Test Catalog 02/19/2023

OU MEDICAL CENTER Laboratory offers a listing of the clinical tests, as well as information regarding turn-around times, specimen requirements, reference ranges, patient requirements, etc in this test catalog. Microbiology testing follows the clinical listing. The test catalog is fully searchable via Adobe Reader's search functions (Adobe 5 or higher required). To search online for a test, click on the Search icon in the Adobe Reader Toolbar area....it looks like a pair of binoculars. Type the word or portion of the word that you would like to find and press the Enter key. Contact the Laboratory at (405)271-3260 to obtain further information.

[11BPGD2U] Ur 11 beta-Prostaglandin F2 alpha

SPECIMEN REQUIRED: Refrigerated or frozen urine (24-hour

(collection)

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect 24-hour urine in "D" container (6N

HCl)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE: < 1382 pg/mg creatinine

METHODOLOGY: Liquid Chromatography-Tandem Mass Spectrometry

(LC-MS/MS) AACT: Enzymatic Colorimetric Assay

CPT: 84150

[17HYD] 17-Hydroxyprogesterone

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PED17HYD for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Age-specific

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Markedly elevated in patients with congenital

adrenal hyperplasia (adrenogenital syndrome) due to 21-hydroxylase deficiency; evaluate hirsutism

and/or infertility; assess certain adrenal or ovarian tumors with endocrine activity

CPT: 83498

[170HPREG] 17-Hydroxy-Pregnenolone

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PED17OHP for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily

REFERENCE RANGE: Male: 10-100 ng/dL

Female: 10-250 ng/dL

METHODOLOGY: Radioimmunoassay (RIA)

CPT: 84143

[1P19QFISH] 1p & 19q IN SITU HYBRIDIZATION

SPECIMEN REQUIRED: Formalin-fixed, paraffin-embedded (FFPE)

tissue biopsy at room temperature or

Unstained slides and H&E

TUBE OR CONTAINER: Slides or blocks

SPECIMEN VOLUME: 6 unstained slides and 1 H&E stained side at

10 uM or tissue block

TEST AVAILABILITY: Daily

METHODOLOGY: In situ hybridization

CPT: 88368 x 4

[21HYDAB] 21-Hydroxylase Antibody

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Separate serum or plasma from cells within 1

hour of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Radioimmunoassay Immunoprecipitation CLINICAL USE: Investigation of adrenal insufficiency; Aid in

the detection of those at risk of developing autoimmune adrenal failure in the future

CPT: 83519

[23DINOR] 11 beta-Prostaglandin F2 alpha

[5FLUOR] 5-Fluorocytosine Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red (no gel) or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

OTHER NAMES: 5FC; 5-Fluorouracil; 5-Fluorocytosine Ancobon

Flucytosine

METHODOLOGY: High Performance Liquid Chromatography/Tandem Mass

Spectrometry (LC-MS/MS)

CPT: 80299

[A1ASTL] Stool Alpha-1-Antitrypsin

SPECIMEN REQUIRED: Frozen stool

TUBE OR CONTAINER: Screw-cap container

SPECIMEN VOLUME: 5 gram MINIMUM VOLUME: 1 gram TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: < 0.62 mg/g

METHODOLOGY: Radial Immunodiffusion

CPT: 82103

[A1GLY] Alpha-1-Acid Glycoprotein

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or gold

CAUSE FOR REJECTION: Gross lipemia that cannot be cleared by

ultracentrifugation

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: 18 years and older: 50-120 mg/dL

METHODOLOGY: Immunologic

CLINICAL USE: Decreased serum levels may be found in association

with malnutrition, severe liver damage, and in women using estrogen-related oral contraceptives. Increased levels have been reported in conditions of acute and chronic inflammation, including myocardial infarction, rheumatoid arthritis, systemic lupus erythematosus, and malignancy

CPT: 82985

[ACCEL] Accelerate Pheno Test

[ACE] Angiotensin Converting Enzyme

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

icteric sample

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours

REFERENCE RANGE: 0-2 years: 18-95 units/L

3-14 years: 22-108 units/L 15 years or older: 14-82 units/L METHODOLOGY: Kinetic

CLINICAL USE: High in sarcoidosis, more often when the disease

is active; assessment of the response of sarcoidosis to corticosteroid therapy

CPT: 82164

[ACECSF] CSF Angiotensin Converting Enzyme

SPECIMEN REOUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile conical/capped tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days REFERENCE RANGE: 0.0-2.5 U/L METHODOLOGY: Spectrophotometry

CLINICAL USE: May be used to support the diagnosis of

sarcoidosis or neurosarcoidosis

CPT: 82164

[ACET] Acetaminophen Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: When evaluating for possible toxicity, a 4 to

6 post-ingestion sample should be drawn Collect a second sample 3 to 4 hours later Specimen Stability: 24 hours-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Therapeutic: 9-16.8 ug/mL

Potentially toxic: >50 ug/mL

OTHER NAMES: Datril; Excedrin; Liquiprin; Paracetamol; Tempra;

METHODOLOGY: HOMOGENEOUS ENZYME IMMUNOASSAY CLINICAL USE: Monitor therapeutic drug levels; evaluate toxicity

CPT: 80329

[ACETAB] Acetylcholine Receptor Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: No isotopes administered 24 hours prior to

venipuncture

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 Days

REFERENCE RANGE: Negative: 0.00-0.24 nmol/L

Borderline: 0.25-0.40 nmol/L

Positive: >0.40 nmol/L

OTHER NAMES: Acetylcholine Receptor Binding Antibody; AChR-

Binding Antibodies; Myasthenia Gravis Antibody METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Aid in the diagnosis of myasthenia gravis

CPT: 83519

[ACETN] Acetone, Quantitative

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: OTHER NAMES: Propanone; Dimethyl ketone

METHODOLOGY: Gas chromatography (GC)

CLINICAL USE: Primary use is to rule out Isopropanol or Acetone

CPT: 82010

[ACHROM] ACHROMATOPSIA/CONE-ROD PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequencing of 36 genes associated with

Achromatopsia, Cone and Cone-Rod Dystrophy

TEST AVAILABILITY: Daily TURNAROUND TIME: 12 weeks

METHODOLOGY: Next Generation Sequencing (NGS)

CPT: 81404; 81406; 81408

[ACIDLAB] Acid Labile Subunit IGF Bind Prot

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: Separate within 45 minutes of collection

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-19 days

METHODOLOGY: Double antibody Radioimmunoassay (RIA)

CPT: 83519

[ACP] Total Acid Phosphatase

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or gold

SPECIAL HANDLING: Allow specimen to clot completely at room

temperature. Transfer 1.5mL serum to an ARUP

Standard Transport Tube (min 0.5mL)

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 0.8 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days REFERENCE RANGE: 0.0-4.3 units/L

METHODOLOGY: Quantitative Enzymatic

CLINICAL USE: Total acid phosphatase (AP) may be useful when

evaluating for prostate cancer, Paget's disease, hyperparathyroidism with skeletal involvement,

and Gaucher's disease since elevations in AP

activity occur in these conditions.

CPT: 84060

[ACPHOS] Leukocyte Acid Phosphatase Stain

[ACTH] Adrenocorticotropic Hormone

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Collect into iced tube and immerse in ice

immediately after collection; plasma should be separated and frozen as soon as possible following collection; Specimen WILL be

be rejected if not submitted on ice

CAUSE FOR REJECTION: Not received on ice

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 Days

REFERENCE RANGE: 7.2 - 63.3 pg/mL (Note: For samples collected

between 7am and 10am)

OTHER NAMES: ACTH; Adrenal Corticotropin; Corticotropin

METHODOLOGY: Electroochemiluminescence immunoassay (ECLIA)

CLINICAL USE: Pituitary function test useful in the differential

diagnosis of Cushing's syndrome, ectopic ACTH

syndrome (eg, carcinoma of lung, islet cell

tumors, carcinoid tumors, medullary carcinoma of thyroid), Addison's disease, hypopituitarism, and

ACTH- producing pituitary tumors

CPT: 82024

[ACYCL] Acyclovir Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.7 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days

OTHER NAMES: Zovirax

METHODOLOGY: High-Pressure Liquid Chromatography (HPLC)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[ADACSF] CSF Adenosine Deaminase

SPECIMEN REQUIRED: Frozen Cerebrospinal fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 0.3 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: 0.0 - 1.5 U/L METHODOLOGY: Spectrophotometry

CPT: 84311

[ADAMTS13AB] ADAMTS13 Antibody

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 2 FULL citrate tubes; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 2 full tubes

1 ml plasma

MINIMUM VOLUME: 1 full tube

0.5 ml plasma

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 days

REFERENCE RANGE:

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) using

microtiter plates coated with a recombinant form

of ADAMTS13 protease

CLINICAL USE: Differentiating congenital from autoimmune

ADAMTS13 deficiency

[ADAPL] Pleural Fluid Adenosine Deaminase

SPECIMEN REQUIRED: Frozen plueral fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 0.3 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days METHODOLOGY: Spectrophotometry

CPT: 84311

[ADAPT] Peritoneal Fld Adenosine Deaminase

SPECIMEN REQUIRED: Frozen peritoneal fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 0.3 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days METHODOLOGY: Spectrophotometry

CPT: 84311

[ADAWB] Adenosine Deaminase

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA), Pink (K2EDTA) or Dark Green

(heparin)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 400-900 mU/g Hgb

METHODOLOGY: Kinetic Spectrophotometry (KS)

REFLEX TEST INFORMATION:

CPT: 84311

[ADB] Anti-DNase-B (Streptococcal)

SPECIMEN REQUIRED: Refrigerated or room temperature serum

TUBE OR CONTAINER: Red or Gold

CAUSE FOR REJECTION: Gross lipemia that cannot be clarified by

ultracentrifugation; severe hemolysis

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 1-6 years: 7-17 years: 18 years and older: OTHER NAMES:

ADB; Streptodornase

METHODOLOGY: Immunonephelometry

CLINICAL USE: Document recent streptococcal infection

CPT: 86215

[ADCL1-2] CUTIS LAXA AUTO DOMIN (ADCL1/2

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: DNA sequencing for genes FBLN5 and ELN

TEST AVAILABILITY: Daily

OTHER NAMES: Cutis laxa, autosomal dominant 1/2 (ADCL1/ADCL2)

METHODOLOGY: Sanger sequencing

CPT: 81479 x 2

[ADE] AUTOIMMUNE DYSAUTONIMIA EVAL

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Interpretation, Anti-Neuronal Nuclear Ab Type 1,

Striational (Striated Muscle) Ab, N-Type Calcium Channel Ab, ACh Receptor (Muscle) Binding Ab, AChR Ganglionic Neuronal Ab, Neuronal (V-G) K+

Channel Ab, GAD65 Ab, P/Q-Type Calcium Channel Ab

TEST AVAILABILITY: Daily

TURNAROUND TIME: 8-12 days

METHODOLOGY: Immunoflourescence antibody (IFA); Radioimmunoassay

(RIA); Enzyme Immunoassay (EIA); Western Blot (WB);

Cell Binding Assay (CBA)

REFLEX TEST INFORMATION: Additional tests may be reflexed with

added charges

CLINICAL USE: Investigating neurological symptoms that appear in

the course of, or after, cancer therapy, and are

not explainable by metastasis CPT: 83519 x 7; 83520; 86256

[ADENCSF] CSF Adenovirus Antibody

SPECIMEN REQUIRED: Refrigerated CSF

TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: < 1:1

METHODOLOGY: Complement fixation (CF)

CPT: 86603

[ADENOAB] Adenovirus Antibody

SPECIMEN REQUIRED: Room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Acute and convalescent specimens must be

submitted on separate test forms SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 Days

REFERENCE RANGE: Negative: < 1:8

METHODOLOGY: Complement fixation (CF)

CLINICAL USE: Serologic diagnosis of adenovirus infection

CPT: 86603

[ADENOVIRUS] ADENOVIRUS/ROTAVIRUS EIA PANEL

SPECIMEN REQUIRED: Stool

TUBE OR CONTAINER: Sterile screw-cap container

SPECIMEN VOLUME: 4mL LIQUID STOOL OR 2g SEMIFORMED STOOL

MINIMUM VOLUME:

TEST INCLUDES: ADENOVIRUS (40/41) AG, ROTAVIRUS AG

TEST AVAILABILITIES: Varies TURNAROUND TIME: 2-3 Days OTHER NAMES: LC187013 METHODOLOGY: Immunoassay

CLINICAL USE: Rapid detection of adenovirus (type 40/41) and

rotavirus from stool specimens of patient suspected of having viral gastroenteritis.

CPT:87301,87425

[ADENPCRQNT] Adenovirus, Quantitative (PCR)

SPECIMEN REQUIRED: Plasma or whole blood, urine, bronchial

lavage/wash, bone marrow, nasal wash,

aspirate or swab, NP swab or aspirate, throat

gargle or tracheal aspirate/wash at room

temperature/frozen

Frozen tissue, CSF, Fecal material,

pericardial fluid or pleural fluid

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container, screw top tube or swab

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of

collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL plasma, CSF, urine, bone marrow, liquid

stool, pleural/pericardial fluid or

respiratory specimens

5 mg tissue

Pea sized formed stool

MINIMUM VOLUME: 4 mL (whole blood)

2 mL plasma

0.5 mL CSF, urine, bone marrow, liquid stool,

pleural, pericardial or respiratory

specimens

TEST AVAILABILITY: Daily

TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[ADH] Anti-Diuretic Hormone

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Plasma must be separated and frozen

within 45 minutes of collection. SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Daily

TURNAROUND TIME: 2-8 days

REFERENCE RANGE: 1.0 - 13.3 pg/mL

OTHER NAMES: Vasopressin; Arginine Vasopressin

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Aid in the diagnosis of urine concentration

disorders, especially diabetes insipidus, syndrome

of inappropriate ADH (SIADH), psychogenic water

intoxication, and syndromes of ectopic ADH

production

CPT: 84588

[ADIP] Adiponectin

SPECIMEN REQUIRED: Refrigeratd serum plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA) SPECIAL HANDLING: Centrifuge and separate immediately

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: Age-specific

METHODOLOGY: Enzyme linked immunosorbent assay (ELISA)

CPT: 83520

[ADRENALAB] Anti-Adrenal Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days

REFERENCE RANGE: Negative: OTHER NAMES: Antiadrenal Cortex Antibodies

METHODOLOGY: Indirect fluorescent antibody (IFA)

CLINICAL USE: Evaluate for adrenal insufficiency and Addison

disease CPT: 86256

[AEA] ANTI-ENTEROCYTE ANTIBODY

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: IgG, IgM and IgA antibody

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 weeks REFERENCE RANGE: Negative

METHODOLOGY: Indirect Immunofluorescence (IFA)

CPT: 83520 x 3

[AFBCFREF] AFB Culture CF Referred to NJ

[AFBSENS] AFB SENSITIVITY TESTING ONLY

[AFBSEQ] AFB Identification

SPECIMEN REQUIRED: Pure culture: plate, slant or blood culture

bottle (pure) at room temperature

TUBE OR CONTAINER: Plate or slant

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

METHODOLOGY: RNA Sequencing

CPT: 87153

[AFBSMREFCF] AFB Smear CF Referred to NJ

[AFPAMNIO] AFP AMNIOTIC FLUID

SPECIMEN REQUIRED: Amniotic fluid at room temperature

TUBE OR CONTAINER: Sterile screw-top tube

SPECIAL HANDLING: Information must include weeks of gestation

SPECIMEN VOLUME: 2.5 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days

METHODOLOGY: Chemiluminescent enzyme immunometric

REFLEX TEST INFORMATION: If AFP is elevated,

Acetylcholinesterase will be added at

an additional cost

CPT: 82106, (if reflexed, 82013 & 83033)

[AFPCSF] CSF Tumor Marker Alpha Fetoprotein

SPECIMEN REQUIRED: Refrigerated or frozen CSF

TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: < 0.5 ng/mL

METHODOLOGY: Immunochemiluminometric Assay (ICMA)

CLINICAL USE: CPT: 86316

[AFPTM] Tumor Marker Alpha Fetoprotein

SPECIMEN REQUIRED: Refrigerated plasma/ serum TUBE OR CONTAINER: Lt Green, Gold or Red

SPECIAL HANDLING: Avoid Hemolysis, Stable 5 days Room Temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: < 8.3 ng/mL

METHODOLOGY: Electrochemiluminescence (ECLIA) CLINICAL USE: Diagnosis of hepatocellular carcinoma

CPT: 82105

[AFPTMFLD] Fluid Tumor Mark Alpha Fetoprotein

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid (peritoneal, pleura

or pericardial only, amniotic fluid is not acceptable); Fluid is not peferred sample

type and will be ran with a disclaimer

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

METHODOLOGY: Quantitative Chemiluminescent Immunoassay

CPT: 83520

[AGNATHIAOTO] AGNATHIA-OTOCEPHALY COMPLEX

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Includes OTX2 and PRRX1

METHODOLOGY: Bi-directional Sanger Sequencing

CLINICAL USE:

Agnathia-otocephaly complex is a lethal malformation disorder that probably occurs early in embryogenesis (Schiffer et al. 2002). Mandibular hypoplasia or agnathia and abnormal ear position or ear fusion are the hallmark findings. Other findings include cleft palate, hypotelorism, microstomia, and the tongue can be small or absent. Variable findings include pulmonary hypoplasia and genitourinary and cardiovascular anomalies. Holoprosencephaly and situs inversus are commonly found in affected infants. Prenatal ultrasound has detected an affected fetus with polyhydramnios, micrognathia, low-set ears, and malformed feet (Akiyama et al. 2013). Affected babies have been reported to die in utero or shortly after birth.

CPT: 81479

[AGPAT2] LIPODYSTROPHY TYPE 1 (AGPAT2)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Congenital Generalized Lipodystrophy (CGL) type 1

via the AGPAT2 gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[AL] Aluminum Level

SPECIMEN REQUIRED: Plasma from Royal Blue or Lavender at room temperature (submit original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA)

Red (no gel) will no longer be accepted

after 10/1/13

SPECIAL HANDLING: Please contact laboratory for correct tube;

Submit original unopened tube or serum or plasma removed from a royal blue-top tube,

and transfer to a certified metal-free

plastic transport tube

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: 0-9 ug/L

Dialysis patients: Potentially toxic: >60 ug/L

METHODOLOGY: Atomic absorption spectrometry (AAS)

CLINICAL USE: Monitor exposure to aluminum

CPT: 82108

[ALAD] AMINOLEVULINIC ACID DEHYDRATAS

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Thursday only

TURNAROUND TIME: 4-6 days

REFERENCE RANGE: Reference ranges have not been established for

patients who are > or =4.0 nmol/L/sec 3.5-3.9 nmol/L/sec (indeterminate)

OTHER NAMES: ALAD (Aminolevulinic Acid Dehydratase) Deficiency

Porphyria (ADP); Porphobilinogen (PBG) Synthase

METHODOLOGY: Enzymatic End point/Spectrofluorometric CLINICAL USE: Confirmation of a diagnosis of aminolevulinic

acid dehydratase deficiency porphyria

CPT: 82657

[ALAG1SEQ] ALAGILLE SEQUENCING (JAG1)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: JAG1 Gene sequencing

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81407

[ALARAN] Urine Delta Aminolevulinic Acid

SPECIMEN REQUIRED: Urine (random), frozen and protected from

light

TUBE OR CONTAINER: Urine container

SPECIAL HANDLING: Acidify w/ 33% glacial acetic acid and

protect from light; pH < 6 SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0-5.4 mg/L

OTHER NAMES: ALA, Random Urine; Aminolevulinic Acid, Random;

Delta-ALA, Random; Delta Aminolevulinic Acid,

Random

METHODOLOGY: Column chromatography; Ehrlich's reagent -

CLINICAL USE: Diagnose porphyrias

CPT: 82135

[ALB] Albumin

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 day - 1 month: 2.9 - 3.6 g/dL

1 month - 9 years: 3.7-5.1 g/dL 10 years + : 3.7 - 5.0 g/dL

METHODOLOGY: DYE BINDING (BCG)

CLINICAL USE: Aid in diagnosis and treatment of numerous

diseases primarily involving the liver and/or

kidneys CPT: 82040

[ALBFL] Body Fluid Albumin

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: DYE BINDING (BCG)

CPT: 82042

[ALBPL] Pleural Fluid Albumin

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: DYE BINDING (BCG)

CPT: 82042

[ALBPT] Peritoneal Fluid Albumin

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: DYE BINDING (BCG)

CPT: 82042

[ALBSF] CSF Albumin

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

days

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days METHODOLOGY: Immunologic

CLINICAL USE: Evaluate the degree of permeability of the

blood-brain barrier

CPT: 82042

[ALC] Plasma/Serum Blood Alcohol

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Prepare draw site with betadine, not alcohol;

collect specimen in SST tube and do NOT open

after centrifuging

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 hours REFERENCE RANGE: < 10 mg/dL

OTHER NAMES: Blood Alcohol Level; Blood Ethanol Level; Ethyl

Alcohol, Blood; EtOH

METHODOLOGY: Enzymatic rate

CLINICAL USE: Diagnose alcohol intoxication and determine

appropriate therapy

CPT: 80320

[ALCI] Isopropyl Alcohol Level, Quant

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Clean venipuncture site well with Betadine

(NOT alcohol) prior to collection. Mix tube

well after collection

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: < 10 mg/dL

OTHER NAMES: Isopropyl alcohol; Isopropanol METHODOLOGY: Gas chromatography (GC)

CPT: 84600

[ALCM] Methyl Alcohol Level, Quant

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: < 10 mg/dL = Not detected

OTHER NAMES: Methanol; Methyl Alcohol; Wood Alcohol; MEOH

METHODOLOGY: Gas chromatography (GC)

CPT: 84600

[ALDO] Aldolase

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, Green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Separate serum or plasma immediately after

coagulation (30 minutes); not removing refrigerated specimens from the clot results

in aldolase levels 12% to 46% higher

CAUSE FOR REJECTION: Hemolysis (red cells contain aldolase)

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 Days

REFERENCE RANGE: 0-30 days: Not established

31 days-1 year: 5.0-11.7 units/L

>1 year: 3.3-10.3 units/L

METHODOLOGY: Kinetic - 340 nm at 37 C CLINICAL USE: Evaluate muscle wasting process

CPT: 82085

[ALDOS] Aldosterone

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Patient preparation: No isotopes administered

24 hours prior to venipuncture. Patient

should be in either supine or upright position

4 hours before and during blood drawing. If

patient is on diuretics, antihypertensive

drugs, cyclic progesterone, estrogens, or

licorice, results for aldosterone may not be

interpretable. Patient should be on a normal

sodium diet 2-4 weeks (135 nmol or

3gm/sodium/day).

SPECIMEN VOLUME: 0.8 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDALDOS for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 Days

REFERENCE RANGE: Adult: Average sodium diet:

Recumbent: 1.0-16.0 ng/dL Standing: 4.0-31.0 ng/dL

Adrenal Vein: 200.0-800.0 ng/dL Pediatric: 1-3 years: 5.0-60.0 ng/dL

4-7 years: 4.0-76.0 ng/dL 8-11 years: 3.0-28.0 ng/dL 12-16 years: 1.0-18.0 ng/dL

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Evaluate patients with hypertension and possible

hyperaldosteronism

CPT: 82088

[ALKGENE] HEREDITARY NEUROBLASTOMA (ALK)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[ALKP] Total Alkaline Phosphatase

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Age specific METHODOLOGY: COLORIMETRIC

CLINICAL USE: Aid in the diagnosis and treatment of liver,

bone, parathyroid and intestinal diseases

CPT: 84075

[ALKPB] Bone Specific Alkaline Phosphatase

SPECIMEN KEQUIKED: Frozen serum TUBE OR CONTAINER: Red or gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Age and gender specific

OTHER NAMES: Bone Alkaline Phosphatase (BAP); Ostase; Skeletal

Alkaline Phosphatase (SALP)

METHODOLOGY: Immunoradiometric assay (IRMA)

CLINICAL USE: Aid in the management of patients with Paget

disease and osteoporosis

CPT: 84080

[ALKPISO] ALKALINE PHOSPHATASE ISOENZYME

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Refrigerate specimen as soon as possible

after collection; for extended storage-freeze

Collect from a fasting patient

Submit 2-0.25 mL Aliquots (frozen)

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 2x 0.25 mL aliquots

TEST INCLUDES: Interpretation of alkaline phosphatase isoenzymes

and total alkaline phosphatase TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Age & gender specific

OTHER NAMES: Alk Phos Isoenzymes; ALP Isoenzymes; Fractionated

Alkaline Phosphatase; Kasahara Isoenzymes; Nag Ao

Isoenzymes; Regan Isoenzymes METHODOLOGY: Electrophoresis

CLINICAL USE: Evaluate the contribution of the isoforms of

Alkaline phos from the liver, bone, and bowel to total ALKP; investigate elevations of ALKP to

determine the tissue of origin

CPT: 84075, 84080

[ALLALPHGAL] Galactose-alpha-1,3-Galactose IgE

SPECIMEN REQUIRED: Refrigerated, frozen or room temperature

serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: < 0.35 kU/L

METHODOLOGY: Quantitative allergen-specific IgE test CLINICAL USE: Defines the etiology of allergic responses to

meat allergens in patients with a delayed onset of symptoms (3 to 6 hours after meal). IgE to

Alpha-Gal is the likely cause of anaphylactic reactions in individuals who develop hypersensitivities to beef, pork and/or lamb as adults

CPT: 86003

[ALLANCH] Anchovy Allergen IgE Antibody

[ALLAPP] Apple Allergen IgE Antibody

SPECIMEN REQUIRED: Room Temp serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.2 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE:

METHODOLOGY: Quantitative allergen-specific IgE test

CPT: 86003

[ALLAV] Avocado Allergen IgE Antibody

[ALLBEK] Kidney Bean Allergen

[ALLBEL] Lima Bean Allergen

[ALLBEP] Pinto Bean Allergen

[ALLCAR] Carrot Allergen

[ALLCHICKP] Chickpea Allergen IgE Antibody

[ALLCOCO] Coconut Allergen IgE Antibody

[ALLEGGWHIGG] Egg White Allergen IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

CPT: 86001

[ALLEGGYIGE] Egg Yolk Allergen IgE Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

CPT: 86003

[ALLGREENBEAN] Green Bean Allergen IgE Antibody

[ALLKIWI] Kiwi Allergen IgE Antibody

[ALLLENT] Lentil Allergen IgE Antibody

[ALLMANG] Mango Allergen IgE Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE:

METHODOLOGY: Thermo Fisher ImmunoCAP

CPT: 86003

[ALLMILKCIGG] Cow's Milk Allergen IgG4 Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

CPT: 86001

[ALLOATIGG] Oat Allergen IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

CPT: 86001

[ALLPEANIGG] Peanut Allergen IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

CPT: 86001

[ALLPEAR] Pear Allergen

[ALLPIN] Pineapple Allergen IgE Antibody

ODECIMENI DECLIDED. D.f.:_____1____

SPECIMEN KEQUIKED: Keirigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE:

METHODOLOGY: Quantitative allergen-specific IgE test

CPT: 86003

[ALLPOTSW] Sweet Potato Allergen IgE Antibody

[ALLSAL] Salmon Allergen IgE Antibody

[ALLSOYIGG] Soybean Allergen IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

CPT: 86001

[ALLSTAPHE] Allergen Specific IgE Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE:

METHODOLOGY: Quantitative allergen-specific IgE test

CPT: 86003

[ALLSULF] Sulfamethoxazole Allergen IgE Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE:

METHODOLOGY: Quantitative allergen-specific IgE test

CPT: 86003

[ALLWAT] Watermelon Allergen

[ALPH1TR] Alpha-1-Antitrypsin

SPECIMEN REQUIRED: Refrigerated serum or plasma; overnight

fasting is preferred

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days REFERENCE RANGE: 90-200 mg/dL

OTHER NAMES: A1-Antitrypsin; A1AT; AAT; Acute Phase Proteins;

Alpha1-Protease Inhibitor

METHODOLOGY: Immunological

CLINICAL USE: Detection of hereditary decreases in the

production of alpha1-antitrypsin (AAT)

CPT: 82103

[ALPH2PL] Alpha-2-Anti-Plasmin

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (citrate)

CAUSES FOR REJECTION: Severe hemolysis; improper labeling;

clotted specimen; specimen diluted with IV fluids; samples thawed in transit;

improper sample type

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily METHODOLOGY: Chromogenic

CPT: 85410

[ALPHA] Alpha Subunit Tumor Marker

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Green(heparin), or Lavender (EDTA)

SPECIAL HANDLING: Separate and freeze immediately

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

REFERENCE RANGE: Males: 20 - 44 years: 45 - 54 years: 55 - 64 years: 65 - 94 years:

Females:

20 - 44 years premenopausal: 45 - 59 years perimenopausal: 60 - 99 years postmenopausal: OTHER NAMES: Pituitary Glycoproteins, Alpha Subunit

METHODOLOGY: Immunochemiluminometric assay (ICMA)

CLINICAL USE: Tumor marker

CPT: 83519

[ALPHAGAL] ALPHA GAL PANEL

[ALPHAL] ALPHA-L-IDURONIDASE (HURLER)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTOA or Yellow (ACD)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 14 days

REFERENCE RANGE: > or = 1.0 nmol/h/mL METHODOLOGY: Fluorometric Enzyme analysis CLINICAL USE: Screen for Hurler Syndrome

CPT: 82657

[ALPHGLUC] Alpha-Glucosidase

SPECIMEN REQUIRED: Fibroblasts at room temperature

TUBE OR CONTAINER: T-25 flasks SPECIMEN VOLUME: 2 flasks TEST AVAILABILITY: Daily

CPT: 82963

[ALPSFL] ALPS BY FLOW CYTOMETRY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must be shipped same day as collected.

Must be received in laboratory by 1:30 PM

Monday-Thursday only SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

OTHER NAMES: Autoimmune Lymphoproliferative Syndrome

METHODOLOGY: Flow Cytometry

CPT: 88184; 88185 x 6

[ALT] Alanine Aminotransferase (ALT/SGPT)

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 12 - 47 U/L

OTHER NAMES: ALT; Glutamic Pyruvate Transaminase; GPT; SGPT METHODOLOGY: ENZYMATIC IFCC MODIFIED WITHOUT PSP

CLINICAL USE: Aid in the treatment and diagnosis of certain

liver and heart diseases

CPT: 84460

[ALTABA] Alternaria tenuis Allergen

SPECIMEN REQUIRED: Refrigerated or room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days REFERENCE RANGE: < 1 mg/L

METHODOLOGY: Enzyme immunoassay (FEIA)

disorders in conjunction with other clinical

findings CPT: 83520

[AMA] Anti-Mitochondrial Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Negative OTHER NAMES: AMA; M2; Mitochondrial Antibody

METHODOLOGY: Indirect Fluorescent Antibody (IFA)

REFLEX TEST INFORMATION: If initial AMA screen is positive, a

semiquantitive titer will be performed

at an additional charge

CLINICAL USE: Differential diagnosis of chronic liver disease

and to provide confirmatory evidence for a diagnosis of primary biliary cirrhosis

CPT: 86256

[AMANT] Amantadine (Symmetrel) Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, or Dark Green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.2 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days

REFERENCE RANGE: 200 - 1000 ng/mL

OTHER NAMES: Symmetrel

METHODOLOGY: Gas Chromatography/Nitrogen Phosphorus Detection

(GC-NPD)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[AMIKL] Random Amikacin Level

SPECIMEN REQUIRED: Serum/plasma at room temp or refrigerated

Stable 8 hrs Room Temp, 48 hrs refrigerated

TUBE OR CONTAINER: Gold, Red, Lt Green, Lavender (EDTA)

Microtainer is acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: None Established

Potentially Toxic: >35.0 ug/mL OTHER NAMES: Amikin

METHODOLOGY: Spectrophotometrics KIMS CLINICAL USE: Therapeutic drug monitoring

CPT: 80150

[AMIKP] Amikacin Level Peak

SPECIMEN REQUIRED: Serum/plasma at room temp or refrigerated

Stable 8 hrs Room Temp, 48 hrs refrigerated

TUBE OR CONTAINER: Gold, Red, Lt Green, Lavender (EDTA)

Microtainer is acceptable

SPECIAL HANDLING: Peak samples should be drawn 60 minutes after

an IM injection, 30 minutes after the end of a 30 minute IV infusion, or immediately after a

60 minute infusion

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: Therapeutic Peak: 20.0-25.0 ug/mL

Potentially toxic: peak: >35.0 ug/mL

OTHER NAMES: Amikin

METHODOLOGY: Spectrophotometrics KIMS CLINICAL USE: Therapeutic drug monitoring

CPT: 80150

[AMIKT] Amikacin Level Trough

SPECIMEN REQUIRED: Serum/plasma at room temp 8 hrs

or refrigerated 48 hrs

TUBE OR CONTAINER: Gold, Red, Lt Green, Lavender (EDTA)

Microtainer is acceptable

SPECIAL HANDLING: Trough (valley) levels should be collected

just prior to the administration of the next

dose of Amikacin

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: Therapeutic trough; 5.0-10.0 ug/mL

Potentially toxic: trough: >10.0 ug/mL

OTHER NAMES: Amikin

METHODOLOGY: Spectrophotometrics KIMS CLINICAL USE: Therapeutic drug monitoring

CPT: 80150

[AMM] Ammonia

SPECIMEN REQUIRED: Plasma on ice

TUBE OR CONTAINER: LAVENDER (EDTA)

SPECIAL HANDLING: Place specimen on ice immediately after

collection.

Reject if not received on ice. STABILITY: 30 minutes on ice

3 days when plasma is separated and frozen

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 days-1 month: 103-174 umol/L

1 month-13 years: 31-80 umol/L

14 years +: 15- 50 umol/L

OTHER NAMES: Blood Ammonia; Blood NH3; NH3; NH4

METHODOLOGY: ENZYMATIC WITH GLUTAMATE DEHYDROGENASE

CLINICAL USE: Aid in the diagnosis of hepatic encephalopathy

and hepatic coma in the terminal stages of liver cirrhosis, hepatic failure, acute and subacute

necrosis, and Reye's syndrome

CPT: 82140

[AMOXP] AMOXAPINE (ASENDIN) PANEL

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin) SPECIAL HANDLING: Do NOT use gel barrier tubes

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Amoxapine and its metabolite

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

REFERENCE RANGE: 200 - 400 ng/mL

OTHER NAMES: Asendin

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[AMPARABCSF] CSF AMPA-Receptor Antibody

SPECIMEN REQUIRED: Refrigerated (preferred) or frozen CSF

TUBE OR CONTAINER: Sterile CSF tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Negative

OTHER NAMES: a-Amino-3-Hydroxyl-5-Methyl-4-Isoxazole-Propionate

Receptor Antibody

METHODOLOGY: Indirect Fluorescent Antibody (IFA)

CLINICAL USE: Serological marker of autoimmune encephalopathy

and of a patient's immune response to cancer. This autoantibody is usually accompanied by sub-

acute neurological symptoms and signs, and is not

found in healthy subjects.

CPT: 86255

[AMPHAB] AMPHIPHYSIN ANTIBODY

SPECIMEN KEQUIKED: Kerrigerated or Irozen serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks REFERENCE RANGE: Negative METHODOLOGY: ImmunoBlot

CPT: 84181

[AMPHOB] Amphotericin B Level

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

OTHER NAMES: Fungilin; Fungizone; Abelcet; Amphocil

METHODOLOGY: High-Pressure Liquid Chromatography (HPLC)

CPT: 80299

[AMPR] HIV Amprenavir Resistance

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

METHODOLOGY: High-Pressure Liquid Chromatography (HPLC)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[AMY] Amylase Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: Adult: 2 mL

Pediatric: 0.6 mL

MINIMUM VOLUME: Adult: 1 mL Pediatric: 0.5 mL or 1/2 microtainer TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 26 - 93 U/L

METHODOLOGY: Enzymatic Colorimetric

CLINICAL USE: Diagnosis and treatment of pancreatitis

CPT: 82150

[AMYAS] Body Fluid Amylase

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 82150

[AMYFL] Body Fluid Amylase

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 82150

[AMYLPR] Amyloid Beta-Protein

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate and freeze plasma as soon as

possible

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 ml TEST AVAILABILITY: Daily

REFERENCE RANGE: 20 - 80 pg/mL

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Detection of Amyloid B-Protein which causes

vascular and cerebral plaque formation

CPT: 83519

[AMYPL] Pleural Fluid Amylase

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 82150

[AMYPT] Peritoneal Fluid Amylase

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 82150

[AMYU] Urine Random Amylase

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CLINICAL USE: Work-up for abdominal pain, epigastric

tenderness, nausea, and vomiting

CPT: 82150

[ANA] Anti-Nuclear Antibody Screen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: 24-48 hours REFERENCE RANGE: Negative

OTHER NAMES: Anti-Centromere B; ANA

METHODOLOGY: Enzyme-linked immunoassay (ELISA)

REFLEX TEST INFORMATION: A positive ANA screen will reflex an

ANA titer at an additional charge

CLINICAL USE: Screening test for lupus and other rheumatic

autoimmune diseases, including autoimmune

thyroid and liver diseases

CPT: 86038

[ANAFL] Body Fluid Anti-Nuclear Antibody

SPECIMEN REQUIRED: Frozen body fluid (CSF, pleural, joint or

pericardial fluid)

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Negative

METHODOLOGY: Indirect Immunofluorescence (IFA)

REFLEX TEST INFORMATION: A positive result refexes titer test

CPT: 86038

[ANAOMR] Anti-Nuclear Antibody Screen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday REFERENCE RANGE: Negative or < 40

METHODOLOGY: Indirect fluorescent antibody (IFA)

REFLEX TEST INFORMATION: A positive ANA screen will reflex an

ANA titer at an additional charge

CLINICAL USE: Screening test for lupus and other rheumatic

autoimmune diseases, including autoimmune

thyroid and liver diseases

CPT: 86038

[ANAPAT] Anti-Nuclear Antibody Pattern

[ANAPL] Pleural Fluid Anti-Nuclear Antibody

SPECIMEN REQUIRED: Frozen fluid

TUBE OR CONTAINER: Gold SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Negative: < or = 1:40

METHODOLOGY: Enzyme-linked immunoassay (ELISA)

REFLEX TEST INFORMATION: A positive ANA will reflex an ANA

titer at an additional charge

CLINICAL USE: Detect antibodies to nuclear antigens

CPT: 86038

[ANASY] Body Fluid Anti-Nuclear Antibody

SPECIMEN REQUIRED: Refrigerated synovial fluid

TUBE OR CONTAINER: Gold SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Negative: < or = 1:40

METHODOLOGY: Enzyme-linked immunoassay (ELISA) CLINICAL USE: Detect antibodies to nuclear antigens

CPT: 86038

[AND] 3A Androstanediol Glucuronide

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA) SPECIAL HANDLING: Separate and freeze within one hour of

collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.7 mL

TEST INCLUDES:

TEST AVAILABILITY: Daily

TURNAROUND TIME: 4-14 days

REFERENCE RANGE: 0 - 10 years: Not established

Adults: Male: 112 - 1046 ng/dL

Female: 11 - 249 ng/dL

METHODOLOGY: High-pressure liquid chromatography tandem mass

spectrometry(HPLC/MS-MS)

CPT: 82154

[ANDR] Androstenedione

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: No isotopes should be administered 24 hours

prior to venipuncture

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDANDRO for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 Days

REFERENCE RANGE: Age and gender specific OTHER NAMES: Delta4-Androstene,3,17-dione

METHODOLOGY: High pressure liquid chromatography/tandem mass

spectrometry (HPLC/MS-MS)

CLINICAL USE: Evaluation of androgen production in hirsute

females; less useful in evaluation of other

aspects of virilization

CPT: 82157

[ANGIO] Angiotensin II

SPECIMEN REQUIRED: Frozen plasma with Trasylol

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Collect specimen in chilled EDTA (lavender)

tube. Add 0.25 mL Trasylol (to be performed

in lab); separate and freeze plasma SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Radioimmunoassay (RIA)

CPT: 82163

[ANKH] ANKH GENE SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

OTHER NAMES: Craniometaphyseal dyplasia, autosomal dominant

(CMDD) or Chondrocalcinosis 2 (CCAL2) via ANKH

gene sequencing

METHODOLOGY: Sanger sequencing

[ANT] Antimony

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Royal blue (EDTA)

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: 0-6 ug/L

METHODOLOGY: Inductively Coupled Plasma/Mass Spectrometry

(ICP/MS)

CLINICAL USE: Exposure monitoring

CPT: 83018

[ANTICHROM] Chromatin Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

OTHER NAMES: Antibodies to LE Cell Phenomenon METHODOLOGY: Multiplex flow immunoassay

CLINICAL USE: Help diagnose drug-induced lupus (DIL) and

systemic lupus erythematosus (SLE)

CPT: 83516

[AOS] ADAMS-OLIVER SYNDROME PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: DNA sequencing for ARHGAP31, DOCK6, EOGT,

NOTCH1 and RBPJ genes TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks METHODOLOGY: Sanger sequencing

CPT: 81407; 81479 x 4

[APOA] Apolipoprotein A-1

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Serum is stable for 72 hours refrigerated. If

longer storage is required, freeze specimen;

patient must be fasting 12-14 hours SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: Male: 0 - 14 days: 62-91 mg/dL

15 days - 11 months: 53-175 mg/dL

1 - 5 years: 80-164 mg/dL 6 to 12 years: 107-175 mg/dL > 12 years: 101-178 mg/dL

Female: 0 to 14 days: 71-97 mg/dL 15 days to 11 months: 53-175 mg/dL

1 to 5 years: 80-164 mg/dL 6 to 80 years: 116-209 mg/dL > 80 years: 114-214 mg/dL

OTHER NAMES: A-1 Apolipoprotein; Alpha Apolipoprotein; Apo A-1

METHODOLOGY: Immunologic

CLINICAL USE: Comprises 60% to 70% of the protein content of HDL

Apo A-I serves as an activator of LCAT which is involved in the transport of cholesterol from peripheral tissues to the liver where it is

degraded CPT: 82172

[APOB] Apolipoprotein B

SPECIMEN REQUIRED: Frozen Serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Stable up to 72 hours refrigerated. Freeze if

storage for more than 3 days is expected; patient must be fasting for 12-14 hours

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: 0 days - 14 days: 9-67 mg/dL

15 days to 11 months: 19-123 mg/dL

1 - 5 years: 41-93 mg/dL >5 years: Male: 52-135 mg/dL

Female: 54-133 mg/dL

METHODOLOGY: Immunologic

OTHER NAMES: Apo B; Apo B100; Beta Apolipoprotein

CLINICAL USE: LDL and its major protein, apolipoprotein B, play

an essential role in lipid transport and

metabolism CPT: 82172

[APOL1] Apolipoprotein L1 Risk Variants

SPECIMEN REQUIRED: Plasma (EDTA) at Room Temperature

TUBE OR CONTAINER: Lavender top (EDTA)

SPECIMEN VOLUME: 0.5mL MINIMUM VOLUME: 0.3mL TEST INCLUDES: APOL1

TEST AVAILABILITY: Varies, not stated.

TURNAROUND TIME: 6-9 days

REFERENCE RANGE: Detailed report will be provided stating

Normal/Abnormal depending on the

absence/presence of APOL1 gene risk variants.

OTHER NAMES: APOL1 / LC167570

METHODOLOGY: Liquid Chromatography: Tandem mass spectrometry

(MS/MS).

CLINICAL USE: Recently, the association of the apolipoprotein L1

(APOL1) variants (G1 and G2) has been reported as a possible mechanism for the increased presence of end stage renal disease (ESRD) in the African / American (AA) population. Identification of prospective donors of AA heritage that have only a single copy or do not carry either APOL1 variant

(i.e. G1:G1, G1:G2, G2:G2) could increase the number of available donors for patients that are

waiting for a kidney.

CPT: 82542

[AQP2] NEPRHOGEN DIAB INSIP(NDI) AQP2

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Nephrogenic Diabetes Insipidus (NDI) via the AQP2

Gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81404

[ARG] Arginase Deficiency

SPECIMEN REQUIRED: Refrigerated whole blood (ship on wet ice)

TUBE OR CONTAINER: Yellow (ACD)

SPECIAL HANDLING: Specimen must be received in laboratory by

1:30 pm, Monday through Thursday only; Specimen must arrive at performing lab within

48 hours of collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 7 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2 weeks

REFERENCE RANGE: 2.0 - 7.0 umol/hr/mg Hgb

METHODOLOGY: Spectrophotometry

CPT: 82657

[ARHGAP31] ADAMS-OLIVER TYPE 1 (ARHGAP31)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[ARIP] Aripiprazole (Abilify) Level

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Lavender (EDTA) or Dark green (heparin) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-9 days

OTHER NAMES: Abilify

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 82542

[ARS] Arsenic

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) or Lav (EDTA)

Lavender (EDTA) temporarily accepted with possible disclaimer per Lab Corp

SPECIAL HANDLING: Please contact laboratory for correct tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TURNAROUND TIME: 3 Days REFERENCE RANGE: 2-23 ug/L

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor recent or acute exposure to arsenic

CPT: 82175

[ARSA] ARYLSULFATASE A SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: Metachromatic Leukodystrophy via ARSA Gene

Sequencing

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81405

[ARSEGENE] CHONDRODYSPL PUNCTATA 1 (ARSE)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Chondrodysplasia Punctata 1, X-Linked Recessive

(CDPX1) via the ARSE Gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[ARSH] Hair Arsenic

SPECIMEN REQUIRED: Bundle of hair TUBE OR CONTAINER: Plastic container

SPECIAL HANDLING: Bundle, cut at roots, wrap with twist tie at

root end

SPECIMEN VOLUME: 500 mg Hair (pencil-thick segment)

MINIMUM VOLUME: 100 mg TEST AVAILABILITY: Daily TURNAROUND TIME: 7-12 days

METHODOLOGY: Inductively Coupled Plasma/Mass Spectrometry

(ICP/MS)

CLINICAL USE: Exposure monitoring

CPT: 82175

[ARYLA] Urine Arylsulfatase A

SPECIMEN REQUIRED: Refrigerated aliquot from a 24-hour urine

collection

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect urine in 24 hour container with no

preservative; refrigerate during collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

REFERENCE RANGE: >/= 19 nmol/h/mL METHODOLOGY: Colorimetric, Kinetic

CLINICAL USE: Aid in diagnosis of Lysosomal Storage Disease

CPT: 82657

[ASAH1] FARBER LIPOGRANULOMATOS-ASAH1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Farber Lipogranulomatosis via ASAH1 gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[ASO] Anti-Streptolysin O Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red or Light Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: 0-4 years: < 117 IU/mL

5-17 years: < 229 IU/mL > 18 years: < 234 IU/mL OTHER NAMES: ASO

METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Document exposure to streptococcal streptolysin O

CPT: 86060

[ASPAB] ASPERGILLUS AB PANEL

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Aspergillus fumigatus, flavus, and niger

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days

METHODOLOGY: Double immunodiffusion (DID)

CLINICAL USE: Confirm the presence of precipitation antibodies

to Aspergillus CPT: 86606 x 3

[ASPAG] ASPERGILLUS GALACTOMANNAN AG

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme Immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of Invasive Aspergillosis

CPT: 87305

[ASPAGCSF] CSF Aspergillus Antigen (EIA)

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Negative METHODOLOGY: Enzyme Immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of Invasive Aspergillosis

CPT: 87305

[ASPAMINWBC] Aspartylglucosamine Aminohydrolase

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily

CPT: 82657

[AST] Aspartate Amino Transf (AST/SGOT)

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 day - 30 days: 45-175 U/L

31 day - 10 year: 19 - 72 U/L 11 Year + : 19 - 46 U/L

OTHER NAMES: AST; GOT; Serum Glutamic Oxaloacetic Transaminase;

SGOT

METHODOLOGY: IFCC, Enzymatic CLINICAL USE: Liver function test

CPT: 84450

[ASXL1] ASXL1 MUTATION ANALYSIS

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Use cold pack for transport, making sure cold

pack is not in direct contact with specimen. Ship same day as drawn whenever possible; specimens SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 2 mL

TEST INCLUDES: sequencing of the majority of exons 13 and 14 of

ASXL1, corresponding to amino acids 406-1396 TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2 weeks

METHODOLOGY: Bi-directional Sequencing

CPT: 81479

[AT1R] ANTI-ANGIOTENSIN II TYPE 1 AB

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Must arrive at performing lab within 10 days

of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme linked immunosorbent assay (ELISA)

CLINICAL USE: Solid organ post transplant

CPT: 83516

[AT3FUN] Functional Antithrombin III

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 2 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 2 full tubes

Testing specimen: 2 transport tubes with 1 ml

plasma each

MINIMUM VOLUME: 1 full tube

Testing specimen: 2 transport tubes with 0.5 ml

plasma each

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 80-125%

OTHER NAMES: Antithrombin III Activity; AT3 Activity; AT III

Activity; Factor Xa Inhibitor; Heparin Cofactor

Activity: Serine Protease Inhibitor

REFLEX TEST INFORMATION: If result is below normal, Antithrombin

3 Antigen will be reflexed at an

additional charge

CLINICAL USE: Confirmation and characterization of congenital

AT deficiency CPT: 85300

[ATAZ] HIV Atazanavir Resistance

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Serum must be separated within 45 minutes

Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

REFERENCE RANGE: 0.05 - 10.00 mcg/mL

OTHER NAMES: Reyataz

METHODOLOGY: High-Pressure Liquid Chromatography (HPLC)

CLINICAL USE: HIV monitor

CPT: 80299

[ATEN] Atenolol Level

SPECIMEN REQUIRED: Room temperature serum or plasma

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

METHODOLOGY: High Performance Liquid Chromatography/Mass

Spectrometry (LC/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT:

[AZA] Azathioprine (Imuran) Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red or Dark Green (Heparin)

SPECIAL HANDLING: The use of serum separator tubes is not

recommended

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-9 days REFERENCE RANGE: < 1000 ng/mL

OTHER NAMES: Imuran; 6-mercaptopurine metabolite

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection (HPLC-UV)

CLINICAL USE: Antineoplastic drug therapy

CPT: 80299

[B2GLYIGA] Anti-beta-2-Glycoprotein I IgA Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: < 20 units

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) to

detect antibodies binding to a microtiter plate coated with purified 2-glycoprotein 1 antigen

CLINICAL USE: Assess the risk of thrombosis in patients who may

be at risk for antiphospholipid syndrome (APS). This test should be used in conjunction with

current traditional anticardiolipin and

anticoagulant tests

CPT: 86146

[B2MIC] Beta-2-Microglobulin

SPECIMEN REQUIRED: serum or plasma(Heparin) TUBE OR CONTAINER: Red, Gold or Light Green

CAUSE FOR REJECTION: Specimens other than serum or plasma

Do not use for Body Fluid testing. SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: 0.5 - 2.5 mg/L METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Evaluate renal disease; tumor marker for certain

types of malignancies

CPT: 82232

[B2MICCSF] CSF Beta-2-Microglobulin

SPECIMEN REQUIRED: Refrigerated CSF

TUBE OR CONTAINER: CSF tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Radioimmunassay (RIA)

CLINICAL USE: Elevated concentrations of CSF B2M correlate with

clinical involvement (tumor cells, increased

protein or both) of CNS in patients with lymphoma

and leukemia CPT: 82232

[BAC] Baclofen Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, or Dark Green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days

REFERENCE RANGE: 100 - 400 ng/mL

OTHER NAMES: Lioresal

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[BARTAB] AB BARTONELLA

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: IgG and IgM to B. henselae & B. quintana

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

REFERENCE RANGE: Negative

OTHER NAMES: Cat Scratch Disease Antibody (CSD); Rochalimaea

METHODOLOGY: Indirect Fluorescent antibodies (IFA) CLINICAL USE: Aid in diagnosis of Cat Scratch Disease

CPT: 86611 x 4

[BARTH] BARTH SYNDROME (TAZ G4.5)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

REFERENCE RANGE: No mutation detected

METHODOLOGY: Bi-directional sequence analysis CLINICAL USE: Identify mutations in the G4.5 gene

CPT: 81406

[BBS6MKKS] BARDET-BIEDL-BBS6/MKKS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

OTHER NAMES: McKusick Kaufman syndrome (MKKS) or Bardet Biedl

syndrome type 6 (BBS6)

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[BCDGP] CDG: N-GLYCAN & CDT PANEL

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red (no gel) or Dark Green (heparin)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2 weeks

REFERENCE RANGE:

OTHER NAMES: Carbohydrate Deficient Glycoprotein syndrome;

Congenital Disorders of Glycosylation (CDG)

METHODOLOGY: Matrix-Assisted Laser Desorption/Ionization-Time

of flight/Time of flight (MALDI-TOF/TOF) and

Mass Spectrometry (MS) CPT: 82373 x 2; 83789; 84375

[BCELLIMM] B-CELL IMMUNODEFICIENCY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (Heparin) or Lavender (EDTA) SPECIAL HANDLING: Specimen must be analyzed within 48 hours

(heparin) or 30 hours (EDTA) of collection

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 3 mL (pediatric)

TEST INCLUDES: Total Immunoglobulins; % IgA, IgD, IgG, IgM, CD19

and HLA-DR

TEST AVAILABILITY: Monday-Thursday (must arrive in the lab

before 2:30 pm

TURNAROUND TIME: 2 days METHODOLOGY: Flow Cytometry

CLINICAL USE: Measures circulating B-cells (CD19), their

surface immunoglobulins (Total Ig, IgG, IgD, IgM and IgA), and a common HLA class II antigen

CPT: 86356 x 7

[BCELLPCR] B-CELL GENE REARRANGEMENTS PCR

SPECIMEN REQUIRED: Whole blood or bone marrow at room

temperature

(Other acceptable specimens: Fresh frozen tissue or paraffin-embedded tisue at room

temperature)

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL (whole blood)

3 mL (bone marrow)

MINIMUM VOLUME: 1 mL (whole blood)

1 mL (bone marrow)

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 6-8 days

OTHER NAMES: Immunoglobulin (IgH & IgK) Gene Rearrangement;

Immunoglobulin (IgH & IgK) Clonality

METHODOLOGY: Polymerase Chain Reaction (PCR)/Capillary

Electrophoresis CPT: 81261; 81264

[BCRKIN] BCR/ABL KINASE DOMAIN MUTATION

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Must be received in the lab by 1:30 pm Monday

through Friday; must be shipped same day as

collected

SPECIMEN VOLUME: 5 mL (whole blood)

3 mL (bone marrow)

MINIMUM VOLUME: 1 mL (whole blood)

1 mL (bone marrow)

TEST INCLUDES: Detection of all common mutations, including

T315I

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: 10-14 days

REFERENCE RANGE: No mutation detected

OTHER NAMES: ABL1 Mutation Analysis for Resistance to Imatinib

Mesylate; Gleevec Resistance Mutation Analysis;

Imatinib Mesylate Resistance Analysis

METHODOLOGY: Massively Parallel sequencing (NextGen)

CPT: 81403

[BCRQNTMAJ] BCR/abl Major (Quant PCR)

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must be received in the lab within 24 hours

of collection

SPECIMEN VOLUME: 5 mL (whole blood)

3 mL (bone marrow)

MINIMUM VOLUME: 1 mL

TEST INCLUDES: Quantification of BCR-ABL1 transcript levels of

(p210) fusion transcripts

TURNAROUND TIME: 5-8 days

REFERENCE RANGE: No mutation detected

METHODOLOGY: Quantitative Reverse Transcriptase Polymerase

chain reaction (PCR)

CLINICAL USE: Used to quantify BCR-ABL1 transcript levels of

(p210) fusion transcripts. This BCR-ABL1 fusion

transcripts is found in patients with CML

CPT: 81206

[BCRQNTMIN] BCR/abl Minor (Quant PCR)

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must be received in the lab within 24 hours

of collection

Ship direct to ARUP; must be received within

48 hours (refrigerated)

Same Day shipout required- must be received

in lab by 1300.

SPECIMEN VOLUME: 5 mL (whole blood)

3 mL (bone marrow)

MINIMUM VOLUME: 1 mL

TEST INCLUDES: Quantification of BCR-ABL1 transcript levels of

(p190) fusion transcripts

TURNAROUND TIME: 5-8 days

REFERENCE RANGE: No mutation detected

METHODOLOGY: Quantitative Reverse Transcriptase Polymerase

chain reaction (PCR)

CLINICAL USE: Used to quantify BCR-ABL1 transcript levels of

(p190) fusion transcripts. This BCR-ABL1 fusion transcript is found in patients with Philadelphia-

positive ALL CPT: 81207

[BCTPCR] Bacterial Detection (PCR)(LAB)

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[BCTSEQ] Organism ID (Sequencing)

SPECIMEN REQUIRED: Pure culture: plate, slant or blood culture

bottle (pure) at room temperature

TUBE OR CONTAINER: Plate or slant

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days METHODOLOGY: RNA Sequencing

CPT: 87153

[BCUB] Biofire Blood Culture ID

[BCUCDIFF] C. difficile GDH AG and Toxins

[BCUE] Ebola Zaire Virus RT-PCR

[BCWKUP] BC Culture Workup

[BENZ] Benzene

SPECIMEN REQUIRED: Refrigerated or frozen whole blood TUBE OR CONTAINER: Dark green (heparin-preferred)

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 7 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: Environmental exposure: none detected

METHODOLOGY: Headspace Gas Chromatography/Flame Ionization

Detection (GC-FID)

CLINICAL USE: Monitor exposure to benzene

CPT: 84600

[BENZOD] Benzodiazepines

SPECIMEN REQUIRED: Refrigerated or frozen whole blood

TUBE OR CONTAINER: Lavender (EDTA), Gray (NA fluoride) or Dark

green (heparin)

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Immunoassay (screen); Liquid chromatography/tandem

mass spectrometry (LC/MS-MS); Gas chromatography/

Electron Capture Detection (GC-EC)

REFLEX TEST INFORMATION: If detected, reflexed confirmation

CPT: 80301

[BENZT] Benztropine Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: 5.0 - 25.0 ng/ml

OTHER NAMES: Cogentin

Methodology: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[BETGLU] GLUCOCEREBROSIDASE/WBC

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Collect specimen Monday-Thursday only; must

arrive at performing lab within 4 days

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 4 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 9-15 days

REFERENCE RANGE: 7.5-14.5 nanomoles/hr/mg protein

METHODOLOGY: Fluorometric

CLINICAL USE: Aid in diagnosis of Gaucher disease

CPT: 82963

[BETHYD] B-Hydroxybutyrate

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold, or Lt Green(heparin)

SPECIAL HANDLING: Separate serum/plasma from cells within 2

hours of collection. Stable 7 days at 2-8

degrees C.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 0.02 - 0.27 mmol/L

METHODOLOGY: Enzymatic

CLINICAL USE: Monitor the presence and degree of ketosis

CPT: 82010

[BETTRAN] Beta-2-Transferrin

SPECIMEN REQUIRED: Refrigerated body fluid (nasal, otic....)

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL fluid

TEST AVAILABILITY: Monday-Thursday only

TURNAROUND TIME: 2-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Immunofixation Electrophoresis

CLINICAL USE: Detection of spinal fluid in body fluids such as

ear or nasal fluid CPT: 86335

[BFTCC] Body Fluid Total Cells Counted

[BH4NCSF] TETRAHYDROBIOPTERIN/NEOPTERIN

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Special collection containers; contact Lab SPECIAL HANDLING: Must be in Lab Monday-Thursday by 2:00 pm

SPECIMEN VOLUME: 0.5 mL each tube

TEST INCLUDES: Tetrahydrobiopterin (BH4) and Neopterin

TEST AVAILABILITY: Monday-Thursday only

TURNAROUND TIME: 1 week

OTHER NAMES: Tetrahydrobiopterin/neopterin

CPT: 82542 x 2

[BHENDNA] Bartonella henselae DNA (PCR)

SPECIMEN REQUIRED: Whole blood at room temperature or

Refrigerated CSF

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD) or Sterile

container

SPECIMEN VOLUME: 5 mL (whole blood)

0.5 mL (CSF)

MINIMUM VOLUME: 0.5 mL (whole blood)

0.2 mL (CSF)

TEST AVAILABILITY: Daily

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Detects the presence of Bartonella sp. DNA

CPT: 87471

[BILAF] Amniotic Fld Bilirubin OD 450 Scan

SPECIMEN REQUIRED: Amniotic fluid (refrigerated, frozen or room

temperature)

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Centrifuge and transport immediately;

Protect specimen from exposure to light

Include weeks of gestation SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 3.5 mL

TEST INCLUDES: Delta OD value at 450 nm TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 8 hours

REFERENCE RANGE: Varies with gestational age

OTHER NAMES: Amniotic Fluid Bilirubin; Delta OD, Amniotic Scan;

Liley Scan; OD 450

METHODOLOGY: Spectrophotometry

CLINICAL USE: Evaluate cases of suspected maternal-fetal blood

incompatibility, hemolytic disease of the newborn

CPT: 82143

[BILEACT] Total Bile Acids

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Patient should be fasting (8 hours)

CAUSES FOR REJECTION: Plasma sample

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: Male: 0-1 year: Not established

2-12 years: 5.6-27.6 umol/L >12 years: 3.8-20.9 umol/L

Female: 0 days-1 year: Not established

2-5 years: 7.5-40.4 umol/L 6-50 years: 4.7-24.5 umol/L >50 years: 4.1-23.9 umol/L

Pregnant female: 15-45 years: 3.7-14.5 umol/L

OTHER NAMES: Glyco and Taurochenodeoxycholic Acid; Cholyglycine

Bile salts

METHODOLOGY: Enzymatic

CLINICAL USE: Evaluate the enterophepatic cycle consisting of

the biliary system, intestine, portal circulation,

and hepatocytes CPT: 82239

[BILEACTU] Urine Bile Acid

SPECIMEN REQUIRED: Frozen urine (random)

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 4 tubes (24 mL) MINIMUM VOLUME: 1 tube (2 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks OTHER NAMES: Bile Salts urine

METHODOLOGY: Mass Spectrometry (MS)

CPT: 82239

[BILEFR] BILE ACIDS FRACTIONATED

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Patient should be fasting (8 hours); Separate

serum & freeze within 2 hours of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL

TEST INCLUDES: Cholic acid, Chenodeoxycholic acid, Ceoxycholic

acid, Ursodeoxycholic acid and total bile acids

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days

METHODOLOGY: High-pressure liquid chromatography/tandem mass

spectrometry (HPLC/MS-MS)

CLINICAL USE: May be measured to investigate obstructive

cholestasis in pregnancy; bile acids are required for cholesterol absorption, fat-soluble vitamin absorption, and to provide resistance to

overgrowth of intestinal bacteria. Bile acid

levels may be reduced or elevated due to various

genetic defects. CPT: 82542

[BILT] Total Bilirubin

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Light Green (Li heparin), Gold or Red

SPECIAL HANDLING: Protect specimen from light

Specimen Stability: 1 day-room temp SPECIMEN VOLUME: Adult: 1.0 mL

Pediatric: 0.6 mL

MINIMUM VOLUME: Adult: 0.5 mL Pediatric: 0.5 mL or 1/2 microtainer TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 day: 0.9 - 8.8 mg/dL

1 month-adult: 0.3 - 1.1 mg/dL

METHODOLOGY: Colorimetric Diazo

CLINICAL USE: Evaluate liver and biliary disease

CPT: 82247

[BILTC] Cord Blood Total Bilirubin

[BIO] Biotin Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Lavender (EDTA) SPECIAL HANDLING: Do not collect in gel barrier tube

ORDERING MODULE: LAB SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: 0.00 - 0.83 ng/mL

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS) CPT: 84591

[BIOP] Urine Pterins

SPECIMEN REQUIRED: Urine (random) or urine spot on PKU card

TUBE OR CONTAINER: Sterile Urine container

SPECIAL HANDLING: add 5mcg of Ascorbic acid as perservative.

Protect from Light

SPECIMEN VOLUME: 5ml MINIMUM VOLUME:

TEST AVAILABILITY: Monday - Friday 0800-1700

TURNAROUND TIME: REFERENCE RANGE: METHODOLOGY: CLINICAL USE: CPT: 82542

[BIOT] BIOTINIDASE DEFICIENCY

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 30 minutes of venipuncture;

Do NOT use this test for biotin (vitamin B7)

testing

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

OTHER NAMES: Biotinidase Deficiency; Multiple Carboxylase

Deficiency, Late Onset

METHODOLOGY: Determination of enzyme activity with

biotin-4-aminobenzoic acid

CLINICAL USE: Diagnosis of biotinidase deficiency. This test is

appropriate for the confirmation of newborn screening positive biotinidase deficiency results

CPT: 82261

[BIS] Bismuth Level

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will be temporarily accepted with a possible disclaimer due to shortage

SPECIAL HANDLING: Please contact laboratory for correct tube

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Normal: METHODOLOGY: Inductively coupled plasma-mass

spectrometry (ICP-MS)

CLINICAL USE: Monitor exposure to bismuth

CPT: 83018

[BISU] Urine Bismuth

SPECIMEN REQUIRED: Urine (random or 24-hour) at room

temperature

TUBE OR CONTAINER: Urine container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Environmental exposure: 0.3-4.6 g/L METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor exposure to bismuth

CPT: 83018

[BKVPCRB] BK Virus DNA Quantitative (PCR)

SPECIMEN REQUIRED: Plasma or whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD) SPECIAL HANDLING: Specimens at room temperature must be

received at performing lab within 4 days of collection; Freeze if time exceeds 4 days SPECIMEN VOLUME: 5 mL (whole blood)

2 mL (plasma)

MINIMUM VOLUME: 3 mL (whole blood)

1 mL (plasma)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not Detected OTHER NAMES: Polyoma virus-blood

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[BKVPCRUR] BK Virus DNA Quantitative (PCR)

SPECIMEN REQUIRED: Urine at room temperature or frozen TUBE OR CONTAINER: Clear/Red Urine tube (no additive) SPECIAL HANDLING: Specimens at room temperature must be

received at performing lab within 4 days of collection; Freeze if time exceeds 4 days SPECIMEN VOLUME: 1 tube (2 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not Detected OTHER NAMES: Polyoma virus-urine

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[BL] BETA-LACTAMASE TEST

[BLASTAB] AB BLASTOMYCES DERMATITIDIS

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days

METHODOLOGY: Complement Fixation (CF) & Immunodiffusion

CPT: 86612 x 2

[BMEPCR] BM ENGRAFTMENT BY PCR

SPECIMEN REQUIRED: Whole blood or bone marrow at room

emperature or refrigerated

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 10 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 2 weeks

METHODOLOGY: Polyermase Chain Reaction (PCR) and Capillary

Electrophoresis

CPT: 81265 (1st time monitoring)

[BMEXYFISH] BONE MARROW ENGRAFT-XY FISH

SPECIMEN REQUIRED: Whole blood or bone marrow at room

temperature or refrigerated

TUBE OR CONTAINER: Dark Green (heparin) SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 3-5 mL If WBC count is low additional volume

may be necessary

MINIMUM VOLUME: 1 ml

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5-7 days

METHODOLOGY: Fluorescent in situ hybridization (FISH)

CLINICAL USE: Determines percentages of male and female cels in

peripheral blood or bone marrow of individuals transplanted with opposite-sex donor bone marrow

CPT: 88377

[BMFAILNGS] BONE MARROW FAIL SYNDROME NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing of 59 genes associated with the

most common genetics causes of bone marrow

failure

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Next Generation (NextGen) Sequencing (NGS)

CPT: 81216; 81405; 81406 x 4; 81408; 81479 x 52

[BMP] Basic Metabolic Panel

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: Adult: 2 mL

Pediatric: 1 mL

MINIMUM VOLUME: Adult: 1 mL Pediatric: 0.5 mL or 1/2 microtainer

TEST INCLUDES: Sodium, potassium, chloride, carbon dioxide,

calcium, BUN, creatinine, and glucose

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: See individual tests METHODOLOGY: See individual tests

CPT: 80048

[BMPR1A] JUVENILE POLYPOSIS (BMPR1A)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Juvenile Polyposis syndrome (JPS) via BMPR1A gene

METHODOLOGY: Polymerase Chain Reaction (PCR)/Sequencing

CPT: 81479

[BOGLY] CDG: O-GLYCAN PROFILE & QUANT

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Refrigerate until time of shipment; Send

within 24 hours of collection; If unable to ship whole blood within 24 hours, send frozen

plasma

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL (plasma)

MINIMUM VOLUME: 1 mL (whole blood)

1 mL (plasma)

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 10-14 days

REFERENCE RANGE: T antigen: Sialyl T antigen: >= 13 umol

T antigen/Sialyl T ratio: >=0.06

OTHER NAMES: Congenital Disorders of Glycosylation (CDG); METHODOLOGY: Matrix-Assisted Laser Desorption/Ionization-Time

of flight/Time of flight (MALDI-TOF/TOF) and

Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CPT: 82542; 83789; 84378

[BOTTOX] Botulism Toxin Testing (CDC)

[BRAFTHY] BRAF V600E MUTATION

SPECIMEN REQUIRED: Paraffin-embedded, formalin-fixed tissue

block at room temperature

TUBE OR CONTAINER: Paraffin block

TEST AVAILABILITY: Daily TURNAROUND TIME: 10-14 days

METHODOLOGY: Polymerase chain reaction (PCR)/Fluorescence

Monitoring analysis

CPT: 81210

[BROM] Bromide Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Lavender (EDTA or Dark green (heparin) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days

METHODOLOGY: Inductively coupled plasma mass spectometry. (ICF)

CLINICAL USE: Exposure monitoring

CPT:

[BRUCAGG] Brucella Agglutinins

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 Days

REFERENCE RANGE: Negative < 1:20

METHODOLOGY: Semi-quantitative Agglutination

CPT: 86622

[BRUCELG] Brucella IgG Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 Days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Detection of IgG antibodies to B. abortus, B.

melitensis, B. canis and B. suis

CPT: 86622

[BRUCELM] Brucella IgM Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Detection of IgM antibodies to Brucella abortus

in human sera CPT: 86622

[BSCL2] SEIPIN-RELATED DISORDER(BSCL2)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Seipin-related disorders via the BSCL2 gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81406

[BTAAG] Bladder Tumor Associated Antigen

SPECIMEN REQUIRED: Frozen urine TUBE OR CONTAINER: Urine container

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

REFERENCE RANGE: Negative: Antigen not detected

METHODOLOGY: Qualitative immunoassay

CLINICAL USE: Aid in the management of bladder cancer patients

in conjunction with cystoscopy. Qualitative assay detects bladder tumor associated antigen in urine

of persons diagnosed with bladder cancer.

CPT: 86294

[BTHAL] BETA-THALASSEMIA (HBB)

SPECIMEN REQUIRED: Whole blood, amniotic fluid, CVS or buccal

swab at room temperature

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD), sterile

conical tube, T-25 flasks or buccal swab kit SPECIMEN VOLUME: 7 mL (whole blood)

10 mL (amniotic fluid)

20 mg CSF

2 buccal swabs

MINIMUM VOLUME: 3 mL (whole blood)

5 mL (amniotic fluid)

10 mg CSF

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks

OTHER NAMES: Cooley's Anemia; B-Thal

METHODOLOGY: Polymerase chain reaction (PCR CLINICAL USE: Carrier testing, prenatal diagnosis, and

prognosis to predict clinical severity for proper

treatment of B-thalassemia

CPT: 81404

[BUFFY] Buffy Coat Smear

SPECIMEN REQUIRED:

TUBE OR CONTAINER:

SPECIAL HANDLING:

SPECIMEN VOLUME:

MINIMUM VOLUME:

PEDIATRIC TEST INFO:

TEST INCLUDES:

TEST AVAILABILITY:

TURNAROUND TIME:

REFERENCE RANGE:

METHODOLOGY:

REFLEX TEST INFORMATION:

CLINICAL USE:

CPT:

[BUN] Blood Urea Nitrogen

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILTIY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 days: 2-19 mg/dL

1 month-59 years: 7-18 mg/dL

> 60 years: 8-22 mg/dL

METHODOLOGY: Kinetic with Urease/Glutamate dehydrogenase CLINICAL USE: Aid in diagnosis and treatment of certain renal

and metabolic diseases

CPT:84520

[BUNFL] Body Fluid Urea Nitrogen

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Kenetic with Urease/Glutamate dehydrogenase

CPT: 84520

[BUPIV] Bupivacaine Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: The use of serum separator is not recommended

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days REFERENCE RANGE: 0.1 - 4.0 mg

REFERENCE RANGE: 0.1 - 4.0 ug/mL

OTHER NAMES: Levobupivacaine Marcaine; Sensorcaine

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[BUPREN] BUPRENORPHINE & METABOLITE

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect in gel barrier tubes

SPECIMEN VOLUME: 0.3 mL MINIMUM VOLUME: 0.1 mL

TEST INCLUDES: Buprenorphine and metabolite, norbuprenorphine

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

OTHER NAMES: Buprenex, Free Buprenorphine, Subutex

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Monitor therapeutic levels and evaluate toxicity

CPT: 80299

[BUSUL] Busulfan Level

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Dark Green (Sodium heparin)

SPECIAL HANDLING: Specimens must be drawn as described below:

1st specimen: immediately after termination of a 2-hour

IV infusion of busulfan

2nd specimen: 1 hour after the infusion is terminated 3rd specimen: 2 hours after the infusion is terminated 4th specimen: 4 hours after the infusion is terminated

Place specimen on ice immediately after collection; Label each tube with exact

collection time

Send Mayo Information sheet with specimens

SPECIMEN VOLUME: 1 mL (each collection)
MINIMUM VOLUME: 0.5 mL (each collection)

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-3 days

REFERENCE RANGE: AREA UNDER THE CURVE

900-1,500 mcmol*minute

CLEARANCE

2.1-3.5 (mL/minute)/kg

OTHER NAMES: Myleran; Bulsulfex

METHODOLOGY: Gas chromatography-Mass Spectrometry (GC-MS) CLINICAL USE: Useful for guiding dosage adjustments to achieve

complete bone marrow ablation while minimizing

dose-dependent toxicity CPT: 80299 (each collection)

[BWS] BECKWITH-WIEDEMANN METHYLATION

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD) SPECIAL HANDLING: Must arrive at performing lab within 3 days

of collection;

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Methylation of H19 gene (DMR1) and LIT1 gene

(DMR2)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

METHODOLOGY: Methylation-Sensitive Multiplex Ligation-Dependent

Probe Amplification (MLPA)

CLINICAL USE: Confirmation of a clinical diagnosis of BWS;

Assessment of prenatal cases

CPT: 81401 x 2

[C1EFUNC] Functional C1 Esterase Inhibitor

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 days

REFERENCE RANGE: % of mean normal activity

Abnormal: < 41% Equivocal: 41% - 67%

Normal: > 67%

OTHER NAMES: C1 Esterase Inhibitor; C1 Inactivator; C1

Inhibitor; Hereditary Angioneurotic Edema Test METHODOLOGY: Enzyme immunoassay (EIA)

CPT: 86161

[C1EST] C1 Esterase Inhibitor

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate serum from cells within 1 hour of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily REFERENCE RANGE: 21-39 mg/dL

OTHER NAMES: C1 Esterase Inhibitor; C1 Inactivator; C1

Inhibitor; Hereditary Angioneurotic Edema Test METHODOLOGY: Immunologic, quantitative

CLINICAL USE: C1 esterase inhibitor is decreased in hereditary

angioneurotic edema; decrease may be functional

or quantitative CPT: 86160

[C1Q] C1q Binding Immune Complex Detect

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 days

REFERENCE RANGE: < 4.4 ug Eq/mL

OTHER NAMES: C1q Binding; C1q Immune Complexes; Circulating

Immune Complexes

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Monitor immune complex diseases and progress of

some malignancies

CPT: 86332

[C3FLD] Fluid Complement C3

SPECIMEN REQUIRED: Refrigerated body fluid TUBE OR CONTAINER: Plastic transport tube SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Not established

OTHER NAMES: C3 Body Fluid METHODOLOGY: Immunologic

CLINICAL USE: Detect individuals with inborn deficiency of this

factor or those with immunologic disease in whom complement is consumed at an increased rate

CPT: 86160

[C3NEFS] COMPL C3 NEPHRITIC FACTORS

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red-no gel

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks

METHODOLOGY: Immunoelectrophoresis (IFE) and Enzyme analysis

[C4FLD] Fluid Complement C4

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Plastic transport tube SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Not established

OTHER NAMES: C4 Body Fluid METHODOLOGY: Immunologic

CLINICAL USE: Detect individuals with inborn deficiency of this

factor or those with immunologic disease in whom complement is consumed at an increased rate

CPT: 86160

[C9ORF72] ALS VIA C9orf72 REPEAT EXPANS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Amyotrophic Lateral Sclerosis via the C9orf72 gene

hexanucleotide repeat expansion

METHODOLOGY: Combination Of Repeat-Primed PCR and Fluorescent

Fragment-Length Assay

CPT: 81479

[CA] Calcium Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-9 days: 7.7-10.5 mg/dL

10 days-1 year: 9.1-11.1 mg/dL 2-11 years: 8.9-10.9 mg/dL 12-18 years: 8.5-10.3 mg/dL > 18 years: 8.7-10.1 mg/dL

METHODOLOGY: NM-BAPTA

CLINICAL USE: Aid in diagnosis and treatment of parathyroid

disease, a variety of bone diseases, chronic

renal disease and tetany

CPT: 82310

[CA125] CA 125 Antigen

SPECIMEN REQUIRED: Refrigerated serum/plasma TUBE OR CONTAINER: Gold, Red or Lt Green

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: < 38.1 U/mL

OTHER NAMES: Cancer Antigen (CA) 125 METHODOLOGY: Chemiluminescent

CLINICAL USE: Tumor marker for monitoring disease progression in

nonmucinous epithelial neoplasms of the ovary

CPT: 86304

[CA125FLD] Body Fluid CA 125 Antigen

SPECIMEN REQUIRED: Frozen body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: None established

OTHER NAMES: Cancer Antigen (CA) 125, Body Fluid METHODOLOGY: Electrochemiluminescent Immunoassay

CPT: 86304

[CA15] CA 15-3 Antigen

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold or Light Green (heparin)

SPECIAL HANDLING: Stable Room Temp 48 hrs, Refrigerated 5 days

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.8 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: < 25.0 U/mL

OTHER NAMES: Cancer Antigen (CA) 15-3

METHODOLOGY: Chemiluminescent

CLINICAL USE: Monitor patients with systemic recurrence of

breast carcinoma after diagnosis and initial

therapy CPT: 86300

[CA19] CA 19-9 Antigen

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold or Light Green (heparin)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.8 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: < 25.0 U/mL

OTHER NAMES: Cancer Antigen (CA) 19-9 METHODOLOGY: Chemiluminescence

CLINICAL USE: Monitor gastrointestinal, pancreatic, liver and

colorectal malignancies

CPT: 86301

[CA19FLD] Body Fluid CA 19-9 Antigen

SPECIMEN REQUIRED: Frozen body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: None established

OTHER NAMES: Cancer Antigen (CA) 19-9, Body Fluid

METHODOLOGY: Chemiluminescence

CPT: 86301

[CA27] CA 27.29

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red, Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.8 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 days

REFERENCE RANGE: < 3.5-38.6 U/mL

OTHER NAMES: Cancer Antigen (CA) 27.29; Truquant BR

METHODOLOGY: Immuochemiluminescence assay

CLINICAL USE: Manage patients with metastatic carcinoma of the

breast CPT: 86300

[CAD] Cadmium

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will temporarily be accepted

due to shortage, but may result with a

result disclaimer

SPECIAL HANDLING: Please contact laboratory for correct tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure:

nonsmoker: 0.3-1.2 g/L smoker: 0.6-3.9 g/L Occupational exposure:

OSHA Cadmium Standard: 5.0 g/L; BEI

(timing not critical): 5.0 g/L

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(IPC-MS)

CLINICAL USE: Monitor recent or acute exposure to cadmium

CPT: 82300

[CADDNA] CADASIL DNA (NOTCH3)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

REFERENCE RANGE: No mutation detected

METHODOLOGY: Bi-directional DNA Sanger sequencing CLINICAL USE: Detects mutation in the Notch3 gene

CPT: 81479

[CADU] CADMIUM URINE

SPECIMEN REQUIRED: Urine at room temperature (random or 24 hour)

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect 24 hour urine in a "P" container (no

preservative)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2.5 mL

TEST INCLUDES: Cadmium, urine; creatinine, urine;

cadmium:creatinine ratio TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: Occupational exposure: OSHA

Cadmium Standard: 3.0 ug/g creatinine BEI: 5.0 ug/g creatinine

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL INFORMATION: Monitor exposure to cadmium

CPT: 82300; 82570

[CAF] Caffeine Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Lavender (EDTA) or Dark Green (heparin)

SPECIAL HANDLING: Do not collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 days

REFERENCE RANGE: Therapeutic: 3.0-15.0 ug/mL

Neonatal apnea: 8-14 ug/mL

Infant (Potentially toxic: > 50.0 ug/mL

OTHER NAMES: Cafcit Injection (Caffeine Citrate); Durvitan

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Monitor caffeine concentration in newborns

receiving theophylline or caffeine

CPT: 80155

[CAFLD] Body Fluid Calcium

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: NM-BAPTA

CPT: 82310

[CAION] Ionized Calcium

SPECIMEN REQUIRED: Whole blood on ice

TUBE OR CONTAINER: Unopened Light Green (heparin)

SPECIAL HANDLING: Do NOT open tube Specimen WILL be rejected if specimen is not

not received anaerobically

Do not draw EDTA (will be rejected) MUST BE RAN WITHIN 30 MINUTES

collection time

SPECIMEN VOLUME: Adult: 2 mL Pediatric: 1 mL or 1 full microtainer MINIMUM VOLUME: Adult: 1 mL

Pediatric: 0.5 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 1.12-1.32 mmol/L

OTHER NAMES: Calcium Free; Calcium Unbound METHODOLOGY: Ion-selective electrode (ISE)

CLINICAL USE: Evaluate nonbound calcium, calcium metabolism,

physiologically active calcium fraction, hyperparathyroidism, ectopic hyperparathyroidism

CPT: 82330

[CALC] Calcitonin Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Collect specimen from a fasting patient;

Spin in refrigerated centrifuge; separate

and freeze immediately

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.4 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: Male: 0.0 - 8.4 pg/mL

Female: 0.0 - 5.0 pg/mL

OTHER NAMES: Thyrocalcitonin

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Detection and confirmation of C-cell hyperplasia

as well as tumor marker for diagnosis & management

of medullary carcinoma of the thyroid gland

CPT: 82308

[CALCO] Calcofluor Prep

SPECIMEN REQUIRED: Clinical specimen at room temperature

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Indicate source of specimen

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

CLINICAL USE: Determine the presence or absence of fungal forms

CPT: 87205

[CALPRO] Stool Calprotectin

SPECIMEN REQUIRED: Frozen stool TUBE OR CONTAINER: Plastic container

SPECIAL HANDLING: Can remain refrigerated for up to 4 days

SPECIMEN VOLUME: 1 gram MINIMUM VOLUME: 0.5 gram TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

REFERENCE RANGE: >50-120 ug/g = Borderline

Re-evaluate in 4 to 6 weeks >120 ug/g = Abnormal Repeat as clinically indicated

METHODOLOGY: Enzyme-linked Immunosorbent Assay (ELISA) CLINICAL USE: Aid in diagnosis of inflammatory bowel disease

(IBD)

CPT: 83993

[CALR] CALRETICULIN (CALR) MUTATION

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

Use cold pack to transport

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Ship same day as collected whenever possible;

specimens < 72 hours old is preferred

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 6-8 days

METHODOLOGY: Bi-directional sequencing of exon 9 of the CALR

(calreticulin) gene with fragment length analysis for enhanced detection of low levels of insertion/

deletion mutations.

CPT: 81479

[CAMPYAB] Campylobacter jejuni IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: < 0.90

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Markedly elevated levels of antibodies

recognizing C. jejuni typically indicate recent or ongoing infection, even though stool cultures

may be negative CPT: 86625

[CANCERPAN] HEREDITARY CANCER PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequencing of ALK, APC, ATM, BMPR1A, BRCA1,

BRCA2, BRIP1, CDC73, CDH1, CDKN1C, CDKN2A, CHEK2,

EPCAM, FH, FLCN, GPC3, MAX, MEN1, MET, MLH1, MSH2, MSH6, MUTYH, NBN, NF2, PALB2, PHOX2B,

PMS2, PRKAR1A, PTCH1, PTEN, RAD51C, RAD51D, RET,

SDHAF2, SDHB, SDHC, SDHD, SMAD4, STK11, SUFU,

TMEM127, TP53, VHL, WT1 TEST AVAILABILITY: Daily TURNAROUND TIME: 12 weeks

METHODOLOGY: Next Generation sequencing (NextGen)

CPT: 81201; 81204; 81216; 81292; 81295; 81298; 81317; 81321;

81403; 81404; 81405; 81406; 81408

[CANDAB] Candida albicans Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily REFERENCE RANGE: Negative

METHODOLOGY: Double immunodiffusion (DID) CLINICAL USE: Diagnose systemic candidiasis

CPT: 86628

[CARB] Carbamazepine (Tegretol) Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Indicate whether level is random, peak, or

trough

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 3.9-11.8 ug/mL OTHER NAMES: Carbatrol; Tegretol

METHODOLOGY: KIMS

CLINICAL USE: Monitor for compliance, efficiency and toxicity

CPT: 80156

[CARBEPO] Carbamazepine-10,11-Epoxide

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Suggested range: 0.4-4.0 ug/mL

OTHER NAMES: Tegretol metabolite

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[CARBU] Urine Carbohydrate

SPECIMEN REQUIRED: Frozen urine (random)

TUBE OR CONTAINER: Urine container

SPECIAL HANDLING: Early morning specimen preferred

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Negative If positive, carbohydrate is identified

METHODOLOGY: Thin-Layer Chromatography, Qualitative CLINICAL USE: Screen disorders with increased excretion of

fructose, glucose, galactose, disaccharides, and oligosaccharides, as well as succinylpurines

CPT: 84377

[CARDGAM] ANTICARDIOLIPIN PROFILE G,A,M

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Specimens referred to OMRF by physician

request only

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: IgG, IgA, and IgM anticardiolipin antibodies

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Normal: 0-12 APL

0-10 GPL 0-9 MPL

OTHER NAMES: Antiphospholipids; APL; Cardiolipin Ab; ACA METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in diagnosis of antiphospholipid antibody

syndrome CPT: 86147 x 3

[CARNCARD] Carnitine

SPECIMEN REQUIRED: Dried blood spots at room temperature

TUBE OR CONTAINER: Filter paper card SPECIMEN VOLUME: 3 dried blood spots

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days METHODOLOGY: Mass Spectrometry

CPT: 82379

[CARO] Carotene

SPECIMEN REQUIRED: Room temperature serum, protected from light

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Patient should be fasting (12 hours) and

receive no vitamin supplement or foods containing vitamin A or carotene for 24 hrs before testing in patient ages 0-6 months, 48 hrs for older groups (6 months or older)

Protect specimen from light SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily REFERENCE RANGE: 3-91 ug/dL OTHER NAMES: Beta-carotene

METHODOLOGY: High-pressure liquid chromatography (HPLC) CLINICAL USE: Confirm the diagnosis of carotenoderma; detect

fat malabsorption; depressed carotene levels may

be found in cases of steatorrhea

CPT: 82380

[CASPR2] CONTACTIN-ASSOC PROT-2 IGG

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Centrifuge and separate within 2 hours of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days

REFERENCE RANGE: < 1:10 Negative

METHODOLOGY: Semi-Quantitative Indirect Fluorescent Antibody REFLEX TEST INFORMATION: If CASPR2 antibody IgG is positive,

CASPR2 antibody IgG titer will be added

at an additional charge

CLINICAL USE: Aids in diagnosis of Contactin Associated Protein

2 (CASPR2) Antibody disorders associated with acquired neuromyotonia, limbic encephalitis, painful neuropathy, and Morvan syndrome

CPT: 86255

[CATALDIS] CATALASE DISTRIBUTION FIBROBL

SPECIMEN REQUIRED: Fibroblasts at room temperature

TUBE OR CONTAINER: T-25 flasks SPECIMEN VOLUME: 2 flasks MINIMUM VOLUME: 1 flask TEST AVAILABILITY: Daily

CPT: 82657

[CATM] UR CALCIUM TIMED

SPECIMEN REQUIRED: Refrigerated aliquot of 24-hour urine

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect 24-hour urine in "P" or "D" Jug

Urine collected in P Jug may require

adjustment by lab

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE:

100-300 mg/24hrs based on Average Calcium intake

METHODOLOGY: NM-BAPTA

CLINICAL USE: Reflects intake rates of intestinal calcium

absorption, bone resorption, and renal loss

CPT: 82340

[CAUR] Urine Random Calcium

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIAL HANDLING: Adjust pH to < 2 with 6N HCl

SPECIMEN VOLUME: 1 tube (3 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: NM-BAPTA

CPT: 82310

[CBC] Complete Blood Count

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Mix immediately to avoid platelet clumping

Refrigerate if specimen is held past 24 hours Specimen must not be hemolyzed, clotted, or

diluted with IV fluid

Clotted specimens WILL be rejected

4.5 mL tubes requires at least 2.0 mL blood

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL

EDTA MICROTAINER Minimum: 250 uL

TEST INCLUDES: Hematocrit; hemoglobin; MCV; MCH; MCHC; RDW;

percentage and absolute differential counts; platelet count; red and white blood cell counts

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 hours

METHODOLOGY: Automated cell counter

CLINICAL USE: Evaluate anemia, leukemia, reaction to inflam-

mation and infections, peripheral blood cellular characteristics, state of hydration & dehydration, polycythemia, hemolytic disease of the newborn, inherited disorders of red cells, white cells, and platelets; manage chemotherapy decisions; determine qualitative and quantitative variations in white cell numbers and morphology, morphology of red cells and platelet evaluation.

CPT: 85027

[CCP] Cyclic Citrullinated Peptide IgG Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aids in the diagnosis of rheumatoid arthritis when

considered in conjunction with other laboratory

and clinical findings

CPT: 86200

[CD46] CD46

[CD4RTE] CD4 T-CELL RECENT THYMIC EMIG

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must be received in Laboratory by

1:30 pm, Monday through Thursday only; Must be received at performing lab within 24

hours of collection

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 3-5 days

OTHER NAMES:

METHODOLOGY: Flow Cytometry

CPT: 86356

[CDG] CARBOHYD DEF TRANSFERRIN-CDG

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Mono-oligosaccharide/di-oligosaccharide, a-

oligosaccharide/di-oligosaccharide, Transferrin Tri-sialo/Di-oligo Ratio, Apo CIII-1/Apo CIII-2

Ratio and Apo CIII-0/Apo CIII-2 Ratio

TEST AVAILABILITY: Daily TURNAROUND TIME: 6-11 days

REFERENCE RANGE: Transferrin Mono-oligo/Di-oligo: < or =0.06

Transferrin A-oligo/Di-oligo: < or =0.011 Transferrin Tri-sialo/Di-oligo: < or =0.05 Apo CIII-1/Apo CIII-2 Ratio: < or =2.91 Apo CIII-0/Apo CIII-2 Ratio: < or =0.48

OTHER NAMES: Congenital Disorders of Glycosylation (CDG);

Transferrin Isoforms

METHODOLOGY: Affinity Chromatography/Mass Spectrometry (MS)

CLINICAL USE: Screening for congenital disorders of

glycosylation CPT: 82373

[CDIFF] Clostridium Difficile Toxins

SPECIMEN REQUIRED: Loose stool in a leakproof specimen cup without transport media or preservatives. If unable to submit immediately to the OUMC Lab, refrigerate (4 degrees C) for no more than 72 hours. Rectal swabs and formed stool specimens will be rejected.

TUBE OR CONTAINER: Screw cap container.

SPECIAL HANDLING: Test will not be performed on formed stool or swabs, on patients less than 1 year of age, or on patients with a previous positive Toxin B assay in the last 30 days.

TEST AVAILABILITY: Daily

METHODOLOGY: PCR (Polymerase Chain Reaction)

CLINICAL INFORMATION: Aid in diagnosis of antibiotic related

colitis. The C. difficile PCR has a reported negative predictive value of greater than 98%. Therefore, the test will only be performed once every 7 days when C. difficile-associated colitis is strongly suspected. Otherwise, alternate causes of diarrhea should be sought.

[CDKN1C] BWS VIA CDKN1C SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Beckwith-Wiedemann Syndrome (BWS) via CDKN1C gene

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[CEA] Carcinoembryonic Antigen

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Lt Green (heparin), Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day REFERENCE RANGE: < 5 U/mL

OTHER NAMES: CEA

METHODOLOGY: Chemiluminescence

CLINICAL USE: Tumor marker which is most useful as a chemical

chemical monitor of recurrence and therapy in patients with gastrointestinal carcinomas

CPT: 82378

[CEAFLD] Body Fluid Carcinoembryonic Antigen

SPECIMEN REQUIRED: Unspun body fluid at room temperature

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify type of fluid

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: None established METHODOLOGY: Chemiluminescence

CPT: 82378

[CEBPA] CEBPA MUTATION ANALYSIS

SPECIMEN REQUIRED: Whole blood or bone marrow at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or Dark green (heparin)

SPECIMEN VOLUME: 5 mL whole blood

2 mL bone marrow

MINIMUM VOLUME: 3 mL whole blood

1 mL bone marrow

TEST AVAILABILITY: Daily TURNAROUND TIME: 10-12 days

METHODOLOGY: Polymerase chain reaction (PCR); direct

sequencing; capillary electrophoresis

CPT: 81403

[CEFT] Ceftriaxone Level

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Collect within 15 minutes of next dose for the

TROUGH level; Collect within 15-30 minutes

after the end of IV infusion or 45-60 minutes

after an IM injection or 90 minutes after oral

intake for the PEAK level

Do NOT use gel barrier tubes SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 4-7 days

OTHER NAMES: Rocephin

METHODOLOGY: Bioassay (BA)

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[CEFTA] Ceftazidime Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red-no gel

SPECIAL HANDLING: Aseptically remove 2 mL serum to a sterile

tube (ARUP supply #43115) and freeze.

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 Days METHODOLOGY: Bioassay

CLINICAL USE: Monitor levels of antimicrobial drug, ceftazidime.

CPT: 80299

[CELIAC] CELIAC PANEL

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2.5 mL

TEST INCLUDES: Deamidated gliadin Peptide IgG/IgA; Anti-

endomysial IgA; Anti-tissue transglutaminase

IgG/IgA; total IgA

TURNAROUND TIME: 2-5 days

METHODOLOGY: Enzyme immunoassay (EIA); Indirect

Immunofluorescence

CLINICAL USE: Helps to identify patients with celiac disease

(gluten sensitivity) and aid in treatment

monitoring

CPT: 83520 x 2; 86255; 82784

[CENTRAB] Anti-Centromere Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Multiplex bead flow cytometry

CLINICAL USE: Aid in the assessment of scleroderma

CPT: 86039

[CEPHAL] Cephalexin Level

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Collect within 15 minutes of next dose for the

TROUGH level; Collect within 15-30 minutes after the end of IV infusion or 45-60 minutes after an IM injection or 90 minutes after oral

intake for the PEAK level Do NOT use gel barrier tubes SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: Peak: 0.5-18 ug/mL No trough therapeutic range established

OTHER NAMES: Biocef; Keflex; Keftab; Panixine; Zartan

METHODOLOGY: BioAssay

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[CER] Ceruloplasmin

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red, Gold or Green (heparin)

SPECIAL HANDLING: Keep specimen on ice while clotting unless it

can be separated within 45 minutes of collection. Prolonged storage at room

temperature decreases level SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: Male: 0 - 30 days Not established

1 - 6 month 11.0-31.0 mg/dL

7 month - 12 year 18.0-35.0 mg/dL

>12 year 16.0-31.0 mg/dL

Female: 0 - 30 days Not established

1 - 6 month 11.0-31.0 mg/dL > 6 month 19.0-39.0 mg/dL

METHODOLOGY: Immunologic

CLINICAL USE: Evaluation of chronic active hepatitis, cirrhosis

and other liver diseases

CPT: 82390

[CFHR1-3MLPA] MLPA SCREEN (CFHR1-CFHR3)

SPECIMEN REQUIRED: Whole bloood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 4 mL

MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 months

METHODOLOGY: Multiplex Ligation-Dependent Probe Amplification CLINICAL USE: Used to detect presence of NHAR event that results

in deletion of CFHR3-CFHR1

CPT: 81405

[CFMUT] CYSTIC FIBROSIS MUTATION SCRN

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 3 mL (adults)

1 mL (pediatrics)

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 7-10 days REFERENCE RANGE: By report

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81220

[CFTDNGS] CONG FIBER TYPE DISPROPOR-CFTD

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Sequencing of ACTA1, MYH7, RYR1, SEPN1, TPM2 and

TPM3 genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 months

METHODOLOGY: Next Generation Sequncing (NGS)

CPT: 81407; 81408; 81479 x 4

[CFTRSEQ] PANCREATITIS (CFTR) SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Sequencing analysis of entire coding region

CPT: 81223

[CH] CONGENITAL HYPERINSULINISM

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing of ABCC8, GCK, GLUD1, HADH,

HNF1A, HNF4A, KCNJ11, SLC16A1 and UCP2,

TEST AVAILABILITY: Daily

TURNAROUND TIME: 3-7 weeks

OTHER NAMES: Familial Hyperinsulinism

METHODOLOGY: Next-Generation (NextGen) sequencing (NGS)

CPT: 81403; 81405; 81406 x 3; 81407; 81479 x 3

[CH50] Total Complement (CH50)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days REFERENCE RANGE: 40 - 70 U/mL

OTHER NAMES: Total Hemolytic Complement

METHODOLOGY: Quantitative functional hemolysis by

spectrophotometry

CLINICAL USE: Evaluate and follow up SLE patient's response to

therapy; may predict disease flare in SLE; screen for complement component deficiency; evaluate complement activity in cases of immune complex disease, glomerulonephritis, rheumatoid arthritis, SBE, cryoglobulinemia. The CH50 assay mainly

evaluates the classical pathway

CPT: 86162

[CH50FLD] Body Fluid Total Complement

SPECIMEN REQUIRED: Frozen body fluid TUBE OR CONTAINER: Plastic transfer tube SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.8 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days

REFERENCE RANGE: None established

METHODOLOGY: Microparticle enzyme immunoassay (MEIA)

CPT: 86162

[CHARCOT] Charcot-Leyden Crystals

SPECIMEN REQUIRED: Submit raw stool or feces preserved for O&P

exam

TEST AVAILABILITY: Monday-Friday NORMAL TEST VALUES: None detected METHODOLOGY: Microscopic exam

[CHARGE] CHARGE SYNDROME (CHD7 GENE)

SPECIMEN REQUIRED: Whole blood or buccal swab at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or swab

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Sequencing of entire coding region

CPT: 81407

[CHIKPCR] Chikungunya Virus (PCR)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not Detected

METHODOLOGY: Real-Time Polymerase Chain Reaction (RT-PCR)

CPT: 87798

[CHITOT] Chitotriosidase

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or gold

SPECIAL HANDLING: Time-sensitive; specimens must be received

within 4 days of specimen collection. In warm

weather, ship with cold packs. SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-14 days

METHODOLOGY: Fluorometric Enzyme Assay

CLINICAL USE: Useful in monitoring treatment of Gaucher disease

CPT: 84999

[CHLOR] Random Chloramphenicol Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube;

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: 10.0 - 20.0 ug/mL

OTHER NAMES: Chloromycetin

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 82415

[CHLPPCR] Chlamydia pneumoniae DNA (PCR)

SPECIMEN REQUIRED: Throat or nasopharyngeal (NP) swab, bronchial

washings or bronchoalveolar lavage (BAL), or

NP wash/aspirate at room temperature

TUBE OR CONTAINER: Universal transport media (swab) or sterile

container

SPECIMEN VOLUME: One swab or 1 mL bronchial washings, BAL, or

NP wash/aspirate

MINIMUM VOLUME: One swab or 0.2 mL bronchial washings, BAL, or

NP wash/aspirate

TEST AVAILABILITY: Daily

TURNAROUND TIME:

METHODOLOGY: Real-time polymerase chain reaction (PCR) CLINICAL USE: Aid in diagnosis of Chlamydia (Chlamydophilia)

pneumoniae infection

CPT: 87486

[CHOL] Cholesterol Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 3-17 years: < 170 mg/dL

> 18 years: < 200 mg/dL

METHODOLOGY: Enzymatic Colorimetric

CLINICAL USE: Evaluate risk of coronary arterial occlusion and

artherosclerosis CPT: 82465

[CHOL8-9] 8(9)-CHOLESTEROL

SPECIMEN REQUIRED: Whole blood at room temperature

Other acceptable specimen: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 5 mL (whole blood)

1 mL (plasma)

MINIMUM VOLUME: 2 mL (whole blood

0.5 mL (plasma)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days

METHODOLOGY: Gas Chromatography/Mass Spectrometry (GC/MS)

CPT: 82542

[CHOLEST] Cholestanol

SPECIMEN REQUIRED: Whole blood at room temperature

Other acceptable specimen: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 5 mL (whole blood)

1 mL (plasma)

MINIMUM VOLUME: 2 mL (whole blood

0.5 mL (plasma)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days

METHODOLOGY: Gas Chromatography/Mass Spectrometry (GC/MS)

CPT: 82542

[CHOLIN] Serum Cholinesterase

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate serum from red cells immediately

after clotting (30 minutes)
SPECIMEN VOLUME: 0.5 mL
MINIMUM VOLUME: 0.2 mL
TEST AVAILABILITY: Daily
TURNAROUND TIME: 2-3 days
REFERENCE RANGE: Age specific

METHODOLOGY: Spectrophotometry (Ellman) - kinetic CLINICAL USE: Evaluate pre-operative patients for

succinylcholine anesthetic sensitivity, genetic

or secondary to insecticide exposure

CPT: 82480

[CHOLINR] RBC Cholinesterase

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTIAINER: Lavender (EDTA)

SPECIAL HANDLING: Refrigerate entire sample; do not separate.

Stable in whole blood for at least 48 hours

when refrigerated at 2 C to 8 C SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: 5300-10,000 IU/L

OTHER NAMES: Acetylcholinesterase, RBC; Cholinesterase I; True

Cholinesterase

METHODOLOGY: Spectrophotometry (Ellman) - kinetic

CLINICAL USE: Diagnosis of organophosphate & carbamate toxicity

and to detect atypical forms of the enzyme

CPT: 82482

[CHOLPC] Pericardial Fluid Cholesterol

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic, colorimetric

CPT: 84311

[CHOLPL] Pleural Fluid Cholesterol

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84311

[CHOLPT] Peritoneal Fluid Cholesterol

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84311

[CHOLSY] Synovial Fluid Cholesterol

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84311

[CHROM] Chromium Level

SPECIMEN REQUIRED: Plasma at room temperature in a certified

metal-free plastic transport tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will temporarily be accepted

due to shortage, but may result with a

result disclaimer

SPECIAL HANDLING: Please contact laboratory for correct tube;

Spin and separate immediately after collection into a metal free transfer tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: Environmental exposure: 0.1-2.1 g/L METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor industrial exposure

CPT: 82495

[CHROMBLD] CHROMOSOME BLOOD (KARYOTYPE)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (heparin)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 3 mL (adults)

1.5 mL (pediatrics)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 weeks REFERENCE RANGE: By report

METHODOLOGY: Chromosome analysis of 20 metaphases with

preparation and analysis of multiple karyotypes

CLINICAL USE: Evaluate congenital malformations and suspected

chromosomal disorders CPT: 88262; 88230

[CHROMBM] CHROMOSOME BONE MAR (KAROTYPE)

SPECIMEN REQUIRED: Bone marrow at room temperature

TUBE OR CONTAINER: Dark green (heparin)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 3 mL (adults)

1.5 mL (pediatrics)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 weeks REFERENCE RANGE: By report

CLINICAL USE: Identify specific chromosomal abnormalities

associated with myelodysplasia, chronic and acute

leukemia and lymphoma CPT: 88237; 88264

[CHROMBREAK] CHROM ANALYSIS BREAKAGE STUDY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (heparin)

SPECIAL HANDLING: Must arrive in laboratory by 1:30 p.m.

Monday-Thursday only (specimen must arrive at performing lab within 24 hours of collection)

Ship same day as collected

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 3-4 weeks REFERENCE RANGE: By report

OTHER NAMES: Fanconi's Anemia; Mitomycin C

CLINICAL USE: Aid in differential diagnosis between idiopathic

aplastic anemia and Fanconi anemia

CPT: 88230; 88249

[CHROMFISH] CHROMOSOME ANALYSIS-FISH

SPECIMEN REQUIRED: Whole blood, amniotic fluid, tissue or

slides at room temperature

TUBE OR CONTAINER: Dark green (heparin) or sterile container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 weeks REFERENCE RANGE: By report

METHODOLOGY: Fluorescent in Situ Hybridization (FISH)

CPT: 88271; 88275

[CHROMOG] Chromogranin A

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red, Gold, Lavender(EDTA) or Green (heparin)

CAUSES FOR REJECTION: ANY SAMPLE OTHER THAN FROZEN SERUM

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 0.0-101.8 ng/mL

METHODOLOGY: Thermofisher/GRAHMS KRYPTOR assay employes Time

Resolved Amplified Cryptase Emission Cryptate

Emission (TRACE) technology based on a

non-radioactive energy transfer between a donor

and an acceptor.

CLINICAL USE: Aid in the detection and monitoring of

neuroendocrine cancers including

pheochromocytomas, medullary thyroid carcinomas,

functioning and nonfunctioning islet cell and gastrointestinal

amine precursor uptake and decarboxylation tumors, and pituitary

adenomas. A possible adjunct in outcome prediction and follow-up

in advanced prostate cancer.

CPT: 86316

[CHROMTUM] CHROM SOLID TUMOR (KARYOTYPE)

SPECIMEN REQUIRED: Refrigerated tissue specimen

TUBE OR CONTAINER: Sterile container

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 weeks REFERENCE RANGE: By report

METHODOLOGY: Chromosome analysis of 20 metaphases with

preparation and analysis of multiple karyotypes

CPT: 88264; 88239

[CHST3] LARSEN SYND AUTO REC (CHST3)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily

OTHER NAMES: Larsen Syndrome, Autosomal recessive via CHST3

gene

METHODOLOGY: DNA Sequencing

CPT: 81479

[CHYLOBF] Body Fluid Chylomicrons

SPECIMEN REQUIRED: Refrigerated body fluid TUBE OR CONTAINER: Plastic transfer tube SPECIAL HANDLING: Specify type of body fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days REFERENCE RANGE: Absent

METHODOLOGY: Qualitative Electrophoresis

CPT: 82664

[CIPRO] Ciprofloxacin Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red (no gel) or Dark green (heparin)

SPECIAL HANDLING: Collect within 15 minutes of next dose for the

TROUGH level; Collect within 15-30 minutes after the end of IV infusion or 45-60 minutes after an IM injection or 90 minutes after oral

intake for the PEAK level Do NOT use gel barrier tubes SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 3-8 days

METHODOLOGY: High-Performance Liquid Chromatography (HPLC)

with Fluorescence Detection (HPLC-FL)

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[CK] Creatine Kinase

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE:

0-9 years: Female: 58-353 U/L; Male: 58-362 U/L 10-19 years: Female: 43-285 U/L; Male: 53-357 U/L

20 + years: Female: 19-135 U/L 20-65 years: Male: 28-135 U/L 66 + yearrs: Male: 28-135 U/L

OTHER NAMES: Creatine Phosphokinase; CPK

METHODOLOGY: UV

CLINICAL USE: Aid in diagnosis of myocardial infarction (MI) and

skeletal muscular damage

CPT: 82550

[CKMB.INDEX] CKMB WITH INDEX

[CK-MBSTDY] Creatine Kinase MB

[CL] Chloride Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1.0 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: >3 months: 98-111 mmol/L

METHODOLOGY: Ion-Selective Electrode

CLINICAL USE: Evaluate electrolytes, acid-base balance,

H2O balance CPT: 82435

[CLARITH] Clarithromycin Sensitivity

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Collect within 15 minutes of next dose for the

TROUGH level; Collect within 15-30 minutes after the end of IV infusion or 45-60 minutes after an IM injection or 90 minutes after oral

intake for the PEAK level Do NOT use gel barrier tubes SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days

OTHER NAMES: Biaxin METHODOLOGY: Bioassay

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[CLBF] Body Fluid Chloride

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Ion-Selective Electrode

CPT: 82438

[CLCN5] CLCN5 GENE IN DENT DISEASE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 weeks

METHODOLOGY: Bi-directional sequence analysis

CPT: 81479

[CLIN] Clindamycin (Cleocin) Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days

OTHER NAMES: Cleocin

METHODOLOGY: Bioassay (BA)

CPT: 80299

[CLO] Clotest for H.pylori

SPECIMEN REQUIRED: Biopsy specimen

COLLECTION: Allow urea medium to come to room temperature

before use. Insert the biopsy specimen into the semisolid

medium. Push the specimen into the agar with a sterile cotton swab so that the biopsy is surrounded by media. Label tube

with one of the small Meditech labels. Record time of

inoculation on the media and on the large label

TUBE OR CONTAINER: Urea media (obtain from Micro lab in advance) SPECIAL HANDLING: Transport to the Microbiology Laboratory as

soon as possible; Leave at room temperature

if unable to transport immediately

Order CLO when order is for CLOTEST for H.

pylori

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day REFERENCE RANGE: No growth

CLINICAL USE: Detection of Helicobacter pylori

CPT: 87081

[CLON] Clonidine Level

SPECIMEN REQUIRED: Frozen or refrigerated serum or plasma

TUBE OR CONTAINER: Red or Dark Green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: 1.0-2.0 ng/mL

METHODOLOGY: Liquid chromatography/Tandem Mass spectrometry

(LC/MS/MS)

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[CLOTK] Kaolin Activated Coagulation Time

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days REFERENCE RANGE: 50-130 units METHODOLOGY: Clot detection

CPT: 85347

[CLOZ] CLOZAPINE (CLOZARIL)

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark Green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL

TEST INCLUDES: Clozapine and Norclozapine

TEST AVAILABILITY: Daily

REFERENCE RANGE: Therapeutic: average steady-state serum

concentrations following 100 mg twice daily: Peak (2.5 hours after last dose): 102-771 ng/mL

Trough (just before dose): 41-343 ng/mL

OTHER NAMES: Clozaril

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Evaluate toxicity; monitor therapeutic levels

CPT: 80159

[CLSTL] Stool Chloride

SPECIMEN REQUIRED: Liquid stool TUBE OR CONTAINER: Plastic container

SPECIAL HANDLING: Stool must be in liquid form for analysis

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: No established range METHODOLOGY: Ion-Selective Electrode

CPT: 82438

[CLU] Urine Chloride

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (2 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Ion-Selective Electrode

CLINICAL USE: Evaluate electrolyte composition of urine, acid-

base balance studies

CPT: 82436

[CMA] CHROMOSOMAL MICROARRAY ANALYS

SPECIMEN REQUIRED: Whole blood, bone marrow, amniotic fluid or

tissue at room temperature

TUBE OR CONTÂINER: Lavender (EDTA) or sterile container SPECIAL HANDLING: Send within 24-48 hours of collection

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks REFERENCE RANGE: By report

METHODOLOGY: Array-based comparative genomic hybridization

CPT: 81228

[CMP] Complete Metabolic Panel (Group)

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: Adult: 2 mL Pediatric: 1 mL or 1 full microtainer MINIMUM VOLUME: Adult: 1 mL Pediatric Min: 0.8 mL or 3/4 microtainer

TEST INCLUDES: Na, K, Cl, CO2, BUN, Creat, Glucose, Ca, TP, Alb,

T Bili, Alk Phos, ALT, AST TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: See individual tests METHODOLOGY: See individual tests

CPT: 80053

[CMVAVR] CMV ANTIVIRAL RESISTANCE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must be received at performing lab

within 96 hours of collection SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Resistant/None detected

METHODOLOGY: Polymerase Chain Reaction (PCR) followed by gene

sequencing CPT: 87910

[CMVCSF] AB CMV PROFILE-CSF

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: CMV IgG and IgM

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: 0.89 or less

Equivocal: 0.90-1.10 IV Positive: 1.11 or greater

OTHER NAMES: Cytomegalovirus antibody, CSF

METHODOLOGY: IgG: Chemiluminescent Immunoassay

IgM: Enzyme-linked immunoassay (ELISA)

CPT: 86644 x 2

[CMVGAV] CYTOMEGALOVIR(CMV) IGG AVIDITY

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.25 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

REFERENCE RANGE: 0.50 Index or less: Low Avidity

0.51-0.59 Index: Intermediate Avidity 0.60 Index or greater: High Avidity

METHODOLOGY: Semi-Quantitative Enzyme-Linked Immunosorbent

Assay (ELISA) CPT: 86644

[CMVIGG] Cytomegalovirus IgG Antibody

SPECIMEN REQUIRED: Serum room temp

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 3-5 days REFERENCE RANGE: NEGATIVE

OTHER NAMES: Cytomegalovirus antibody IgG

METHODOLOGY: ELFA

CLINICAL USE: Aid in diagnosis of CMV infection

CPT: 86317

[CMVIGGAVID] Cytomegalovirus Avidity

Specimen Required:

Draw blood in plain, red top tube (s). Serum gel tube is

acceptable. Spin down and send 1ml of serum refrigerated in

plastic vial.

Specimen Minimum Volume:

0.5mL

[CMVM] Cytomegalovirus IgM Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: < 30.0 AU/mL OTHER NAMES: Cytomegalovirus antibody IgM

METHODOLOGY: Chemiluminescent immunoassay (CLIA) CLINICAL USE: Aid in the diagnosis of acute primary infection

CPT: 86317

[CMVPCRQNT] Cytomegalovirus DNA Quant (PCR)

SPECIMEN REQUIRED: Urine, bronchial lavage/wash, bone marrow,

amniotic fluid, pleural/pericardial fluid,

eye swab, tracheal aspirate/wash at room

temperature or frozen

Frozen tissue, CSF, Fecal material, Aqueous

or vitreous fluid

TUBE OR CONTAINER: Sterile container, screw top tube or swab

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of

collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 2 mL CSF, urine, bone marrow, liquid stool,

pleural/pericardial fluid or respiratory

specimens 5 mg tissue

Pea sized formed stool

1 swab

MINIMUM VOLUME: 0.5 mL CSF, urine, bone marrow, liquid stool,

pleural/pericardial fluid or respiratory

specimens

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87497

[CMVPCRQUALMISC] Cytomegalovirus DNA Qual (PCR)

SPECIMEN REQUIRED:

TUBE OR CONTAINER: Appropriate container as specified by LAB for

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Not detected OTHER NAMES: Cytomegalovirus DNA

METHODOLOGY: Polyermase Chain Reaction (PCR)

[CMVQLT] Cytomegalovirus DNA Qual (PCR)

SPECIMEN REQUIRED: Slides from paraffin embedded tissue at room

temperature

TUBE OR CONTAINER: Slides
TEST AVAILABILITY: Daily
TURNAROUND TIME: 3-8 days
REFERENCE RANGE: Not detected
OTHER NAMES: Cytomegalovirus DNA

METHODOLOGY: Polyermase Chain Reaction (PCR)

[CO] Carbon Monoxide, Quantitative

SPECIMEN REQUIRED: Whole blood on ice

TUBE OR CONTAINER: Light Green (heparin) or Heparinized syringe SPECIAL HANDLING: Transport on ice to lab immediately; do NOT

open. Perform testing within 2 hours

REASON FOR REJECTION: Specimen at room temp >20 minutes or on

ice longer than 2 hours

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 hour

REFERENCE RANGE: Normal: 0.0-2.0%

Life threatening: >15%

OTHER NAMES: Carboxyhemoglobin METHODOLOGY: Spectrophotometry

CLINICAL USE: Determine extent of CO toxicity in individuals

exposed to exhausts or indoor combustion including

heating CPT: 82375

[CO2] Carbon Dioxide Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 days-30 days: 17-28 mmol/L

1 month-adult: 19-29 mmol/L METHODOLOGY: PEPC

CLINICAL USE: Evaluate the total carbonate buffering system and

acid-base balance CPT: 82374

[COB] Cobalt

SPECIMEN REQUIRED: Plasma at room temperature in a certified

metal-free plastic transport tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will be temporarily accepted

due to royal blue tube shortage, but may

result with a disclaimer.

SPECIAL HANDLING: Please contact laboratory for correct tube;

Spin and separate immediately after

collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: occupational exposure: BEI (sampling

time is

end of shift at end of work week): 1.0 ug/L

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor industrial exposure to cobalt

CPT: 83018

[COCCIABCF] Coccidioides Antibody (Comp Fix)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7 days REFERENCE RANGE: Negative

METHODOLOGY: Complement Fixation (CF) CLINICAL USE: Diagnose coccidioidomycosis

CPT: 86635

[COCCIABCSF] CSF Coccidioides Antibody

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile capped container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: < 1:2

METHODOLOGY: Complement Fixation (CF)

CPT: 86635

[COCCIAGU] Coccidioides Antigen, Quant

SPECIMEN REQUIRED: Room temperature urine TUBE OR CONTAINER: Plastic tube or cup (urine)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days REFERENCE RANGE: None Detected

METHODOLOGY: Enzyme immunoassay (EIA) CLINICAL USE: Aid in diagnosis of Coccididoides

CPT: 87999

[COCCIPCR] Coccidioides immitis DNA

SPECIMEN REQUIRED: Refrigerated or frozen body fluid, CSF,

respiratory specimen or tissue; Fixed tissue

(paraffin block) at room temperature

TUBE OR CONTAINER: Sterile capped container

SPECIAL HANDLING: Must arrive at performing lab within 6 days

of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days REFERENCE RANGE: Negative

OTHER NAMES: Coccidioides immitis/posadasii, Molecular

Detection, PCR

METHODOLOGY: Real-Time Polymerase Chain Reaction (PCR) CLINICAL USE: Rapid detection of Coccidioides DNA; aid in

diagnosing coccidioidomycosis

CPT: 87798

[COL11A2] STICKLER III (COL11A2 GENE)

SPECIMEN REQUIRED: Whole blood or fibroblasts at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or T25 flasks

SPECIMEN VOLUME: 10 mL or 4 flasks MINIMUM VOLUME: 6 mL or 2 flasks

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

OTHER NAMES: type III Stickler syndrome, otospondylomega

epiphyseal dysplasia (OSMED syndrome),

Weissenbacher-Zweymuller syndrome, and autosomal dominant nonsyndromic sensorineural 13 deafness

via COL11A2 gene sequencing

METHODOLOGY: Sanger sequencing

CPT: 81479

[COL1A1-2] COL1A1/COL1A2 (OI)

SPECIMEN REQUIRED: Whole blood or Cultured fibroblasts at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or T25 tissue culture flasks

SPECIMEN VOLUME: 5 mL whole blood or 2 flasks

MINIMUM VOLUME: 3 mL whole blood

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 weeks

METHODOLOGY: DNA Sanger Sequencing

CPT: 81408 x 2

[COL2A1] COL2A1 GENE SEQUENCING

SPECIMEN REQUIRED: Whole blood or fibroblasts at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or T25 flasks

SPECIMEN VOLUME: 10 mL or 4 flasks MINIMUM VOLUME: 6 mL or 2 flasks

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

OTHER NAMES: Achondrogenesis, Chondrodysplasia, early onset

familial osteoarthritis, SED congenita, Langer -Saldino achondrogenesis, Kniest dysplasia,

Stickler syndrome type I, and

spondyloepimetaphyseal dysplasia Strudwick type

via COL2A1 gene sequencing

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479 (Sequencing)

[COL4A5] ALPORT SYNDROME (COL4A5)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily

METHODOLOGY: Sanger sequencing

CPT: 81408 (Sequencing)

[COL9A123] STICKLER AUTO REC (COL9A1/2/3)

SPECIMEN REQUIRED: Whole blood or fibroblasts at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or T25 flasks

SPECIMEN VOLUME: 8 mL or 4 flasks MINIMUM VOLUME: 4 mL or 2 flasks

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

OTHER NAMES: Stickler Syndrome, Autosomal recessive, COL9A1,

COL9A2, COL9A3 gene sequencing

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479 x 3

[COLD] Cold Agglutinins

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Incubate at 37 C and allow to clot at 37 C;

Do NOT refrigerate prior to separation of serum from cells. If there is not a 37 C incubator, allow to clot at room temperature & separate serum from cells immediately after

clotting

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

REFERENCE RANGE: Negative: < 1:32 METHODOLOGY: Hemagglutination

CLINICAL USE: Detection of the presence of cold agglutinins in

patients with suspected cold agglutinin disease

CPT: 86157

[COMPB] Complement Factor B

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

REFERENCE RANGE: 127.6 - 278.5 mcg/mL

METHODOLOGY: Radial Immunodiffusion (RID)

CPT: 86160

[COMPBb] Complement Factor B

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate and freeze immediately

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: Up to 4 weeks REFERENCE RANGE: 0.41-1.49 ug/mL

METHODOLOGY: ELISA

CPT: 86160

[COMPBF] Complement Factor B

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Separate from cells immediately after clot

has formed

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 4 days - 4 weeks REFERENCE RANGE: 123-426 Units/mL METHODOLOGY: Hemolytic Assay

CPT: 86161

[COMPC1Q] Complement C1q Component

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: EDTA (lavender)

VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL

REFERENCE RANGE: 83-125 ug/mL TURN AROUND TIME: 8-10 days

METHODOLOGY: Radial Immunodiffusion (RID)

[COMPC1QAB] Complement C1q Component

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Separate from cells immediately after clot

has formed

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 4 days - 4 weeks REFERENCE RANGE: < 4.2 % of STD

METHODOLOGY: ELISA

CPT: 83520

[COMPC1R] Complement C1r Component

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days REFERENCE RANGE: 61-162 % of standard METHODOLOGY: Radial immunodiffusion (RID)

CPT: 86160

[COMPC1S] Complement C1s Component

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

REFERENCE RANGE: 59-297 % of standard METHODOLOGY: Radial Immunodiffusion (RID)

CPT: 86160

[COMPC2] Complement C2

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Place tube on ice immediately following

collection; Separate and freeze SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: 1.6-4.0 mg/dL

METHODOLOGY: Immunologic quantitation by radial immunodiffusion

(RID)

CLINICAL USE: Assess patients with hereditary deficiency of C2

acquired decrease in its level which may be seen due to hypercatabolism in hereditary angioneurotic edema, or consumption or loss as in vasculitides, glomerulonephritides, immune complex diseases

CPT: 86160

[COMPC3] Complement C3

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Gold or Light Green (Heparin) SPECIAL HANDLING: Stable 4 days Room Temp

8 days 2-8 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: 91-172 mg/dL

OTHER NAMES: C3

METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Detect individuals with inborn deficiency of this

factor or those with immunologic disease in whom complement is consumed at an increased rate; these include lupus erythematosus, chronic active hepatitis, certain chronic infections, poststreptococcal and membranoproliferative glomerulonephritis, and others

CPT: 86160

[COMPC3NEPH] C3 Nephritic Factor

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-14 days REFERENCE RANGE: 0.00-0.30

METHODOLOGY: Semi-Quantitative Immunofixation electrophoresis

(IFE)

CPT: 86320

[COMPC4] Complement C4

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Gold or Light Green (Heparin)

SPECIAL HANDLING: Stable 2 days room temp

8 days 2-8 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: 16-43 mg/dL

OTHER NAMES: C4

METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Detect individuals with inborn deficiency of this

factor or those with immunologic disease in whom hypercatabolism of complement causes reduced

levels; these diseases include lupus erythematosus, serum sickness, certain glomerulonephritis, chronic active hepatitis,

and others CPT: 86160

[COMPC4BP] Complement C4 Binding Protein

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Na citrate)

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days REFERENCE RANGE: 50-130%

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Confirmation and characterization of protein S

deficiency CPT: 83520

[COMPC4D] Complement C4d Fragment

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Plasma must be separated from cells w/in

45 minutes of venipuncture. If more than one hour is expected to pass between draw time and separation, place tube in wet ice and centrifuge cold.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

CPT: 86160

[COMPC5] Complement C5

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Allow specimen to clot for one hour at room

temperature. Separate serum from cells ASAP or

within 2 hours of collection and freeze

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 weeks REFERENCE RANGE: 7-20 mg/dL

METHODOLOGY: Quantitative Radial Immunodiffusion

CPT: 86160

[COMPC5A] Complement C5a

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: EDTA (lavender) Do NOT use serum for this

test

SPECIAL HANDLING: Plasma must be separated from cells w/in

45 minutes of venipuncture. If more than one hour is expected to pass between draw time and separation, place tube in wet ice and

centrifuge cold.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 3 days - 4 weeks REFERENCE RANGE: 4.7-9.5 ng/mL

METHODOLOGY: Radioimmunoassay (RIA)

CPT: 86160

[COMPC5F] Complement C5

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 13700 - 37900 units/mL

CPT: 86161

[COMPC6] Complement C6

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: EDTA (lavender)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily METHODOLOGY: Immunologic

CPT: 86160

[COMPC6F] Complement C6

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 14363 - 38940 units/mL

CPT: 86161

[COMPC7] Complement C7

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily METHODOLOGY: Immunologic

CPT: 86160

[COMPC7F] Complement C7

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 12327 - 33836 units/mL

CPT: 86161

[COMPC8] Complement C8

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA) SPECIAL HANDLING: Separate from cells immediately after clot

has formed and transfer to plastic tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 2.7-6.0 mg/dL METHODOLOGY: Immunologic

CPT: 86160

[COMPC8F] Complement C8

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 18532 - 53364 units/mL

CPT: 86161

[COMPC9F] Complement C9

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 8310 - 42320 units/mL

METHODOLOGY: Hemolytic assay

CPT: 86161

[COMPDF] COMPLEMENT FACTOR D FUNCTION

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Separate from cells immediately after clot

has formed

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 4 days - 4 weeks REFERENCE RANGE: 127-306 Units/mL METHODOLOGY: Hemolytic Assay

CPT: 86161

[COMPH] Complement Factor H

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days REFERENCE RANGE: 160-412 ug/mL

METHODOLOGY: Radial Immunodiffusion (RID)

CPT: 86160

[COMPI] Complement C1

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days

REFERENCE RANGE: 29.3-58.5 ug/mL OTHER NAMES: C3B/C4B inactivator

METHODOLOGY: Radial Immunodiffusion (RID)

CPT: 86160

[COMPSC5b9] Complement C5

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate and freeze immediately

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: Up to 4 weeks REFERENCE RANGE: Male: 72-244 ng/mL

Female: 27-244 ng/mL METHODOLOGY: ELISA

CPT: 86160

[COP] Copper Level

SPECIMEN REQUIRED: Plasma at room temperature in a certified

metal-free plastic transport tube

TUBE OR CONTAINER: Royal Blue (EDTA)

Lavender will be temporarily accepted due

to royal blue tube shortage, but result

may be affected

SPECIAL HANDLING: Please contact laboratory for correct tube;

Plasma must be separated from cells within 45

minutes of collection and transferred to a

plastic transport tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 days

REFERENCE RANGE: Environmental exposure: 70-155 ug/dL

Levels may be somewhat higher in pregnant women and children and in patients receiving

estrogen therapy

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Along with serum ceruloplasmin and urine copper

to test for Wilson disease and more often, in monitoring the nutritional adequacy of parenteral

or enteral nutrition

CPT: 82525

[COPRBC] COPPER PLASMA & RBC

SPECIMEN REQUIRED: Refrigerated red blood cells (RBCs) AND

Plasma

TUBE OR CONTAINER: Royal Blue (EDTA)

SPECIAL HANDLING: Please contact laboratory for correct tube;

Plasma should be separated from cells within

45 minutes of collection

Specimen must be received at performing lab

within 5 days of collection

SPECIMEN VOLUME: 3 mL each (plasma and RBCs) MINIMUM VOLUME: 2 mL each (plasma and RBCs)

TEST AVAILABILITY: Daily

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Evaluate copper stores and accumulation

CPT: 82525 x 2

[COQ10] Coenzyme Q10 Level

SPECIMEN REQUIRED: Frozen and light protected serum TUBE OR CONTAINER: Lt Protected Gold/RNG Serum

SPECIAL HANDLING: Protect from light in amber tube or wrap

completely in aluminum foil SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

OTHER NAMES: CoQ10; Total Coenzyme Q10; Ubiquinone

METHODOLOGY: High-performance liquid chromatography (HPLC) with

electrochemical detection

CPT: 82542

[COQ10WBC] Coenzyme Q10 Level

SPECIMEN REQUIRED: Whole blood (leukocytes) at room temperature

TUBE OR CONTAINER: Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 14 days

OTHER NAMES: CoQ10; Total Coenzyme Q10; Ubiquinone

METHODOLOGY: High-performance liquid chromatography (HPLC) with

electrochemical detection

CPT: 82542

[CORTBG] Transcortin (Cortisol Binding Glob)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

OTHER NAMES: CBG; Corticosteroid Binding Globulin (CBG)

Transcortin

METHODOLOGY: Direct RIA in dilute serum

CPT: 84449

[CORTR] Cortisol

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Gold or Light Green (heparin)

SPECIAL HANDLING: Stable 24 hours room temp

4 days 2-8 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: ADULTS: AM: 4.4-16.6 ug/dL

PM: 2.5-10.3 ug/dL

Pediatrics/Children: Age dependent

OTHER NAMES: Compound F; Hydrocortisone METHODOLOGY: ECLIA Competition Principle

CLINICAL USE: Aid in diagnosis of adrenocortical insufficiency,

Addison's disease, adrenocortical hypersecretion,

Cushing's syndrome

CPT: 82533

[CORTRH] Corticotropin Release Hormone Stimu

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Patient should not be on any corticosteroid or

ACTH medications, if possible, for at least 48 hours prior to sample collection. Centrifuge and separate with 45 minutes of collection

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-9 days

CPT: 83519

[CORTST] Corticosterone

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate from cells within 1 hour

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days

METHODOLOGY: Liquid Chromatography Tandem Mass Spectrometry

(LC/MS/MS) CPT: 82528

[COV19] Coronavirus (COVID-19)(PCR)

SPECIMEN REQUIRED: nasopharyngeal (NP) swab

TUBE OR CONTAINER: Nasopharyngeal in UTM or VTM (viral transport medium)

SPECIAL HANDLING: Refrigerate specimen within 4 hours of

collection.

Sample may be stored at 2-8 C for up to 48 hours of collection.

Ship immediately to lab at 2-8 C (ice pack). If collection to receipt in the lab will exceed 48 hours freeze at -10 C or

colder and ship on dry ice. Do not freeze/thaw.

REFERENCE RANGE: None-Detected

METHODOLOGY: PCR

CPT: 87798

[COVID19 OUM] SARS-CoV-2 PCR

[COVID19REF] Coronavirus (COVID-19)(PCR)

SPECIMEN REQUIRED: nasopharyngeal (NP) swab

TUBE OR CONTAINER: Nasopharyngeal in UTM or VTM (viral transport medium)

SPECIAL HANDLING: Refrigerate specimen within 4 hours of

collection.

Sample may be stored at 2-8 C for up to 48 hours of collection. Ship immediately to lab at 2-8 C (ice pack). If collection to receipt in the lab will exceed 48 hours freeze at -10 C or

colder and ship on dry ice. Do not freeze/thaw.

REFERENCE RANGE: None-Detected

METHODOLOGY: PCR

CPT: 87798

[COVID19UW] COVID-19 PCR UNIV WASHINGTON

[COVIDIGGAB] SARS-CoV-2 IgG Antibody (CMIA)

SPECIMEN REQUIRED: SERUM OR EDTA PLASMA

TUBE OR CONTAINER: GOLD OR EDTA

SPECIMEN VOLUME: 1.0mL SERUM/EDTA PLASMA MINIMUM VOLUME: 0.5mL SERUM/EDTA PLASMA

TEST INCLUDES: COVID 19 IGG TEST AVAILABILITY: MON-FRI TURNAROUND TIME: MON-FRI REFERENCE RANGE: NEGATIVE

METHODOLOGY: CMIA

CPT: 86769

[COXBPCR] Coxiella burnetii Interpretation

SPECIMEN REQUIRED: Frozen serum (CBSRP) or plasma (CBBRP)

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Negative

METHODOLOGY: Real-Time Polymerase chain reaction (PCR) CLINICAL USE: Diagnosing Coxiella burnetii infection (ie, Q

fever)

CPT: 87798

[CPEP] C-Peptide

SPECIMEN REQUIRED: Serum

TUBE OR CONTAINER: Gold or Red No Gel

SPECIAL HANDLING: Draw at room temp. Separate and freeze within

48 Hours.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 ml

TEST AVAILABILITY: Monday and Thursday

TURNAROUND TIME: 4-7 days

REFERENCE RANGE: 0.9 - 7.1 ng/mL

OTHER NAMES: Connecting Peptide; Insulin C-Peptide; Proinsulin

C-Peptide

METHODOLOGY: Chemiluminescence

CLINICAL USE: Principal use is in the evaluation of hypoglycemia

CPT: 84681

[CPEPUR] Urine C-Peptide

SPECIMEN REQUIRED: Frozen urine aliquot (24 hour collection)

TUBE OR CONTAINER: Urine transport tube

SPECIAL HANDLING: Collect specimen in a "P" container (no

preservative)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 17.2 - 181.0 ug/24 hours

METHODOLOGY: Roche ECLIA

CPT: 84681

[CPSA] Complexed Prostate Specific Antigen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: 0.0-3.6 ng/mL

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Useful for determining residual disease and early

recurrence after therapy

CPT: 84152

[CREAGUAN] CREATINE/GUANIDINOACETATE

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Green (heparin)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Creatine and Guanidinoacetate

TEST AVAILABILITY: Daily TURNAROUND TIME: 10-12 days REFERENCE RANGE: Creatine: 0-2 yr: 28 - 102 micromoles/L > 3 yr: 20 - 110 micromoles/L

Guanidinoacetate:

0-2 yr: 0.3 - 1.6 micromoles/L > 3 yr: 0.3 - 2.1 micromoles/L

METHODOLOGY: Isotope dilution tandem mass spectroscopy CLINICAL USE: Assess abnormalities in the synthesis of creatine

CPT: 82540; 83789

[CREAT] Creatinine

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Stable 7 days room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-1 year: 0.20-0.41 mg/dL

2-11 years: 0.20-0.74 mg/dL

12 years + (Female): 0.78-1.23 mg/dL 12 years + (Male): 0.78-1.34 mg/dL

METHODOLOGY: Jaffe rate

CLINICAL USE: Aid in diagnosis and treatment of renal diseases,

in monitoring renal dialysis, and as a calculation

basis for measuring other urine analytes

CPT: 82565

[CREATINE] Creatine

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Male: 0.2 - 0.7 mg/dL

Female: 0.3 - 0.9 mg/dL

METHODOLOGY: Enzymatic (creatinase)/spectrophotometry

CLINICAL USE: Serum creatine levels may be significantly

increased in amyotrophic lateral sclerosis,

dermatomyositis, myasthenia gravis, starvation,

muscular dystrophies, and trauma

CPT: 82540

[CREATU] Urine Random Creatinine

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (6 mL) MINIMUM VOLUME: 1 tube (2 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Jaffe rate

CLINICAL USE: Renal function test

CPT: 82570

[CREFLD] Body Fluid Creatinine

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Jaffe rate

CPT: 82570

[CREGUANU] UR CREATINE/GUANIDINOACETATE

SPECIMEN REQUIRED: Frozen urine

TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 1 mL

TEST INCLUDES: Creatine and Guanidinoacetate

TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days REFERENCE RANGE: Creatine:

0-6 yr: 20 - 900 micromoles/mole creatinine > 6 yr: 12 - 500 micromoles/mole creatinine

Guanidinoacetate:

0-6 yr: 22 - 123 micromoles/mole creatinine > 6 yr: 24 - 112 micromoles/mole creatinine

METHODOLOGY: Isotope dilution tandem mass spectroscopy CLINICAL USE: Assess abnormalities in the synthesis of creatine

CPT: 82540; 82570; 83789

[CREUTZ] Creuzfeldt-Jakob Disease

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Screw-capped, sterile vial

SPECIAL HANDLING: CJD patient history form must accompany

specimen

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: < 2.0 ng/mL Normal

2.0 - 3.9 ng/mL Indeterminate > or = 4.0 ng/mL Elevated

METHODOLOGY: Immunochemiluminometric Assay (ICMA)

CPT: 84182

[CRP] C-Reactive Protein

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Gold or Light Green (heparin)

SPECIAL HANDLING: Testing cannot be performed on lipemic

samples; it is best to collect specimen from

a fasting patient

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: As a marker to assess medical events resulting

in tissue injury, infections, or inflammation:

< 5.0 mg/L

METHODOLOGY: Particle enhanced immunoturbidimetric

CLINICAL USE: CRP is an acute phase reactant, which can be used

as a test for inflammatory diseases, infections,

and neoplastic diseases

CPT: 86140

[CRPQ] C-Reactive Protein High Sensitivity

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Gold or Light Green (heparin)

SPECIAL HANDLING: Testing cannot be performed on lipemic

samples; it is best to collect specimen from

a fasting patient

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: As a marker to assess medical events resulting

in tissue injury, infections, or inflammation:

0.0 - 8.0 mg/L

As a marker for relative risk of future cardiovascular event in the absence of tissue injury, infections, or inflammation:

Low < 1.0 mg/L

Average 1.0 - 3.0 mg/L

High > 3.0 mg/L

METHODOLOGY: Turbidimetric

CLINICAL USE: CRP is an acute phase reactant, which can be used

as a test for inflammatory diseases, infections,

and neoplastic diseases

CPT: 86140

[CRSPANT] Cryptosporidium Antigen

SPECIMEN REQUIRED: Submit 5 mL raw stool in Para-Pak Formalin

(pink top) transport media.

TUBE OR CONTAINER: Para-Pak Formalin (pink top)

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 72 hours VOLUME OF SPECIMEN: 5 mL NORMAL TEST VALUES: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL INFORMATION: Cryptosporidium antigen is more sensitive

than O&P exam for the identification of Cryptosporidium.

[CRYANTLFA] Cryptococcal Antigen LFA

SPECIMEN REQUIRED: Refrigerated serum or cerebrospinal fluid

TUBE OR CONTAINER: Red, Gold or sterile container

ORDERING MODULE: MIC SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative

METHODOLOGY: Lateral Flow Immunochromatographic Assay

REFLEX TEST INFORMATION: Positive specimens will be reflexed to

a cryptococcal antigen titer at an

additional charge

CLINICAL USE: Aid in establishing the presence if Cryptococcus

neoformans infection

CPT: 87899

[CRYFL] Body Fluid Crystals

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Gold or Red; sterile tube or syringe

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUEM: 20 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative METHODOLOGY: Polarized light

CLINICAL USE: Determine the cause of inflammation

CPT: 89060

[CRYO] Cryoglobulin

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect in gel barrier tube; Send to

lab immediately

Incubate specimen at 37 degrees C for 2 hours

while clotting

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: Negative

METHODOLOGY: Precipitation of cryoglobulin at 4 degrees C

REFLEX TEST INFORMATION: If positive, quantitative cryoglobulin

will be reflexed at an additional

charge

CLINICAL USE: May be present in macroglobulinemia of Waldenstrom

myeloma, chronic lymphocytic leukemia, lupus,

chronic active hepatitis, and other viral

infections CPT: 82595

[CRYOF] Cryofibrinogen

SPECIMEN REQUIRED: Room temperature plasma

TUBE OR CONTAINER: Lavender (EDTA); Blue (citrate) or Gray

(Sodium fluoride)

SPECIAL HANDLING: Specimen must be drawn in a prewarmed tube

and kept at 37 C. Separate immediately

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: None detected

METHODOLOGY: Precipitation

CLINICAL USE: Detect cold precipitable fibrinogen

CPT: 82585

[CRYPAB] Cryptococcus Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.6 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: Negative: < 1:2 METHODOLOGY: Cell agglutination

CLINICAL USE: Aid in the diagnosis of cryptococcus

CPT: 86641

[CRYPTU] Urine Cryptococcus Antigen

SPECIMEN REQUIRED: Frozen or refrigerated urine (random)

TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Negative

METHODOLOGY: Latex Agglutination

CPT: 86403

[CRYSY] Synovial Fluid Crystals

SPECIMEN REQUIRED: Refrigerated synovial fluid

TUBE OR CONTAINER: Lavender (EDTA), Green (heparin), Red, Gold

or sterile tube

SPECIAL HANDLING: Specimens submitted with attached needle will

be rejected

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative METHODOLOGY: Polarized light

CLINICAL USE: Determine cause of inflammation

CPT: 89060

[CRYTITLFA] Cryptococcal Antigen Titer LFA

[CSF3RMUT] CSF3R MUTATION

SPECIMEN REQUIRED: Room temperature whole blood or bone marrow

Use cold pack to transport

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Ship same day as collected whenever possible;

specimens < 72 hours old is preferred

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 8-10 days

METHODOLOGY: Bi-directional sequencing of exons 14 and 17 of

the CSF3R gene which includes detection of the common mutation T618I (also known as T595I).

CPT: 81479

[CSFC] CSF Culture

[CSFGQ1B] GQ1b Antibodies

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[CSFVANC] CSF Vancomycin

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile CSF tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 Days

REFERENCE RANGE: None established

METHODOLOGY: Immunoassay

CPT: 80202

[CTC1] Blood Chromosome Analysis

[CTCP] CIRCULATING TUMOR CELL-PROSTAT

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: CellSave tube (call lab to obtain)

SPECIAL HANDLING: Specimen must arrive at performing lab within

96 hours of collection; Ship within 24 hours Monday-Thursday only; Do NOT freeze or refrigerate; Must be collected in special

tube

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 7.5 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 1 week

METHODOLOGY: Immunomagnetic selection, identification and

enumeration of CTC in peripheral blood sample

enrichment

CLINICAL USE: Provides enumeration of circulating tumor cells

(CTC) of epithelial origin in whole blood

CPT: 86152

[CTELO] C-Telopeptide

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate serum from cells within 45 minutes

of venipuncture

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 1 week - 1 month REFERENCE RANGE: Male: 115-748 pg/mL

Female:

premenopausal 112-738 pg/mL postmenopausal 142-1351 pg/mL

OTHER NAMES: CTX

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Used as an indicator of human bone resorption

CPT: 82523

[CTSK] PYCNODYSOSTOSIS VIA CTSK GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks OTHER NAMES: Cathepsin K (CTSK) METHODOLOGY: Sanger sequencing

CPT: 81479

[CUIND] Chronic Urticaria Index

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: If specimen held more than 7 days; store and

ship frozen

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: 1-50

OTHER NAMES: Autoimmune chronic urticaria; FC Epsilon, Hives

Anti-FceR auto antibody, CD203c

METHODOLOGY: Quantitative enzyme immunoassay

CPT: 86352

[CULABS] Abscess Cult & Gram Stain

SPECIMEN REQUIRED: Collect specimen with a sterile syringe and

needle when possible. REMOVE NEEDLE. Express

air bubbles from syringe and stopper securely

with syringe cap or luer tip cap TUBE OR CONTAINER: Syringe

SPECIAL HANDLING: Do not expose specimen to air; Indicate exact

source of abscess

NOTE: Anaerobic culture should also be ordered

on abscess material submitted for culture

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and aerobic culture

TEST AVAILABILITY: Daily

TURNAROUND TIME: 120 hours for final

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULABSAA] Abscess A/An Cult & Gram Stain

SPECIMEN REQUIRED: Collect specimen with a sterile syringe and needle when possible. REMOVE NEEDLE. Express

air bubbles from syringe and stopper securely

with syringe cap or luer tip cap TUBE OR CONTAINER: Syringe

SPECIAL HANDLING: Do not expose specimen to air; Indicate exact

source of abscess

ORDERING MODULE: MIC

TEST INCLUDES: Aerobic culture, gram stain, anaerobic culture

TEST AVAILABILITY: Daily

TURNAROUND TIME: 120 hours for final

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULACA] Acanthamoeba Culture

SPECIMEN REQUIRED: Special fresh acanthamoeba media

TUBE OR CONTAINER: Acanthamoeba media

SPECIAL HANDLING: Please contact the microbiology lab at 271-

4006 for special media

Indicate source of specimen

ORDERING MODULE: MIC

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Aerobic culture on selective media CLINICAL USE: Detect bacterial pathogenic organisms

CPT: 87081

[CULAEROM] Aeromonas Stool Culture

SPECIMEN REQUIRED: Fresh stool at room temperature

TUBE OR CONTAINER: Para-Pak C&S orange transport media

Hospital: Clean container with a tight lid

SPECIAL HANDLING: In-patient specimens should be submitted

in a clean container with a tight lid ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 72 hours REFERENCE RANGE: No growth

METHODOLOGY: Aerobic culture on selective media CLINICAL USE: Detect bacterial pathogenic organisms

CPT: 87046

[CULAFB] AFB Culture & Smear

SPECIMEN REQUIRED: Refrigerated specimen

Source:

BLOOD: Aseptically draw 10 mL blood in an isolator tube.

Refer to test CULBLDISO-Culture, blood isolator

BONE MARROW: 1.5 mL of aspirate in a pediatric isolator tube;

Also submit a biopsy specimen in a sterile

capped container

BRONCHIAL WASHING, BRUSHING, OR LAVAGE: 10 mL in a tightly

sealed container

CSF: 3 mL in a sterile screw-cap tube

BODY FLUIDS: 10 mL in a tightly sealed sterile tube or

syringe with the needle removed

SPUTUM: Minimum of 10 mL of the first morning specimen,

produced by a deep cough, in a tightly sealed sterile container. Avoid contamination by saliva by first

rinsing mouth with tap water

TISSUE: Specimen in sterile screw-cap container with a small

amount of sterile saline to prevent drying

URINE: 50 mL of first morning void in tightly sealed sterile

container

SPECIAL HANDLING: Transport without delay to the laboratory;

Do NOT add Cyto Lyt or formalin to any AFB

culture specimen

An order of "AFBx3" means specimens collected

on three consecutive mornings; Indicate date,

time and source on specimens

Swab specimens are NOT acceptable

ORDERING MODULE: MIC

TEST INCLUDES: AFB smear and AFB culture

TEST AVAILABILITY: Daily

TURNAROUND TIME: AFB smear: 24 hours

Final negative culture results: 6-8 weeks REFERENCE RANGE: No growth

TEST AVAILABILITY: Daily

METHODOLOGY: Automated BACTEC, conventional tube culture and

fluorescent smear

CLINICAL USE: Isolate and identify mycobacteria

[CULAFBCFREF] AFB Culture & Smr CF Ref NJ

[CULAFBREF] AFB Cult & Smr Stl Ref LabCorp

[CULANA] Anaerobic Cult & Gram Stain

SPECIMEN REQUIRED: Specimens are best collected by aspiration or

biopsy. Collection by swab only may limit the recovery of

anaerobes. Collect the specimen in an anaerobe transport tube

or container and transport to the Micro Lab as soon as possible.

Source:

ABCESS/BODY FLUID: Aspirate with sterile needle and syringe.

Express all air bubbles from the syringe, remove needle and cap syringe tightly

PÉRCUTANEOUS TRANSTRACHEAL ASPIRATION OR BIOPSY: Submit in

appropriate anaerobic transport container

TISSUE: Place in appropriate anaerobic transport container

URINE, BLADDER/SUPRAPUBIC: Submit in syringe with all air

bubbles expressed. Remove needle and cap syringe tightly

WOUND: Cleanse wound with sterile water or saline and sterile guaze to remove excess exudate. Use an anaerobic culturette to SWAB DEEPLY. Re-insert swab into plastic sleeve

SPECIAL HANDLING: To assure anaerobic conditions, carefully

follow directions provided on anaerobic transport system.

TEST INCLUDES: If raw specimen is submitted, gram stain is

performed

TEST AVAILABILITY: Set up daily TURNAROUND TIME: 120 hours

CLINICAL INFORMATION: The following specimens are not suitable

for anaerobic culture: fecal specimens, throat & nasopharyngeal specimens, sputum and bronchoscopic specimens, vaginal and

cervical swabs, voided or catheterized urines.

CPT: 87205; 87075

[CULBAL] BAL Quant Cult & Gram Stain

SPECIMEN REQUIRED: Bronchoalveolar lavage specimen

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Additional fluid, up to 30 ml, may be

required if other tests are also ordered

ORDERING MODULE: MIC SPECIMEN VOLUME: 30 mL MINIMUM VOLUME: 10 mL

TEST INCLUDES: BAL quantitative culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87070; 87205

[CULBALBLIN] BAL Quant Cult (NBS) & Gram St

SPECIMEN REQUIRED: Bronchoalveolar lavage specimen

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Additional fluid, up to 30 ml, may be

required if other tests are also ordered

ORDERING MODULE: MIC SPECIMEN VOLUME: 30 mL MINIMUM VOLUME: 10 mL

TEST INCLUDES: BAL quantitative culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87070; 87205

[CULBALIMM] BAL Protocol-Immunocompromised

SPECIMEN REQUIRED: Bronchoalveolar lavage specimen

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: For immunocompromised patients ONLY

Notify the Micro lab in advance at 271-4006 If Cytology is required, submit an additional

30 ml of specimen

ORDERING MODULE: MIC SPECIMEN VOLUME: 25 mL

TEST INCLUDES: Cultures for BAL quantitative, Fungus, AFB,

Legionella CMV shell vial and Respiratory virus; Smears for AFB, Pneumocystis DFA, Gram Stain, Calcofluor white prep (for fungi), & Nomarski Prep

TEST AVAILABILITY: Daily

TURNAROUND TIME: See individual tests

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205 x 2; 87070; 87081; 87281; 87210; 87102; 87254; 87252

[CULBART] Bartonella Culture

SPECIMEN REQUIRED: Tissue from lymph node or organ, such as

spleen or liver or Bone marrow

TUBE OR CONTAINER: Tissue - Sterile, sealed container

Bone marrow - 1.5 mL Isolator

SPECIAL HANDLING: Refer to CULBLDBAR for collection of

Bartonella blood cultures

Send to the Microbiology Lab in a timely

manner with ALL of the culture labels

Call Micro at 271-4006 for further information

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 3 weeks REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify Bartonella

CPT: 87081

[CULBLD] Blood Culture: Routine

SPECIMEN REQUIRED:

Blood culture set at room temperature or 37 degrees C;

Refer to OUMC Blood Culture guidelines posted on the intranet under "Laboratory".

Amount to be drawn based on patient's weight.

One set = one venipuncture site.

If collecting more than one set of bottles, draw blood from separate venipuncture site and include the exact time of collection of each set of blood cultures collected and the site of each draw, and the initials of person collecting.

COLLECTION INSTRUCTIONS:

- Prepare venipuncture site using a Medi-Flex prep kit (or similar product including chlorhexidine gluconate or iodine for skin disinfection).

Follow instructions on package.

- Use a needle and sterile syringe to aseptically draw the amount of blood specified in the guideline, based on patient's weight.
- Remove the needle from the syringe and cleanse the rubber tops of the correct blood culture bottle(s) with an alcohol prep.
- Transfer blood from syringe to the Bactec bottles by inserting the syringe needle through the rubber tops of the bottles. A vacuum will pull the blood from the syringe into the bottle. Control the flow of blood from the syringe to deliver the correct amount based on the Blood Culture Guidelines chart.
- 7-10mL into the grey bottle
- 3-10mL into the yellow bottle
- or if weight is Gently invert bottles to prevent clotting (do not shake).

TUBE OR CONTAINER: Bactec Grey & Yellow or Pink for Pediatrics

SPECIAL HANDLING: Do NOT refrigerate blood cultures; Specimens

should be transported to the lab as soon as

possible and within 24 hours of collection

NOTE: Bactec Plus Resin bottle effectively

removes antimicrobials for patients on therapy

BUBBLE WRAP GLASS BOTTLES IF TRANSPORTING BY

TUBE SYSTEM

DO NOT COVER BOTTLE BAR CODE WITH PATIENT

LABEL!

ORDERING MODULE: MIC

SPECIMEN VOLUME: 20 mL total optimal for one set or

3 mL total fo patients TEST INCLUDES: Aerobic and Anaerobic cultures for 20 mL draw or

Aerobic for 3 mL draw

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 Days REFERENCE RANGE: No growth

METHODOLOGY: Automated, BACTEC FX

CLINICAL USE: To isolate and identify pathogenic organisms

All positive cultures are called to the doctor or

facility. A minimum of two sets of blood cultures is recommended; a maximum of three sets should be

is recommended; a maximum of three sets should be

drawn within a 24-hour period.

CPT: 87040

[CULBLDISO] Blood Cultures: Isolator

SPECIMEN REQUIRED: Aseptically drawn whole blood at room temperature;

TUBE OR CONTAINER: Isolator tube - 10 Ml

SPECIAL HANDLING: Do NOT refrigerate or incubate Isolator;

Deliver to lab for processing within 8 hours;

Order only on immunocompromised patients

ORDERING MODULE: MIC SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: AFB, Bartonella and fungus culture of blood

TEST AVAILABILITY: Daily

TURNAROUND TIME: 3 weeks; all positive cultures are called to

nursing or referring physician REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87040

[CULBLDISOL] Blood Culture: Isolator

SPECIMEN REQUIRED: Aseptically drawn whole blood at room

temperature;

Invert several times to prevent clotting

TUBE OR CONTAINER: Isolator tube, 10 ML

SPECIMEN HANDLING: Do NOT refrigerate or incubate Isolator;

Deliver to lab for processing within 8 hours; Isolator blood cultures are ordered to detect fastidious organisms (bacteria, AFB, and fungus):

Order for immunocompromised patients

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 weeks REFERENCE RANGE: No growth

All positive cultures are called to physician

METHODOLOGY: Manual Culture

CLINICAL USE: Isolate and identify fastidious organisms such as

Bartonella, filamentous fungi, Malassezia spp.,

and Mycobacteria. CPT: 87040

[CULBLDOTH] Blood Culture:Other System

[CULBLDPED] Blood Culture Ped Isolator

SPECIMEN REQUIRED: Whole blood at room temperature; use aseptic

technique for specimen collection

TUBE OR CONTAINER: One Isolator 1.5 tube

SPECIAL HANDLING: Transport within 8 hours of collection

Do NOT refrigerate

Gently mix tube to prevent clotting ORDERING MODULE: MIC

SPECIMEN VOLUME: optimal 1.5 mL

MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Manually read culture plates

CLINICAL USE: Isolate and identify pathogenic organisms such as

Malassezia spp., or filamentous fungi

CPT: 87040

[CULBLDTRX] Blood Culture: Transfusion Rx

[CULBM] Bone Marrow Cult & Gram Stain

SPECIMEN REQUIRED: Room temperature aspirate and biopsy specimen

TUBE OR CONTAINER: Pedi isolator (aspirate; biopsy (sterile

container)

SPECIAL HANDLING: For reference, submit slide made directly

from aspirate with the aspirate and biopsy

If Brucella is suspected, please order CULBRU

ORDERING MODULE: MIC SPECIMEN VOLUME: 1.5 mL

TEST INCLUDES: Bone marrow culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87081

[CULBRO] Bronchial Cult & Gram Stain

SPECIMEN REQUIRED: Bronchial washings, brushings, or lavage

TUBE OR CONTAINER: Sterile screw cap

SPECIAL HANDLING: Do NOT add CytoLyt. Submit cytology specimen

in separate container if ordered.

Indicate if specimen is washing or brushing;

indicate laterality (e.g. right lobe, left

lobe).

Protected brushes submitted in 1 mL sterile

saline - will be processed for quantitation

when requested.

ORDERING MODULE: MIC SPECIMEN VOLUME: 1 mL

TEST INCLUDES: Bronchial culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULBRU] Brucella Cult & Gram Stain

SPECIMEN REQUIRED: Blood culture or bone marrow. Tissue,

synovial fluid, CSF, or urine is also acceptable.

TUBE OR CONATINER: Bactec bottle (aerobic)

SPECIAL HANDLING: Notify microbiology laboratory (271-4006)

prior to submission of specimen if possible.

TURNAROUND TIME: 28 days

METHODOLOGY: Automated BACTEC if fluid

CPT: 87205; 87081

[CULCAM] Campylobacter Stool Culture

SPECIMEN REQUIRED; submit fresh stool in Para-Pak C&S (orange

top transport media. Do not refrigerate.

HOSPITAL COMMENT: a clean container with a tight lid is the

preferred container for hospital in-patients.

TUBE OR CONTAINER; Para-Pak C&S orange

TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours

[CULCFRESP] Cystic Fibrosis Resp Cult/Gram

SPECIMEN REQUIRED: Sputum or swab

COLLECTION:

1. Have patient rinse and gargle with water prior to sputum collection; Collect a deeply coughed sputum in a sterile screw cap container or

2. Collect a deep throat swab in a culture swab

TUBE OR CONTAINER: Sterile container or culture swab

SPECIAL HANDLING: CF patients require a specialized set of

culture media and workup for identification

of pathogens common to their population

ORDERING MODULE: MIC

TEST INCLUDES: Culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULCSF] CSF Cult & Gram Stain

SPECIMEN REQUIRED: Cerebrospinal fluid (CSF) at room temperature

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Do NOT refrigerate

Deliver to lab immediately ORDERING MODULE: MIC SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CPT: 87205; 87070

[CULCVP] CVP Catheter Tip Culture

SPECIMEN REQUIRED: Central line catheter tip

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Foley catheter specimens are not acceptable

and will be rejected; Other non-vascular catheters may be submitted as a "Culture,

Device"

Not acceptable for anaerobic culture Indicate source (body site or type of

catheter)

ORDERING MODULE: MIC

SPECIMEN VOLUME: Last two inches of catheter tip

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Semiquantitative roll-tip method is performed

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87070

[CULDEV] Device Culture

SPECIMEN REQUIRED:

Non-vascular catheters: Submit two inches of non-vascular

catheter tip in a sterile container.

Note: Culture of different parts of a device require different containers for each portion to be cultured. (Foley catheter specimens are NOT acceptable & will be rejected. Central line catheters may be submitted as a "Culture, Cath Tip" CULCVP)

Other devices: Submit only the portion of the device that needs to be cultured. A screw-cap sterile container is generally an acceptable container.

TUBE OR CONTAINER: Sterile container

(Swabs are inappropriate collection devices for this test.)

TEST AVAILABILITY: Daily TURNAROUND TIME: 72 hours METHODOLOGY: Culture

CLINICAL INFORMATION: Indicate source (type of device part or

catheter) on requisition.

REFERENCE RANGE: No growth after 3 days

[CULDIAL] Dialysate Culture Protocol

SPECIMEN REQUIRED: Body fluid

TUBE OR CONTAINER: Isolator AND Red

SPECIAL HANDLING: Collect body fluid with sterile needle and

syringe. Aseptically deliver into a 10 mL isolator tube. Submit remaining 10 mL body fluid in a red-stopper 10 mL vacutainer tube.

ORDERING MÔDULE: MIC SPECIMEN VOLUME: 20 mL

MINIMUM VOLUME: 10 mL

TEST INCLUDES: Gram stain, aerobic culture, KOH prep, and

fungal culture

TEST AVAILABILITY: Daily

TURNAROUND TIME: 5 days for final (including fungal culture)

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87070; 87205; 87102; 87220

[CULDRA] Drainage Cult & Gram Stain

SPECIMEN REQUIRED: Refrigerated drainage fluid or swab TUBE OR CONTAINER: Sterile syringe or Culture Swab Plus

SPECIAL HANDLING: State source of specimen

Remove needle, express air bubbles, cap

syringe tightly

ORDERING MODULE: MIC SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Gram stain and aerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULDRAAA] Drainage Cult A/An & Gram Stn

SPECIMEN REQUIRED: Refrigerated drainage fluid or swab TUBE OR CONTAINER: Sterile syringe or Culture Swab Plus

SPECIAL HANDLING: State source of specimen

Remove needle, express air bubbles, cap

syringe tightly

Deliver to lab immediately ORDERING MODULE: MIC SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Gram stain, aerobic and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULDUO] Duodenoscope Culture

[CULEAR] Ear Cult & Gram Stain

SPECIMEN REQUIRED: Swab from internal or external ear

EXTERNAL EAR: Collect with Culture Swab Plus

INTERNAL EAR: Cleanse external ear with alcohol, collect drainage from inner ear with

NP swab

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: State source and laterality

Distinguish external and internal sources

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULEC157] E.coli O:157 Culture

SPECIMEN REQUIRED: Submit fresh stool specimen in stool C&S

transport container (Para-Pak orange top). TUBE OR CONTAINER: Para-Pak C&S

TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours

[CULENV] Environmental Culture

SPECIMEN REQUIRED:

Source:

FLUIDS: 10 mL fluid; submit in sterile screw-cap container

SURFACES: Swab area with Culture Swab Plus

WATER: Submit 10 mL water in sterile screw-cap container Food cultures are not performed at OU MEDICAL CENTER

LABORATORY.

HOSPITAL COMMENT: Environmental cultures must be approved by the

Infection Prevention Department before the lab will perform test

TUBE OR CONTAINER: Culture Swab Plus or sterile container

SPECIAL HANDLING: When surface swabs are submitted, specify the

potential pathogen under investigation. Specimens received that

do not identify a specific pathogen will not be accepted.

TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours

CLINICAL INFORMATION: For sterilzer check, order "Sterilizer

Function Check, CULSTER"

The Environmental Culture is intended to identify specific pathogens in the local facility under Epidemiological

investigation. This test is not appropriate as a general screen

for sterility of an object or surface.

[CULEYE] Eye Cult & Gram Stain

SPECIMEN REQUIRED: Swab or plated specimen

COLLECTION OF SPECIMEN:

CONJUNCTIVA OR LIDS: Collect with culturette or with Dacron

wire swab, if inoculating directly onto plated media

(chocolate and blood agar plate)

CORNEAL SCRAPINGS: Inoculate directly onto plated media

(chocolate, blood agar plate, and thio broth)

INTERNAL EYE (VITREOUS/AQUEOUS): Inoculate directly onto

plated media (chocolate, blood agar plate and thio broth) and

slides. If eye washings are collected, submit cassette

container.

TUBE OR CONTAINER: Specified media

SPECIAL HANDLING: Specify source and laterality; Deliver to lab

immediately; Inclusion of patient clinical

history and differential diagnostic considerations is very helpful ORDERING MODULE: MIC

TEST INCLUDES: Culture and gram stain

TEST AVAILABILITY: Daily

TURNAROUND TIME: 3 days to 2 weeks (depending on exact specimen

type)

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULFLU] Body Fluid Cult & Gram Stain

SPECIMEN REQUIRED: Body fluid collected aseptically

TUBE OR CONTAINER: Sterile syringe

SPECIAL HANDLING: State source of specimen; If source is

peritoneal dialysate fluid (PD fluid), please see Culture Body Fluid (Dialysate)-CULDIAL,

for collection instructions.

Remove needle, express air bubbles, cap

syringe tightly

ORDERING MODULE: MIC SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULFLUAA] Body Fluid A/An Cult & Gram St

SPECIMEN REQUIRED: Body fluid collected aseptically

TUBE OR CONTAINER: Sterile syringe or Culture Swab Plus

SPECIAL HANDLING: State source of specimen

Remove needle, express air bubbles, cap

syringe tightly

Do NOT submit swabs or plated material

ORDERING MODULE: MIC

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gram stain, aerobic and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULFUN] Fungus Culture

SPECIMEN REQUIRED: Refrigerated specimen

Source:

BODY FLUIDS: Submit 5 mL or more in a sterile, tightly capped

container

BRONCHIAL WASHING, BRUSHING, OR LAVAGE: Submit in tightly

sealed sterile container; do not add CytoLyt

CSF: Collect aseptically; Submit to lab ASAP in tightly sealed container at room temperature.

1 ml optimum

0.5 ml minimum

SPUTUM: Have the patient rinse mouth with tap water just prior to collection. Submit 5 mL (or more) deeply coughed sputum in a sterile, tightly sealed container.

sputum in a sterile, tightly sealed container.

TISSUE: Submit specimen in a tightly sealed sterile container. Add a small amount of sterile saline to prevent

the tissue from drying. Do not add CytoLyt or formalin.

URINE: Submit 50 mL catheterized specimen in a tightly sealed

sterile container

TUBE OR CONTAINER: Tightly sealed sterile container

SPECIAL HANDLING: Indicate specimen source and laterality

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Establish the diagnosis of fungal infections

CPT: 87102

[CULFUNSK] Fungus Culture Skin/Nail/Hair

SPECIMEN REQUIRED: Skin or nail scrapings

Collection: Cleanse area with 70% alcohol

SKIN: With a sterile blade, scrape the skin at the border of

the active lesion and normal tissue

NAILS: Use a sterile blade and take deep scrapings of the

nail

TUBE OR CONTAINER: Sterile container or Mycosel plate SPECIAL HANDLING: Indicate specimen source and laterality

ORDERING MODULE: MIC

TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Establish diagnosis of fungal infection

CPT: 87101

[CULGC] GC Culture

SPECIMEN REQUIRED: Swab of appropriate site or fluid from joint or other appropriate sites.

TUBE OR CONTAINER: For this specific order, a culture packet is obtained from the Microbiology Lab (ext. 14006), consisting of one Modified Thayer Martin plate, a special zippered bag and CO2 ampule, instructions, and a specimen bag.

SPECIAL HANDLING: Indicate specimen source during order process.

- 1. Allow culture plate to reach ROOM TEMP before use.
- 2. Label plate with patient or Meditech label on the side that shows the name of the media.
- 3. Collect specimen with swab, open plate, and rub swab on media surface in an "M" or "Z" pattern. Replace lid and discard swab.
- 4. Place plate in special zip bag that contains the CO2 ampule
- 5. Securely zip close the bag, then squeeze the ampule in the center such that it is crushed. This will allow CO2 to be produced. Do NOT reopen the bag.
- 6. Place the bag inside a specimen bag and add the remaining Meditech labels to the pouch on the specimen bag.
- 7. Send to the Laboratory.
 ORDERING MODULE: MIC
 TEST AVAILABILITY: Daily
 TURNAROUND TIME: 3 days

REFERENCE RANGE: Negative for Neisseria gonorrhoeae

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify N. gonorrhoeae; establish

the diagnosis of gonorrhea

CPT: 87081

[CULGEN] Genital Cult & Gram Stain

SPECIMEN REQUIRED: Culture Swab Plus at room temperature

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate source; Do NOT refrigerate; Vagina

are unacceptable for anaerobic cultures;

Deliver to lab immediately; If specimen is

vaginal for Group B Strep only, order CULSTRB;

if for vaginal source, order CULVAG

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain, aerobic and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULGENAA] Genital A/AN Cult & Gram Stain

SPECIMEN REQUIRED: Culture Swab Plus at room temperature

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate source; Do NOT refrigerate; Vaginal

are unacceptable for anaerobic cultures;

Deliver to lab immediately

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain, aerobic and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULHPC] HPC Culture

[CULJOI] Joint Fluid Cult & Gram Stain

SPECIMEN REQUIRED: Joint fluid at room temperature

COLLECTION: Collect joint fluid with sterile needle and

syringe; remove needle, express air bubbles,

cap syringe tightly

TUBE OR CONTAINER: Sterile syringe

SPECIAL HANDLING: Indicate specimen source and laterality; Do

not submit swabs. Specimens received with

needle attached will not be accepted

Deliver to lab immediately ORDERING MODULE: MIC SPECIMEN VOLUME: 10 mL

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULJOIAA] Joint Fld A/An Cult & Gram Stn

SPECIMEN REQUIRED: Joint fluid at room temperature

COLLECTION: Collect joint fluid with sterile needle and

syringe; remove needle, express air bubbles,

cap syringe tightly

TÜBE OR CONTAINER: Sterile syringe

SPECIAL HANDLING: Indicate specimen source and laterality; Do

not submit swabs. Specimens received with

needle attached will not be accepted

Deliver to lab immediately ORDERING MODULE: MIC SPECIMEN VOLUME: 10 mL

TEST INCLUDES: Gram stain, aerobic, and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULLEG] Legionella Culture

SPECIMEN REQUIRED: Refrigerated respiratory specimen or lung

tissue

TUBE OR CONTAINER: Tightly sealed sterile container

SPECIAL HANDLING: Do NOT add CytoLyt or formalin; if cytology is

ordered in addition to culture, submit separate specimen marked "for cytology"

Indicate specimen source ORDERING MODULE: MIC

SPECIMEN VOLUME: 10 mL (respiratory specimen)

1 gram (lung tissue)

TEST AVAILABILITY: Daily TURNAROUND TIME: 14 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify Legionella species

CPT: 87081

[CULMYP] Mycoplasma pneumoniae culture

SPECIMEN REQUIRED: Refrigerated respiratory, joint fluid, or CSF

TUBE OR CONTAINER: Multi-microbe media (M-4)

SPECIAL HANDLING: Indicate specimen source; Order UREAPL for

Ureaplasma/ genital mycoplamas on non-respiratory specimens;

Inclusion of patient clinical history and

differential diagnostic considerations is very

helpful

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify Mycoplasma species of

respiratory origin CPT: 87109

[CULORTHO] Orthoped A/An Cult & Gr stain

SPECIMEN KEQUIKED: Keirigerated piece of tissue

TUBE OR CONTAINER: Sterile container sent STAT or E Swab SPECIAL HANDLING: Indicate specimen source and laterality

HOSPITAL COMMENT: Deliver to lab immediately

Do NOT add formalin or CytoLyt. Record time

of collection on container ORDERING MODULE: MIC

TEST INCLUDES: Gram stain, aerobic, and anaerobic culture that

will be held 14 days.

TEST AVAILABILITY: Daily TURNAROUND TIME: 15 days REFERENCE RANGE: No growth METHODOLOGY: Culture

CLINICAL USE: Isolate and identify fastidious pathogenic

organisms that are slow growing (up to 14 days)

CPT: 87205; 87070; 87075

[CULQTIS] Quant Tissue Cult & Gram Stain

SPECIMEN REQUIRED: Tissue

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Indicate source and laterality of specimen

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture CPT: 87071; 87205; 87176

[CULSIN] Sinus Cult & Gram Stain

SPECIMEN REQUIRED: Refrigerated swab

COLLECTION: Collect specimen with NP wire swab, avoiding contact with internal nares. Place the swab in the tube of a

Culture Swab Plus.

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate source and specimen laterality

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily

TURNAROUND TIME: 3 days for final REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULSINAA] Sinus A/An Cult & Gram Stain

SPECIMEN REQUIRED: Refrigerated nasal fluid

COLLECTION: Collect specimen with sterile needle and syringe;

Remove needle; Express air bubbles and cap tightly

TUBE OR CONTAINER: Syringe

SPECIAL HANDLING: Indicate specimen laterality

Do NOT submit swabs

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain, aerobic and anaerobic culture

TEST AVAILABILITY: Daily

TURNAROUND TIME: 4 days for final REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULSPU] Sputum Cult & Gram Stain

SPECIMEN REQUIRED: Sputum

EXPECTORATED SPUTUM:

1. Have the patient rinse and gargle with water prior to

specimen collection. Instruct the patient not to

expectorate saliva or post-nasal discharge. Early

morning, freshly expectorated sputum is preferred

2. Collect specimen resulting from a deep cough in

a sterile screw-capped container

INDUCED SPUTUM (performed by respiratory therapy personnel)

1. Using an ultrasonic nebulizer, have the patient inhale

approximately 20 to 30 ml of 3 to 10% 0.85% NaCl. 2. Collect induced sputum in sterile screw-capped cup

TUBE OR CONTAÎNER: Sterile container

SPECIAL HANDLING: Indicate if sputum is induced or not induced.

If specimen is from tracheal aspirate, please

order CULTRA (Culture, trach sputum)

Specimens with >10 squamous epithelial cells/

LPF are considered heavily contaminated with

saliva and are unsatisfactory for culture.

Recollection will be requested ORDERING MODULE: MIC

TEST INCLUDES: Sputum culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULSTER] Sterilizer Function Check

SPECIMEN REQUIRED: Submit sterilizer check vial. For each new

log, submit two un-sterilized, unbroken vials for negative and

positive controls. Refer to specific manufacturer's

instructions in use at your facility.

SPECIAL HANDLING; Submit to laboratory within 36 hours of

collection

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

[CULSTL] Stool Culture

[CULSTRB] Strep B Culture

SPECIMEN REQUIRED: Swab

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate source of specimen; This test is a

screen for colonization by Group B strep only;

Sensitivities are not routinely performed;

however, if patient is Pen allergic, susceptibility will be performed. ORDERING MODULE: MIC

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify Streptococcus group B

CPT: 87081

[CULTH] Throat Culture

SPECIMEN REQUIRED: Swab of tonsillar area, posterior pharynx,

and area of inflammation with swab Avoid contact with tongue and cheek

TUBE OR CONTAINER: BBL Culture Swab (with liquid Stuart's) SPECIAL HANDLING: If an initial Rapid Strep Screen is desired,

order STRAANT. If it is negative it will

reflex to this test.

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: No growth or Normal oral flora

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

Culture will be observed for any bacterial agents

of pharyngitis CPT: 87070

[CULTIS] Tissue (Surg) Cult & Gram Stn

SPECIMEN REQUIRED: Refrigerated tissue in a small amount of

non-bacteriostatic sterile saline

TUBE OR CONTAINER: Sterile screw-top container

SPECIAL HANDLING: Indicate specimen source and laterality;

Deliver to lab immediately

Do NOT add formalin or CytoLyt; submit

specimen for pathology in a separate container

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87176

[CULTISAA] Tissue (Surg) A/An Cult & Gram

SPECIMEN REQUIRED: Refrigerated piece of tissue TUBE OR CONTAINER: Anaerobic transport container

SPECIAL HANDLING: Indicate specimen source and laterality

HOSPITAL COMMENT: Deliver to lab immediately

Do NOT add formalin or CytoLyt. Record time

of collection on container ORDERING MODULE: MIC

TEST INCLUDES: Gram stain, aerobic, and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULTISANA] Tissue Anaerobic Culture

[CULTISSW] Tissue Swab Cult & Gram Stain

SPECIMEN REQUIRED: Specimen on Culture Swab Plus

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate specimen source and laterality

Preferred specimen is biopsy material; order

CULTIS, Culture Surgical Tissue

Swabs are considered poor specimens

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULTISSWAA] Tissue Swab A/An Cult & Gram

SPECIMEN REQUIRED: Aerobic and anaerobic swabs

TUBE OR CONTAINER: Culture swab

SPECIAL HANDLING: Indicate specimen source and laterality

Preferred specimen is biopsy material; order CULTISAA, Culture Tissue (Aerobe/Anaerobe);

Swabs are considered poor specimens

Deliver to lab immediately ORDERING MODULE: MIC

TEST INCLUDES: Gram stain, aerobic, and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070; 87075

[CULTRA] Trach Asp Cult & Gram Stain

SPECIMEN REQUIRED: Refrigerated aspirated specimen

TUBE OR CONTAINER: Trach trap tightly sealed

ORDERING MODULE: MIC

TEST INCLUDES: Sputum culture and gram stain

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULTUL] Tularemia Culture

SPECIMEN REQUIRED: Blood, Tissue (often lymph node) or throat

swab

TUBE OR CONTAINER: Isolator tube (blood); Sterile container

(tissue); Culturette device (throat)

SPECIAL HANDLING: Order CULTUL if order is for Tularemia Culture

This is in addition to other routine cultures Notify the Micro Lab in advance at 271-4006

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 3 weeks REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify Tularemia

CPT: 87081

[CULUR] Urine Culture

SPECIMEN REQUIRED: Refrigerated urine

COLLECTION INSTRUCTIONS:

CLEAN CATCH: Use a urine collection kit and follow the instructions on patient preparation to avoid contaminating specimen with skin/vaginal flora. Collect a tube. Indicate type of urine specimen (i.e., clean catch, catheter, etc.).

CATHETER SPECIMENS:

I/O catheter: Collect a mid-stream specimen from the open end of the catheter into a sterile container. Transfer a minimum of 3 mL collected urine into a B-D urine transport tube. Foley catheter: Disinfect catheter port with alcohol swab and use a sterile needle and syringe to collect 5-10 mL of urine. Inject a minimum of 3 mL collected urine into a B-D urine

transport tube.

BLADDER, SUPRAPUBIC, OR KIDNEY: Aseptically collect specimen with sterile needle and syringe; transfer a minimum of 3 mL to

a B-D urine transport tube.

HOSPITAL COMMENT: B-D urine transport tube is not needed if

specimen is immediately placed on ice and delivered to lab

SPECIAL HANDLING: Never collect urine from the catheter drainage

tube or collection bag. Foley specimens

growing multiple species are generally the

result of poor collection technique.

Recollection will be requested.

Urine frequently supports the proliferation of

bacteria, which may multiply at the same rate

as in nutrient broth. Therefore, a urine

delayed in transit and left at room temp for

extended period of time may give erroneous

results

Urine must be processed in the Lab within 2

hours of collection if not refrigerated

ORDERING MODULE: MIC

SPECIMEN VOLUME: 2 urine gray (8 mL) MINIMUM VOLUME: 1 urine gray (4 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87088

[CULVAG] Vaginal Cult & Gram Stain

SPECIMEN REQUIRED: Swab of vaginal canal

COLLECTION: Remove excess secretions with sterile gauze

before collection. Use a Culture Swab Plus to

swab mucosa high in the vaginal canal. Vaginal

secretions are inappropriate for anaerobic

culture and will be rejected.

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: If specimen is for group B Strep only, order

CULSTRB, Culture, Strep B. If culture for GC

is indicated, order GCDNA and submit in

Amplicor transport tube

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: No growth OR Normal vaginal flora

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULVRE] VRE Screen Culture

SPECIMEN REQUIRED: Fresh stool, rectal swab, or vaginal swab TUBE OR CONTAINER: Sterile, screw-cap container or CultureSwab

ORDERING MODULE: MIC

SPECIMEN VOLUME: Pea-size portion of fresh stool

TEST INCLUDES: Culture screen for vancomycin resistant strains

of Enterococcus species

TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours

REFERENCE RANGE: Negative for VRE

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify vancomycin resistant

organisms in order to identify carriers and institute precautions to avoid spread of nosocomially acquired infections

CPT: 87081

[CULWOU] Wound Cult & Gram Stain

SPECIMEN REQUIRED: Refrigerated swab from wound

COLLECTION: Clean surface of wound with sterile water and sterile gauze to remove excess surface exudates. Swab deeply

with a Culture Swab Plus

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate specimen source and laterality

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87205; 87070

[CULWOUAA] Wound Cult A/An & Gram Stain

SPECIMEN REQUIRED: Refrigerated swab from wound

COLLECTION: Clean surface of wound with sterile water and sterile gauze to remove excess surface exudates. Swab deeply

with a Culture Swab Plus

TUBE OR CONTAINER: Culture Swab Plus

SPECIAL HANDLING: Indicate specimen source and laterality

ORDERING MODULE: MIC

TEST INCLUDES: Gram stain and aerobic and anaerobic culture

TEST AVAILABILITY: Daily TURNAROUND TIME: 5 days REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify pathogenic organisms

CPT: 87070; 87075; 87205

[CURVABA] Curvularia lunata Allergen

SPECIMEN REQUIRED: Refrigerated or room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days REFERENCE RANGE: < 1 mg/L

METHODOLOGY: Enzyme immunoassay (FEIA)

disorders in conjunction with other clinical

findings CPT: 83520

[CV2AB] CV2 AUTO-ANTIBODY

SPECIMEN REQUIRED: Frozen or refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-14 days REFERENCE RANGE: Negative METHODOLOGY: Western blot

CPT: 84182

[CXCR4] WHIM SYNDROME VIA CXCR4

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Warts, Hypogammaglobulinemia, infections, and

Myelokathexis (WHIM) Syndrome via the CXCR4 gene METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[CYAN] Cyanide

SPECIMEN REQUIRED: Refrigerated or frozen whole blood

TUBE OR CONTAINER: Gray (Fluoride oxalate); Lavender (EDTA) or

Dark Green (Heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

METHODOLOGY: High Performance Liquid Chromatography with

Fluorescence Detection; (HPLC-FL)

CLINICAL USE: Monitor exposure to cyanide

CPT: 82600

[CYCAMP] Cyclic AMP

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA) SPECIAL HANDLING: Separate and freeze as soon as possible

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days REFERENCE RANGE: 12-22 nm

REFERENCE RANGE: 12-22 pmol/mL METHODOLOGY: Radioimmunoassay

CLINICAL USE: Useful in the clinical assessment of

parathyroid function

CPT: 82030

[CYCLO] Cyclosporine Level

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 50-500 ng/mL

OTHER NAMES: Neoral, CSA

METHODOLOGY: Chemilumenescent microparticle immunoassay (CMIA) CLINICAL USE: Monitor levels in management of immuno-supression

for organ transplant recipients

CPT: 80158

[CYCLO2HR] Cyclosporine 2 Hour Post Dose Level

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Draw two hours after dose.

SPECIMEN VOLUME: 5 mL
MINIMUM VOLUME: 1 mL
TEST AVAILABILITY: DAILY
TURNAROUND TIME: 4 HOURS
REFERENCE RANGE: Not established

OTHER NAMES: Neoral, CSA

METHODOLOGY: Chemilumenescent microparticle immunoassay (CMIA) CLINICAL USE: Monitor levels in management of immuno-supression

for organ transplant recipients

CPT: 80158

[CYFRA] Cytokeratin Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days REFERENCE RANGE: 0.0 - 2.3 ng/mL

OTHER NAMES: Soluble Cytokeratin 19 Fragment; CYFRA 21-1 METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86316

[CYP2D6] CYTOCHROME P450 2D6 GENOTYPING

SPECIMEN REQUIRED: Whole blood or buccal swab at room

temperature

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD) or Buccal swab

SPECIMEN VOLUME: 7 mL whole blood

Buccal swab kit

MINIMUM VOLUME: 3 mL whole blood

2 buccal swabs

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days OTHER NAMES: DME Genotyping

METHODOLOGY: Polymerase Chain Reaction (PCR) CLINICAL USE: Measures metabolism of certain drugs

CPT: 81226

[CYP3A4] Cytochrome P450 3A4 Genotype

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: An aid to clinicians in determining therapeutic

strategies for drugs that are metabolized by

CYP3A4, including atorvastatin, simvastatin and

lovastatin CPT: 81401

[CYSTABCSF] CSF Cysticercosis Antibody

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

REFERENCE RANGE: Negative: 0.34 O.D. or less

Equivocal: 0.35-0.50 O.D. Positive: 0.51 O.D. or greater

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

REFLEX TEST INFORMATION:

CLINICAL USE: Detection of intrathecally-produced

organism-specific antibodies in CSF indicates

central nervous system infection

CPT: 86682

[CYSTC] Cystatin C

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Gold or Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.53 - 0.95 mg/L

METHODOLOGY: Immunologic

CLINICAL USE: A good marker of renal function

CPT: 82610

[CYSTUP] UR CYSTINE PROFILE

SPECIMEN REQUIRED: Frozen aliquot of 24 urine collection

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: 24 hour collection of urine in "P" container

(no preservative)

Testing can be performed on random collection

(no reference range established) SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 10-100 mg/24 hours

METHODOLOGY: Liquid chromatography/tandem mass spectometry

(LC/MS-MS)

CLINICAL USE: Detect cystinuria and other diseases related to

sulfur-containing amino acids; work up

nephrolithiasis CPT: 82131

[CYSTWBC] WBC Intracellular Cystine

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Yellow (ACD)

SPECIAL HANDLING: Specimen must arrive in laboratory by 1:30 pm

Monday through Thursday only

(must arrive at Baylor w/in 36 hrs of

collection)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-9 days

REFERENCE RANGE: < 0.2 nmoles half cystine/mg protein

CLINICAL USE: Aid in the diagnosis and management of cystinosis

CPT: 82131

[DANTROLENE] Dantrolene Level

SPECIMEN REQUIRED: Serum or Plasma, Frozen TUBE OR CONTAINER: RED or LAVENDER

SPECIAL HANDLING: Protect from light, separate serum or plasma

SPECIMEN VOLUME: 1mL MINIMUM VOLUME: 0.3mL TEST INCLUDES: Dantrolene level TEST AVAILABILITY: Daily

REFERENCE RANGE: No Normals METHODOLOGY: Spectroflourometry

CPT:80369

[DARS2] LEUKOENCEPH VIA DARS2 GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Leukoencephalopathy via DARS2 sequencing

METHODOLOGY: Sequence analysis is performed in both forward and

reverse directions CPT: 81479

[DARUN] DARUNAVIR (PREZISTA) LEVEL

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

OTHER NAMES: Prezista

METHODOLOGY: High performance liquid chromatography (HPLC)

CPT: 82542

[DATNEG] DAT NEGATIVE HEMOLYTIC ANEMIA

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) & Red (no gel)

SPECIMEN VOLUME: 20 mL (Red)

5 mL (Lavender)

MINIMUM VOLUME: 15 mL (Red)

3 mL (Lavender)

TEST INCLUDES: ABO/Rh, Direct Antiglobulin Tests (routine and

enhanced), Elution, and one routine and two

enhanced antibody detection tests TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days METHODOLOGY: Serological

CPT: 86850 x 5; 86860; 86870; 83880 x 7; 86900; 86901

[DBQD] DESBUQUOIS DYSPLASIA (CANT1)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily OTHER NAMES: Desbuquois Dysplasia (DBQD) via CANT1 Gene

METHODOLOGY: Sanger sequencing CPT: 81479 (full gene sequencing)

[DCX] DCX (XLIS) SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature;

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Classic Lissencephaly; X-linked lissencephaly

METHODOLOGY: Bi-directional sequence analysis CPT: 83890; 83891, 83894; 83898 x 8, 83904 x 8, 83912

[DDQNT] D-Dimer, Quantitative

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 hours

REFERENCE RANGE: < 243 ng/mL (DDU) METHODOLOGY: Turbidimetric Immunoassay

CLINICAL USE: Detection of deep vein thrombosis (DVT); evaluate

acute myocardial infarction, unstable angina, and disseminated intravascular coagulation (DIC). With this method, the cut-off level recommended for the exclusion of pulmonary embolism (PE) or deep vein thrombosis (DVT) is 500ng/mL (FEU).

CPT: 85379

[DEOX11T] Deoxycorticosterone

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 3 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

OTHER NAMES: DOC

METHODOLOGY: High Performance Liquid Chromatography/Tandem

Mass Spectrometry (LC-MS/MS)

CPT: 82633

[DES] Desipramine (Norpramine) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Lavender(EDTA) or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Therapeutic: 150-250 ng/mL

Potentially toxic: >500 ng/mL

OTHER NAMES: Norpramin; Pertofrane

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC-MS/MS)

CLINICAL USE: Monitor therapeutic drug level

CPT: 80335

[DESMOG] DESMOGLEIN 1 & 3

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 2 hours of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Desmoglein 1: < 14.0 U - Negative

Desmoglein 3: < 9.0 U - Negative

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CLINICAL USE: Aid in the diagnosis of pemphigus or monitor

treatment response in patients with a confirmed

diagnosis of pemphigus

CPT: 83516 x 2

[DEX] Dexamethasone Level

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Separate from cells within 1 hour

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days

OTHER NAMES: Decadron

METHODOLOGY: Mass Spectrometry (MS) CLINICAL USE: Therapeutic drug monitor

CPT: 80299

[DEXT] Dextromethorphan Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red or Dark Green (Heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days REFERENCE RANGE: 2.0-6.0 ng/mL

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic Drug Monitoring

CPT: 82542

[DHEA] Dehydroepiandrosterone (DHEA)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDDHEA for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: Age specific

OTHER NAMES: DHEA; Unconjugated DHEA

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Evaluate adrenal carcinomas which frequently

secrete large amounts of DHEA

CPT: 82626

[DHEAS] Dehydroepiandrosterone Sulfate

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.7 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDDHEAS for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Age specific

OTHER NAMES: DHEA-S; DHEA-SO4; DHEA Sulfate

METHODOLOGY: Electrochemiluminescence Immunoassay (ECLIA) CLINICAL USE: Work up women with infertility, amenorrhea, or

hirsutism, to identify the source of excessive androgen; aid in the evaluation of androgen

excess (hirsutism and/or virilization)

CPT: 82627

[DHEAU] Urine Dehydroepiandrosterone (DHEA)

SPECIMEN KEQUIKED: Frozen urine allquot (24-nour or random)

TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

METHODOLOGY: Radioimmunoassay (RIA) or GC/MS

CPT: 82626

[DHPR] Dihydropteridine Reductase Deficien

SPECIMEN REQUIRED: PKU card or filter paper

TUBE OR CONTAINER: PKU card or Filter paper with blood spot

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks

REFERENCE RANGE: > 0.7 nmol/min/mg Hgb

CPT: 82657

[DHT] Dihydrotestosterone

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Serum must be separated within 1 hour of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Age specific

OTHER NAMES: Androstaner-3-one; 17-(Beta); DHT; Hydroxy-5 Alpha METHODOLOGY: Radioimmunoassay (RIA) after solvent extraction

CPT: 80327

[DIB] Dibucaine Number

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER; Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Do not collect within 24 hrs of administration

of muscle relaxant; Separate from cells and transfer to plastic tube indicating on tube

"serum" or "plasma".

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: Normal: 70% to 90% inhibition

Heterozygotes: 30% to 70% inhibition Homozygotes: 0% to 30% inhibition

METHODOLOGY: Cholinesterase by spectrophotometry (Ellman) with

dibucaine inhibition

CLINICAL USE: Assess the presence of homozygous or heterozygous

"atypical" cholinesterase variant, in patients who have low result of serum or plasma

cholinesterase assay, and may be at risk of apnea

when given succinylcholine muscle relaxant

CPT: 82638

[DIG] Digoxin Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Trough: Draw immediately prior to next dose

Peak: Draw 45-60 minutes after IV injection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 ml TEST AVAILABILITY: Daily TURNAROUND TIMES: 8 hours

REFERENCE RANGE: 0.70 - 1.74 ng/mL OTHER NAMES: Lanoxin; Digitalis

METHODOLOGY: CIMA

CLINICAL USE: Diagnose and prevent toxicity, prevent underdosage

monitor therapeutic level; prevention and therapy

of cardiac arrhythmias

CPT: 80162

[DIGITX] Digitoxin Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red, Lavender (EDTA) or Gray(Sodium Fluoride)

SPECIAL HANDLING: Do NOT collect in gel barrier tube;

Serum/plasma should be separated within 2

hours of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days METHODOLOGY: Chemiluminescent

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[DIPHTHC] Diphtheria Culture

SPECIMEN REQUIRED: Throat swab embedded in Loeffler media slant

TUBE OR CONTAINER: Loeffler media

SPECIAL HANDLING: Obtain a Loeffler's media tube from the Micro

lab (refrigerated until 15 minutes before collection

Nasopharyngeal swab or throat swab (skin lesions occasionally do

occur and may be swabbed)

Swab must be placed in Loeffler's media tube and transported at

room temperature

TEST AVAILABILITY: Daily TURN-AROUND-TIME: 5 days

CLINICAL INFORMATION: Corynebacterium diphtheriae is the

causative agent of diphtheria. If isolated, the organism will

be sent to the State Health Lab for confirmation and

toxigenicity testing, and client will be notified

[DIPTHAB] Diptheria Antitoxoid

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

REFERENCE RANGE: Nonprotective: Protective: >=0.1 IU/mL

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Assess immunity against diptheria by determining

levels of circulating antibodies to diptheria toxin or to measure immune response

CPT: 86317

[DISOP] Disopyramide (Norpace) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark Green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: Therapeutic: 2.0-5.0 ug/dL

Potentially toxic: >5.0 ug/mL OTHER NAMES: Norpace

METHODOLOGY: Immunoassay

CLINICAL USE: Evaluate toxicity; monitor therapeutic levels

CPT: 80299

[DIURETIC] THIAZIDE DIURETIC PANEL

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Plastic urine container

CAUSES OF REJECTION: Urine from a preservative tube

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1.5 mL

TEST INCLUDES: Benzthiazide; Chlorothiazide; Chlorthalidone;

Furosemide; Hydrochlorothiazide; Hydroflumethiazide; Metolazone and Bumetanide

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-10 days

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection; (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 82542

[DMDDD] DUCHENNE MUSC DYSTR DEL/DUP

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 14 days

METHODOLOGY: Multiplex Ligation-dependent Probe Amplification

(MLPA)

CLINICAL USE: Appropriate first-tier genetic test for Duchenne

and Becker muscular dystrophy

CPT: 81161

[DMDSEQ] DUCHENNE MUSC DYSTR SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

METHODOLOGY: Massive Parallel Sequencing

CLINICAL USE: Order ONLY if previous DMD gene deletion/

duplication testing did not identify a causative mutation. Not recommended as initial test for

Duchenne or Becker muscular dystrophy. Recommended

first-tier tests are DMD Deletion/Duplication

CPT: 81408

[DNADAB] Anti-Double Strand DNA Antibody

SPECIMEN REQUIRED: Room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: < 5

Equivocal: 5 - 9 Positive: > 9

OTHER NAMES: Anti-N-DNA; Antinative DNA METHODOLOGY: Multiplex bead flow cytometry

CLINICAL USE: Specific assay for confirming diagnosis of

systemic lupus erythematosus (SLE)

CPT: 86225

[DNADSOMRF] Anti-Double Strand DNA Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days REFERENCE RANGE: Negative: < 10

METHODOLOGY: Crithidia

CLINICAL USE: Specific assay for confirming the diagnosis of

systemic lupus erythematosus (SLE)

CPT: 86225

[DNMT3A] DNA METHYLTRANSFERASE 3A

SPECIMEN REQUIRED: Whole blood or bone marrow at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 ml

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5-7 days

METHODOLOGY: Polymerase Chain Reaction (PCR) and Pyrosequencing

CPT: 81403

[DOCK6] ADAMS-OLIVER TYPE 2 (DOCK6)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[DRUGDEPAB] DRUG-DEPENDENT PLATELET AB

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: List each drug that is being tested; Freeze

specimen if > 5 days old SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 4-5 days

REFERENCE RANGE: No drug-dependent platelet antibodies detected

METHODOLOGY: Flow cytometry

CLINICAL USE: Evaluation of patients who develop thrombocytopenia after exposure to certain drugs

CPT: 86022

[DRUGDEPNEUT] DRUG-DEPENDENT NEUTROPHIL AB

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: List each drug that is being tested; Freeze

specimen if > 5 days old SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-8 days METHODOLOGY: Flow cytometry

CPT: 86021 (1st 3 drugs)

[DRUGMT] URINE DRUG SCREEN-MEDTOX

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 2 tube (12 mL) MINIMUM VOLUME: 1 tube (5 mL)

TEST INCLUDES: Qualitative determination of the presence of the

major metabolites of Amphetamines, Barbiturates,

Benzodiazepines, Cannabinoid (THC),

Phencyclidine, Cocaine metabolite, Opiates &

Tricyclics antidepressants TEST AVAILABILITY: Daily TURNAROUND TIME: 4 hours METHODOLOGY: Immunoassay

CLINICAL USE: Medical purposes only; not appropriate for DOT or

employment-related drug screening

CPT: G0478

[DRUGMTADD] URINE DRUG SCREEN-MEDTOX EXT

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 2 tube (12 mL) MINIMUM VOLUME: 1 tube (5 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

METHODOLOGY: Gas Chromatography-Mass Spectrometry (GCMS) CLINICAL USE: Medical purposes only; not appropriate for DOT or

employment-related drug screening

CPT: 80303

[DRUGSCRNH] HAIR DRUG SCREEN

SPECIMEN REQUIRED: Hair

TUBE OR CONTAINER: Special collection kit or wrapped in foil SPECIAL HANDLING: Contact laboratory for special collection kit

SPECIMEN VOLUME: 100 mg MINIMUM VOLUME: 10 mg

TEST INCLUDES: Screen for Amphetamines, cocaine, Marijuana,

Opiates, and Phencylidine TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 days REFERENCE RANGE: Negative

METHODOLOGY: Immunoassay screen

CPT: 80105 x 5

[DRUGSUDS] SERUM & URINE DRUG SCREEN

SPECIMEN REQUIRED: Serum AND urine

TUBE OR CONTAINER: Red AND Clear/Red Urine tube (no additive) SPECIAL HANDLING: Serum must be collected in a non-gel tube

SPECIMEN VOLUME: 3 mL serum

1 urine tube (6 mL)

MINIMUM VOLUME: 2 mL serum

1 urine tube (2 mL)

TEST INCLUDES: Quantitative Serum Drug Screen (Tricyclics,

Ethanol, Acetaminophen & Salicylate);

Amine group, Barbiturate group, Benzodiazepine, (qualitative), Cannabinoid (THC), Phencyclidine,

Cocaine metabolite, Opiates (qualitative)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours METHODOLOGY: Immunoassay CPT: G0431 x 2; 80320; 80329; G6038

[DSETOH] Urine Ethyl Alcohol Screen

[DSPCP] Urine Phencyclidine Screen

[DSRCT] DESMOPLASTIC SM ROUND CELL PCR

SPECIMEN REQUIRED: Formalin-fixed, paraffin-embedded (FFPE)

at room temperature or unstained slides TUBE OR CONTAINER: Slides or block

SPECIMEN VOLUME: 10 unstained slides 4-5 micron thick

or tissue block

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

OTHER NAMES: Desmoplastic Small Round-Cell Tumor (DSRCT) by

Reverse Transcriptase PCR (RT-PCR)

METHODOLOGY: Reverse Transcriptase PCR (RT-PCR)

CLINICAL USE: Supporting the diagnosis of desmoplastic small

round-cell tumor CPT: 81401

[DYPH] Dyphylline Level

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

OTHER NAMES: Lufyllin; Neothylline; Dilor

METHODOLOGY: High performance liquid chromatography (HPLC)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80198

[EBNGS] EPIDERMOLYSIS BULLOSA NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: Sequencing of 17 genes: COL17A1, DSP, DST, EXPH5,

FERMT1, ITGA3, ITGA6, ITGB4, JUP, KRT5, KRT14,

LAMA3, LAMB3, LAMC2, PKP1, PLEC1, TGM5

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: NextGen Sequencing (NGS)

CPT: 81406 x 2; 81479 x 15 (sequencing)

81479 (deletion/duplication)

[EBP] EBP Gene

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: X-linked dominant CDP (CDPX2); Conradi-Hunermann

syndrome via EBP gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[EBVAB] AB EPSTEIN BARR VIRUS PROFILE

SPECIMEN REQUIRED: Room Temp TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: Specimen is stable for 14 days at room temp

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: EBV-AB to early antigen, nuclear antigen, viral

capsid (IgG & IgM)

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days

REFERENCE RANGE: Negative: METHODOLOGY: Enzyme-linked immunosorbent

assay (ELISA)

CLINICAL USE: Differentiation of acute from chronic or

reactivated infection of EBV CPT: 86663, 86664, 86665 x 2

[EBVEAB] Epstein-Barr Early Antigen

[EBVEACSF] Epstein-Barr Early Antigen IgG Ab

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 0.90 IV or less: Negative

0.91-0.99 IV: Equivocal 1.00 IV or greater: Positive

OTHER NAMES: Epstein-Barr early antigen antibody, CSF

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86663

[EBVISH] Epstein-Barr Virus Tissue

SPECIMEN REQUIRED: Formalin-fixed, paraffin-embedded (FFPE)

tissue biopsy at room temperature or

Unstained slides and H&E

TUBE OR CONTAINER: Paraffin block or fresh tissue in a sterile

container in 10% neutral-buffered formalin SPECIMEN VOLUME: 5 slides & 1 H&E

TEST AVAILABILITY: Daily

REFERENCE RANGE: Not detected METHODOLOGY: In situ hybridization

CLINICAL USE: Detect EBV DNA sequences in tissue sections;

adjunct to histopathology

CPT: 88365

[EBVNAAB] Epstein-Barr Virus Nuclear Ag Ab

[EBVNACSF] Epstein-Barr Nuclear Assoc Ag IgG

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: 0.90 or less

Equivocal: 0.91-0.99 Positive: 1.00 or greater

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86664

[EBVPCRQNT] Epstein-Barr Virus DNA, Quant

SPECIMEN REQUIRED: Plasma, bronchial lavage/wash, bone marrow,

tracheal aspirate/wash at room temperature or

frozen

Frozen tissue, CSF or Fecal material

Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container, screw top tube or swab

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of

collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL plasma, CSF, bone marrow, liquid stool,

or respiratory specimens

5 mg tissue

Pea sized formed stool

MINIMUM VOLUME: 2 mL (whole blood) 0.5 mL plasma, CSF, bone marrow, liquid stool

or respiratory specimens

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[EBVVCGCSF] Epstein-Barr Virus Capsid Ag IgG Ab

SPECIMEN REQUIRED: Refrigerated or frozen CSF TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Semi-Quantitative Chemiluminescent Immunoassay

CPT: 86665

[EBVVCMCSF] Epstein-Barr Virus Capsid Ag IgM Ab

SPECIMEN REQUIRED: Refrigerated or frozen CSF TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Semi-Quantitative Chemiluminescent Immunoassay

CPT: 86665

[ECHIAB] Echinococcus Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme immunoassay (EIA)

CPT: 86682

[ECMOPFH] Plasma Free Hemoglobin

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Light Green (Lithium Heparin) SPECIAL HANDLING: Specimen should be collected without

introducing hemolysis and centrifuged and separated from red cells immediately

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Values obtained between 10-30 mg/dL should be

interpreted with caution since such variables as suboptimal venipuncture may increase result

OTHER NAMES: Free Hemoglobin; Hgb Solubility

METHODOLOGY: Spectrophotometry

CLINICAL USE: Evaluate hemolytic anemia, especially

intravascular hemolysis

CPT: 83051

[EDS4] EDS TYPE 4 (COL3A1)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 6 mL TEST AVAILABILITY: Daily

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[EDS6UR] Ehlers-Danlos Syndrome Type IV

SPECIMEN REQUIRED: Frozen urine (First-morning void)

TUBE OR CONTAINER: Urine transport container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-15 days

METHODOLOGY: High performance liquid chromatography (HPLC)

CPT: 82523

[EDSI-II] EDS TYPE I/II (COL5A1/A2)

SPECIMEN REQUIRED: Whole blood or fibroblasts at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or flasks

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily

METHODOLOGY: Next-Generation sequencing (NGS)

[EDSNGS] EHLERS-DANLOS SYNDROME NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: Sequencing of 12 genes: ADAMTS2, ATP7A, CHST14,

COL1A1, COL1A2, COL3A1, COL5A1, COL5A2, FKBP14,

FLNA, PLOD1 and SLC39A13 TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: NextGen Sequencing (NGS)

CPT: 81408 x 2; 81479 x 10 (sequencing)

81479 x 10 (deletion/duplication)

[EFAV] HIV Efavirenz Resistance

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily OTHER NAMES: Sustiva

METHODOLOGY: High-Pressure Liquid Chromatography (HPLC)

CPT: 80299

[EGFR790M] Cell-Free Fetal DNA

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Cell-Free DNA (cfDNA) BCT Tubes

SPECIAL HANDLING: Call laboratory to obtain specimen collection

tubes

SPECIMEN VOLUME: 2-10 mL tubes (20 mLs) MINIMUM VOLUME: 2-10 mL tubes (16 mLs)

TEST AVAILABILITY: Daily TURNAROUND TIME: 11-14 days

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Monitor for the development of EGFR T790M

drug-resistant mutation in patients administered tyrosine kinase inhibitor (TKI) therapy for EGFR-mutant NSCLC. Monitor response to therapy and disease progression in patients treated with EGFR

T790M-targeted drugs

CPT: 82135

[EHISAB] Entamoeba histolytica Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Ratio: Negative: Equivocal: 0.9-1.1 OD

Positive: >1.1 OD

OTHER NAMES: E. histolytica, Amebic Antibodies; Amebiasis

Antibodies

METHODOLOGY: Enzyme immunoassay (EIA)

CPT: 86753

[EHIST] Entamoeba histolytica Antigen

SPECIMEN REQUIRED: Frozen stool

TUBE OR CONTAINER: Leak-proof plastic container

SPECIMEN VOLUME: 5 grams MINIMUM VOLUME: 1 gram TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Not detected METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Confirmation of an intestinal amebiasis

CPT: 87337

[ENCCSFABG] AB ENCEPHALITIS CSF IGG

SPECIMEN REQUIRED: Refrigerated or frozen CSF TUBE OR CONTAINER: Sterile screw-cap tube

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 1.5 mL

TEST INCLUDES: Eastern & Western Equine Encephalitis IgG Ab;

St. Louis Encephalitis IgG Ab; Calif-La Crosse Enceph IgG Ab and West Nile Virus IgG Ab

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days REFERENCE RANGE: < 1:1

OTHER NAMES: Arboviral Encephalitis Antibodies IgG METHODOLOGY: Immunofluorescence assay (IFA) CLINICAL USE: Aid in the diagnosis of arboviral infection

CPT: 86651; 86652; 86653; 86654; 86789

[ENCCSFABM] AB ENCEPHALITIS CSF IGM

SPECIMEN REQUIRED: Refrigerated or frozen CSF TUBE OR CONTAINER: Sterile screw-cap tube

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 1.5 mL

TEST INCLUDES: Eastern & Western Equine Encephalitis IgM Ab;

St. Louis Encephalitis IgM Ab; Calif-La Crosse Enceph IgM Ab and West Nile Virus IgM Ab

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days REFERENCE RANGE: < 1:1

OTHER NAMES: Arboviral Encephalitis Antibodies IgM METHODOLOGY: Immunofluorescence assay (IFA)

CLINICAL USE: Aid in the diagnosis of suspected arboviral

encephalitis

CPT: 86651; 86652; 86653; 86654; 86788

[ENOLCSF] CSF Neuron Specific Enolase

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Plastic sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: 1.0 - 7.0 ug/L

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA) CLINICAL USE: Elevated serum concentrations of NSE are detected

in patients with medullary carcinoma of the thyroid, pancreatic islet cell tumor, pheochromocytoma, carcinoid, neuroblastoma and small-cell lung carcinoma (SCLC)

CPT: 83616

[ENTPCRQNT] Enterovirus RNA (RT-PCR)

SPECIMEN REQUIRED: Plasma, bronchial lavage/wash, tracheal

aspirate/wash at room temperature or frozen

Frozen tissue, CSF or Fecal material

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container or screw top tube

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL plasma, CSF, liquid stool, or respiratory

specimens 5 mg tissue

Pea sized formed stool

MINIMUM VOLUME: 3 mL (whole blood)

2 mL plasma

0.5 mL CSF, liquid stool or respiratory

specimens

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT)

CLINICAL USE: Detection of Enterovirus

CPT: 87799

[ENTTYP] ENTEROVIRUS TYPING

[EOGT] ADAMS-OLIVER TYPE 4 (EOGT)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[EOSBL] Bronchoalveolar Lavage Eosinophils

[EOSMRU] Urine Eosinophil Smear

SPECIMEN REQUIRED: Random urine

TUBE OR CONTAINER: Sterile container or slides

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: None

METHODOLOGY: Microscopic

CLINICAL USE: Investigate allergic, asthmatic disorders, and

parasitic infestations

CPT: 87205

[EPCAM] HNPCC Interpretation

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[EPILEPSY] EPILEPSY GENE PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequence Analysis of 109 genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 12 weeks

REFERENCE RANGE: No mutation detected METHODOLOGY: NextGeneration Sequencing

CPT: 81404; 81405; 81406

[ERCPEWCX] ERCP ELEVATOR WIRE CULTURE

SPECIMEN REQUIRED:

Duodenoscope brush sample submitted by endoscopy personnel in phosphate buffered saline (PBS) with 0.02% Tween-80

[ERCPICCX] ERCP INSTRUMENT CHANNEL

SPECIMEN REQUIRED:

Duodenoscope Instrument Channel Flush with sterile water submitted by endoscopy personnel.

[ERY] Erythropoietin

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Age specific OTHER NAMES: EPO; Hematopoietin

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Investigate obscure anemias and the anemia of end

stage renal disease

CPT: 82668

[ESTER] Esterase Stain

[ESTRA] Estradiol (E2) Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Gold/Red or Light Green

SPECIAL HANDLING: Stable 24 hrs Room Temp, 2 days refrigerated

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL

PEDIATRIC TEST INFO: Order PEDESTRA for pediatric testing.

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 Day REFERENCE RANGE: Male: 21-44

Normally Menstruatin Female

Follicular Phase 30 - 143 Mid-cycle peak 42 - 363 Luteal Phase 45 - 162

Post Menopausal OTHER NAMES: E2; Estradiol-17 Beta

METHODOLOGY: ECLIA

CLINICAL USE: Assess hypothalamic and pituitary function; assess

ovarian failure and follicular maturation. In males, E2 measurements may be helpful in the assessment of unexplained gynecomastia

CPT: 82670

[ESTRI] Estriol Level

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: State weeks of gestation

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: Dependent on week of gestation

OTHER NAMES: E3, Serum; Pregnancy, Estriol; Unconjugated Estriol

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Evaluate fetal distress and placental function in

the management of patients facing complications

CPT: 82677

[ESTRN] Estrone (E1)

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Patient must avoid having radioisotope scan

prior to collection of specimen;

Nonpregnant females only

Separate within 1 hour of collection

SPECIMEN VOLUME: 3 mL

MINIMUM VOLUME: 1 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

TURNAROUND TIME: 5-8 days

REFERENCE RANGE: Age and gender specific

METHODOLOGY: Liquid Chromatography tandem mass spectrometry

(LC/MS/MS)

CLINICAL USE: Evaluate postmenopausal vaginal bleeding due to

peripheral conversion of androgenic steroids

CPT: 82679

[ESTRO] Estrogen

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Green (heparin)

SPECIAL HANDLING: Patient must avoid having radioisotope scan

prior to collection of specimen SPECIMEN VOLUME: 2.8 mL

MINIMUM VOLUME: 1.1 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDESTRO for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: Age and gender specific METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Evaluate for ovarian estrogen producing tumor in

premenarcheal and post- menopausal female; evaluate estrogen excess in males; Estrogen analysis may be helpful in establishing time of ovulation and optimal time for conception

CPT: 82672

[ETGEM] E-TEST MIC, Gemella

[ETH] Ethambutol Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days OTHER NAMES: Myambutol

METHODOLOGY: Gas Chromatography/Mass Spectrometry (GC-MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[ETHGLY] Ethylene Glycol

SPECIMEN REQUIRED: Refrigerated serum TUBE OR CONTAINER: Red NO GEL

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily **TURNAROUND TIME: 72 HOURS**

REFERENCE RANGE: None detected < 10 mg/dL

OTHER NAMES: Anti-freeze

METHODOLOGY: Gas chromatography

CLINICAL USE: Detect and quantitate ingestion of ethylene glycol

CPT: 82693

[ETLAC] E-TEST MIC, Lactobacillus

[ETLEUC] E-TEST MIC, Leuconostoc

[ETMISC] E-TEST MIC, MISC

[ETSAVAN] E-TEST MIC, S.AUREUS VANCO

[EVER] Everolimus Level

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) SPECIAL HANDLING: Protect from light.

Stable 3 days Refrigerated

Draw just prior to dose (trough)
SPECIMEN VOLUME: 1 mL
MINIMUM VOLUME: 0.5 mL
TEST AVAILABILITY: Daily
TURNAROUND TIME: 24 hours
REFERENCE RANGE: 3-8 ng/mL

OTHER NAMES: Zortress, Certican, Afinitor METHODOLOGY: Turbidimetric immunoassay

CLINICAL USE: Monitor immunosuppressive therapy following organ

transplant CPT: 80169

[EVR1245] EXUDAT VITREORETINOP 1,2,4,5

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: Gene sequencing of FZD4, NDP, LRP5 and TSPAN12

TEST AVAILABILITY: Daily

OTHER NAMES: Familial Exudative Vitreoretinopathy (FEVR)

METHODOLOGY: Sanger sequencing

CPT: 81479 x 4

[FAC10] Coagulation Factor X

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 70-120%

METHODOLOGY: Clot

CLINICAL USE: Document specific factor deficiency

CPT: 85260

[FAC10CHROM] Factor X Chromogenic

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Citrated plasma samples should be collected by double centrifugation. Blood should be collected in a blue-top tube containing 3.2% buffered sodium citrate.1 Evacuated collection tubes must be filled to completion to ensure a proper blood to anticoagulant ratio.2,3 The sample should be mixed immediately by gentle inversion at least six times to ensure adequate mixing of the anticoagulant with the blood. A discard tube is not required prior to collection of coagulation samples, except when using a winged blood collection device (ie, "butterfly"), in which case a discard tube should be used.4.5 When noncitrate tubes are collected for other tests, collect sterile and nonadditive (red-top) tubes prior to citrate (blue-top) tubes. Any tube containing an alternate anticoagulant should be collected after the blue-top tube. Gel-barrier tubes and serum tubes with clot initiators should also be collected after the citrate tubes. Centrifuge for 10 minutes and carefully remove 2/3 of the plasma using a plastic transfer pipette, being careful not to disturb the cells. Deliver to a plastic transport tube, cap, and recentrifuge for 10 minutes. Use a second plastic pipette to remove the plasma, staying clear of the platelets at the bottom of the tube. Transfer the plasma into a LabCorp PP transpak frozen purple tube with screw cap (LabCorp N 49482). Freeze immediately and maintain frozen until tested.

SPECIMEN VOLUME: 1mL plasma, frozen

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days

METHODOLOGY: Factor X is activated by Russell viper venom which, in turn, hydrolyzes a chromogenic substrate to produce color.

CLINICAL USE: The chromogenic factor X activity test can be useful in monitoring patients on vitamin K antagonist therapy where baseline PT is prolonged.

CPT: 85260

[FAC11] Coagulation Factor XI

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 50-150%

METHODOLOGY: Clot

CLINICAL USE: Document specific factor deficiency

CPT: 85270

[FAC11INH] Coagulation Factor XI Inhibitor

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1.5 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.8 mL of PLASMA TEST AVAILABILITY: Daily

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days

REFERENCE RANGE:

CPT: 85335

[FAC12] Coagulation Factor XII

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA

MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 50-150%

OTHER NAMES: Hageman factor; Surface factor

METHODOLOGY: Clot

CLINICAL USE: Document specific factor deficiency

CPT: 85280

[FAC13] Coagulation Factor XIII

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TURNAROUND TIME: 3-5 days METHODOLOGY: Chromogenic

CLINICAL USE: Detect homozygous and heterozygous as well as

acquired factor XIII deficiency

CPT: 85290

[FAC2] Coagulation Factor II

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube
Testing volume: 2 mL of PLASMA
MINIMUM VOLUME: 1 full tube
Testing volume: 1 mL of PLASMA
TEST AVAILABILITY: Monday-Frid

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 70-130%

METHODOLOGY: Clot

CLINICAL USE: Document specific factor deficiency

CPT: 85210

[FAC2INH] Coagulation Factor II Inhibitor

SPECIMEN KEQUIKED: Frozen piasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 0.0-0.6 BU

CPT: 85335

[FAC5] Coagulation Factor V

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 50-150%

METHODOLOGY: Clot

CLINICAL USE: Document specific factor deficiency

CPT: 85210

[FAC5INH] Coagulation Factor V Inhibitor

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 0.0-0.6 BU

CPT: 85335

[FAC5MUT] FACTOR V MUTATION (LEIDEN)

SPECIMEN REQUIRED: Whole blood at room temperature or

refrigerated

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5-7 days REFERENCE RANGE: Normal

OTHER NAMES: Factor V Leiden DNA; Leiden factor

METHODOLOGY: Polymerase Chain Reaction (PCR) followed by

restriction enzyme digestion and gel

electrophoresis

CLINICAL USE: Detects Leiden mutation in factor V gene, causing

increased risk of thrombosis

CPT: 81241

[FAC7] Coagulation Factor VII

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 70-120%

METHODOLOGY: Clot

CLINICAL USE: Document specific factor deficiency

CPT: 85230

[FAC7INH] Coagulation Factor VII Inhibitor

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1.5 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.8 mL of PLASMA

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 0.0-0.3 BU

CPT: 85335

[FAC8] Coagulation Factor VIII

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 50-150% METHODOLOGY: Clot detection

CLINICAL USE: Document specific factor deficiency

CPT: 85240

[FAC8INH] Coagulation Factor VIII Inhibitor

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days

REFERENCE RANGE: 0.0 - 3.0 Bethesda Unit

CPT: 85335

[FAC8P] Coagulation Factor VIII

SPECIMEN KEQUIKED: Frozen piasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

Identify specimen as "PEAK"
SPECIMEN VOLUME: 1 full tube
Testing volume: 2 mL of PLASMA
MINIMUM VOLUME: 1 full tube
Testing volume: 1 mL of PLASMA
TEST AVAILABILITY: Daily

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 70-120% METHODOLOGY: Clot detection

CLINICAL USE: Document specific factor deficiency

CPT: 85240

[FAC8T] Coagulation Factor VIII

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

Identify specimen as "TROUGH" SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: > 30% METHODOLOGY: Clot detection

CLINICAL USE: Document specific factor deficiency

CPT: 85240

[FAC9] Coagulation Factor IX

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube

Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 50-150% METHODOLOGY: Clot detection

CLINICAL USE: Document specific factor deficiency

CPT: 85250

[FAC9INH] Coagulation Factor IX Inhibitor

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 0.0 - 0.81%

CPT: 85335

[FACIIPOLYM] PT 20210 (FAC II POLYMORPHISM)

SPECIMEN REQUIRED: Whole blood at room temperature or

refrigerated

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 ml

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5-7 days

OTHER NAMES: Prothrombin DNA; PT20210; Prothrombin Gene

Mutation; Factor II Polymorphism

METHODOLOGY: Polymerase Chain Reaction (PCR) and Restriction

enzyme digestion

CLINICAL USE: Detects mutation in factor II gene, causing

increased risk of thrombosis

CPT: 81240

[FACVIIAG] Coagulation Factor VII Antigen

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: 50-150%

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 85230

[FADSNGS] FADS/LETHAL MULT PTERYGIUM NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing for CHRNA1, CHRND, CHRNG, CNTN1,

DOK7, GLE1, KLHL40 and RAPSN

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Fetal Akinesia Deformation sequence/Lethal Multiple

Pterygium Syndrome NextGen sequencing (NGS) panel

METHODOLOGY: Next Generation Sequencing (NGS) and Sanger

sequencing CPT: 81479 x 8

[FAM111A] KENNY-CAFFEY TYPE 2 (FAM111A)

SPECIMEN REQUIRED: Whole blood or Cultured fibroblasts at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or T25 tissue culture flasks

SPECIMEN VOLUME: 8 mL whole blood or 2 flasks

MINIMUM VOLUME: 3 mL whole blood

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 weeks

OTHER NAMES: Kenny-Caffey syndrome, type 2 (KCS2) via FAM111A

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[FAM126A] HYPOMYELIN LEUKODYST 5(FAM126A

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

OTHER NAMES: Hypomyelination & Congenital Cataract; Hypomyelinating Leukodystrophy 5 via FAM126A gene METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[FAOFIB] Fatty Acid Oxidation

SPECIMEN REQUIRED: Cultured fibroblasts at room temperature

TUBE OR CONTAINER: Sterile flasks

SPECIMEN VOLUME: 2-T25 flasks

TEST AVAILABILITY: Daily

METHODOLOGY: Tandem Mass Spectrometry (MS-MS) for

Acylcarnitines CPT: 82017

[FBN2] FBN2 GENE (CCA-BEALS SYNDROME)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Congenital Contractural Arachnodactyly (Beals

Syndrome) via FBN2 Gene Sequencing

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[FD] FAMILIAL DYSAUTONOMIA (FD)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Detection of two mutations: IVS20+6T>C and R696P

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 weeks

OTHER NAMES: IKBKAP gene sequencing

METHODOLOGY: Polymerase Chain Reaction (PCR); primer extension;

flow-sorted bead array analysis

CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81260

[FELB] Felbamate Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Therapeutic: 25-104 ug/mL

OTHER NAMES: Felbatol

METHODOLOGY: High-Pressure liquid chromatography (HPLC) CLINICAL USE: Evaluate toxicity and monitor therapeutic level

CPT: 80299

[FER] Ferritin

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold/Red SPECIAL HANDLING: Stable at Room Temp 48 hours

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Males: 30-400 ng/mL

Females: 13-150 ng/mL METHODOLOGY: ECLIA

CLINICAL USE: Useful in the differential diagnosis of

hypochromic, microcytic anemias

CPT: 82728

[FFA] Free Fatty Acids

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Collect specimen following a 12 hour fast;

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: 0.1-0.6 mEq/L

OTHER NAMES: NEFA; Nonesterified Free Fatty Acids

METHODOLOGY: Spectrophotometric

CLINICAL USE: Helpful in the diagnosis and management of

certain diseases and disorders of metabolism and

in the evaluation of prospective causes of

hyperlipoproteinemia

CPT: 82725

[FGF23] Fibroblast Growth Factor 23

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or Green (heparin) SPECIAL HANDLING: Separate plasma from cells within 1 hour of

collection

A 12-hour fasting sample is recommended, but

not required

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in diagnosing and monitoring oncogenic

osteomalacia CPT: 83520

[FGFR1] FIBROBLAST GROWTH FACTOR 1

[FGFR2SEQ] CRANIOSYNOSTOSIS/FGFR2 GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[FGFR3PRO250] MUENKE-FGFR3 (PRO250ARG)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-10 days

OTHER NAMES: Muenke Syndrome via FGFR3 gene (PRO250ARG) METHODOLOGY: Detection of a P250R (c.749C>G) mutation by PCR

and restriction enzyme digestion

CLINICAL USE: To determine whether Muenke Syndrome is

responsible for the craniosynostosis in an

affected individual CPT: 81400

[FHAB] Complement Factor H

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 month REFERENCE RANGE: Negative

METHODOLOGY: Enzyme Linked Immuno-Sorbent Assay (ELISA)

CPT: 83516

[FHLP] FAM HEMOPHAGOCYTIC LYMPHOHIST

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 5 mL

TEST INCLUDES: Gene sequencing for RAB27A, STXBP2, PRF1, STX11

UNC13D (MUNC13-4), AP3B1, BLOC1S6, CD27, ITK, LYST, MAGT1, SH2D1A, SLC7A7 and XIAP (BIRC4)

TEST AVAILABILITY: Daily

TURNAROUND TIME: STAT: 48 HOURS (send M-W); 1 week routine OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis Panel METHODOLOGY: Next Generation (NextGen) Sequencing (NGS)

CPT: 81404; 81479 x 13

[FIB] Fibrinogen

SPECIMEN REQUIRED:

TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

Patient should not receive heparin within 1

hour of collection

PT, PTT & Fibrinogen may be performed on one

full tube

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 hours REFERENCE RANGE: 150-450 mg/dL

Anticoagulants including vitamin K antagonists, unfractionated and low molecular weight heparins, direct oral anticoagulants, and direct thrombin inhibitors can interfere with routine and specialized coagulation testing. Great care should be taken in interpretation of results when patients are anticoagulated during testing.

OTHER NAMES: Clottable Fibrinogen; Factor I Activity

METHODOLOGY: Clot detection

CLINICAL USE: Identify congenital afibrinogenemia,

disseminated intravascular coagulation, and

fibrinolytic activity

CPT: 85384

[FIBAG] Fibrinogen Antigen

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA TEST AVAILABILITY: Daily

REFERENCE RANGE: 180-350 mg/dL METHODOLOGY: Immunonephelometry

CLINICAL USE: Diagnosis of homozygous and heterozygous

fibrinogen deficiency as well as dysfibrinogenemia

Used in the diagnosis of disseminated

intravascular coagulation

CPT: 85385

[FILARIAIGG] Filaria IgG Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

REFERENCE RANGE: 0.8 IV or less: Negative

0.9-1.0 IV: Equivocal 1.1 IV or greater: Positive

METHODOLOGY: Enzyme-linked Immunosorbent Assay (ELISA)

CPT: 86682

[FIT] Stool Occult Blood Immunoassay

SPECIMEN REQUIRED: Fresh stool at room temperature

TUBE OR CONTAINER: OC-auto sampling bottle

SPECIAL HANDLING: Deliver fresh stool to Micro for transfer

into special collection kit

SPECIMEN VOLUME: 5 grams MINIMUM VOLUME: 1 gram TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

REFERENCE RANGE:

METHODOLOGY: Immunoassay

CLINICAL USE: Qualitative detection of fecal occult blood

CPT: 82274

[FLDBIL] Body Fluid Total Bilirubin

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: RED NO GEL, GOLD, LT GREEN CUP OR SYRINGE

NO EDTA

SPECIAL HANDLING: Specify source of fluid and protect from light

SPECIMEN VOLUME: Adult: 1.0 mL

Pediatric: 0.6 mL

MINIMUM VOLUME: Adult: 0.5 mL Pediatric: 0.5 mL or 1/2 microtainer TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Colorimetric Diazo

CPT: 82247

[FLT3] FLT3 INTERNAL TANDEM DUP

SPECIMEN REQUIRED: Whole blood at room temperature or bone

marrow or isolated DNA

TUBE OR CONTAINER: Lavender (EDTA); sterile container

SPECIMEN VOLUME: 5 mL (whole blood)

1 mL (bone marrow) 0.3 mL isolated DNA MINIMUM VOLUME: 2 mL (whole blood)

1 mL (bone marrow)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days

METHODOLOGY: Polymerase Chain Reaction (PCR)/capillary

electrophoresis CPT: 81245; 81246

[FLUOR] Fluoride Level

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA)

Lavender will be temporarily accepted due to royal blue shortage, but result may be reported with a disclaimer.

SPECIAL HANDLING: Please contact laboratory for correct tube;

Submit original unopened tube. Tube does not need to be spun down and plasma taken off.

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: < 0.2 mg/L METHODOLOGY: Ion-selective electrode (ISE) potentiometry

CLINICAL USE: Monitor chronic exposure to fluoride

CPT: 82735

[FLUP] Fluphenazine Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube;

Separate within 45 minutes of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 0.3-4.0 ng/mL OTHER NAMES: Prolixin; Permitil

METHODOLOGY: Liquid chromatography/Mass spectrometry (LC/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80342

[FMF] FAMILIAL MEDITERRANEAN FEVER

SPECIMEN REQUIRED: Whole blood at room temperature (ship on ice

(pack during hot weather) or buccal swab

TUBE OR CONTAINER: Lavender (EDTA) or Buccal swabs

SPECIMEN VOLUME: 5 mL or 2 swabs

MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 weeks

OTHER NAMES: MEFV Gene Sequencing

METHODOLOGY: Bi-directional sequence analysis

CPT: 81402

[FND-CFNS] FND 1/2/3 & CFNS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing of ALX1, ALX3, ALX4 and EFN1B

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

OTHER NAMES: Frontonasal dysplasia (FND) types 1, 2 & 3 via

ALX3, ALX4 and ALX1 genes and Craniofrontonasal

syndrome (CFNS) via EFN1B gene METHODOLOGY: Sanger Sequencing

CPT: 81479 x 4

[FOL] Folate

SPECIMEN REQUIRED: Serum only TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: Avoid hemolysis and protect from light

Stable 2 hours room temperature

48 hours 2-8 degrees

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 4.6 - 24.8 ng/mL

METHODOLOGY: ECLIA

CLINICAL USE: Detect folate deficiency; monitor therapy with

folate; evaluate megaloblastic & macrocytic anemia

CPT: 82746

[FORM] Formic Acid Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days

OTHER NAMES: Methanoic acid; Formate METHODOLOGY: Ion chromatography (IC)

CLINICAL USE: Exposure monitoring

CPT: 83921

[FOSPHEN] Fosphenytoin (Cerebyx) Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 10.0 - 20.0 ug/mL

OTHER NAMES: Cerebyx

METHODOLOGY: Immunoassay

CLINICAL USE: Therapeutic drug monitoring

CPT: 80185

[FOXP3] FOXP3 GENE SEQUENCING (IPEX)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 month

REFERENCE RANGE: No mutation detected

OTHER NAMES: X-linked immunodysregulation, polyendocrinopathy,

enteropathy syndrome (IPEX)

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[FRANCAB] Francisella tularensis Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days

REFERENCE RANGE: Negative: METHODOLOGY: Direct Agglutination

CLINICAL USE: Serological aid for the diagnosis of tularemia

CPT: 86000

[FRUC] Fructosamine

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold, Green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Separate from clot within 45 minutes

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate diabetic control, reflecting diabetic

control over a shorter time period (2-3 weeks) than that represented by hemoglobin A1C

CPT: 82985

[FRUCLIV] Liver Biopsy Fructose

SPECIMEN REQUIRED: Frozen liver tissue

TUBE OR CONTAINER: Sterile container

TEST INCLUDES: Fructose-1-Phosphatase, Fructose 1,6

diphosphatase, Fructose 1-Phosphate Aldolase B

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks METHODOLOGY: Enzymatic

CLINICAL USE: Definitive diagnosis of both fructose aldolase B

and fructose-1,6 diphosphatase deficiencies

CPT: 82657

[FSH] Follicle Stimulating Hormone

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Red

SPECIAL HANDLING: Stable 5 days at room temp

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL

PEDIATRIC TEST INFO: Order PEDFSH for pediatric reference range

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day REFERENCE RANGE: Females:

Follicular phase: 2.1 - 8.0 Mid-cycle peak: 2.7 - 13.5 Luteal phase: 0.8 - 7.9 Postmenopausal: 13.0 - 90.0

Males: 0.8 - 4.7

OTHER NAMES: Pituitary Gonadotropin

METHODOLOGY: ECLIA

CLINICAL USE: Useful to distinguish primary gonadal failure from

secondary (hypothalamic/pituitary) causes of gonadal failure, menstrual disturbances and amenorrhea. Useful in defining menstrual cycle phases in infertility evaluation of women and

testicular dysfunction in men

CPT: 83001

[FSHD] FACIOSCAPULOHUMERAL DYS (FSHD)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Refrigerate if not shipped Monday-Thursday

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 14-21 days

OTHER NAMES: Facioscalpulohumeral muscular dystrophy (FSHD)

METHODOLOGY: Southern blot

CLINICAL USE: Detects deletions on chromosome 4q35 associated

with FSHD CPT: 81404

[FTA] Treponema pallidum Ab (FTA-ABS)

SPECIMEN KEQUIKED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: Nonreactive

OTHER NAMES: Fluorescent Treponemal Antibody Test; FTA-Ab

METHODOLOGY: Indirect fluorescent antibody (IFA)

CLINICAL USE: Confirm syphilis

CPT: 86780

[FTACSF] CSF Treponema pallidum Ab (FTA-ABS)

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.5 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Nonreactive

METHODOLOGY: Indirect fluorescent antibody (IFA) CLINICAL USE: Confirm presence of antibody and establish

diagnosis of neurosyphilis

CPT: 86780

[FUNGITELL] Beta-(1,3)-D-Glucan

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Gold

SPECIAL HANDLING: Do NOT transfer; send in original tube

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: < 60 pg/mL

Indeterminate: 60 - < 79 pg/mL

Positive: >/= 80 pg/mL

OTHER NAMES: Beta-(1,3)-D-Glucan

METHODOLOGY: Limulus amebocyte Lysate (LAL) pathway CLINICAL USE: Aids in the presumptive diagnosis of invasive

fungal disease through detection of elevated

levels of (1,3)-B-D-glucan

CPT: 85130

[FUNGITELLCSF] CSF (1-3)-B-D-glucan Assay

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: CSF TUBE

SPECIAL HANDLING: Do NOT transfer; send in original tube

SPECIMEN VOLUME: 2 ml MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: < 60 pg/mL

Indeterminate: 60 - < 79 pg/mL

Positive: >/= 80 pg/mL

OTHER NAMES: Beta-(1,3)-D-Glucan

METHODOLOGY: Limulus amebocyte Lysate (LAL) pathway CLINICAL USE: Aids in the presumptive diagnosis of invasive

fungal disease through detection of elevated

levels of (1,3)-B-D-glucan

CPT: 87449

[FUNID] FUNGUS IDENTIFICATION

[FUNMIC:MOLD] SUSCEPTIBILITY TEST: MOLD

This test may be ordered only by special request. The physician must call the Microbiology Lab and discuss the request with a senior technologist or supervisor. Call 1-4006 for further information.

Each anti-fungal requested will be billed separately.

[FUNPCR] 16s rRNA (PCR)

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[FUNSENS] FUNGUS SENSITIVITY TEST ONLY

[FUNSYNREF] Synergy Fungal Susc- Referred

[FYAFYB] DUFFY (FYA/FYB) RED CELL AG

SPECIMEN REQUIRED: Whole blood from mother & father and

amniotic fluid at room temperature

TUBE OR CONTAINER: Lavender (EDTA) and sterile container

SPECIMEN VOLUME: 5 mL (whole blood-each parent)

15 mL (amniotic fluid)

MINIMUM VOLUME: 3 mL (whole blood-each parent)

7 mL (amniotic fluid)

TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days

METHODOLOGY: Allele-specific PCR

CPT: 81479; 86905 x 2 (Parental)

CPT: 81479 x 2; 86905 x 2 (Prenatal)

[GABA] Gabapentin Level

SPECIMEN REQUIRED: Room temperature serum or plasma

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7 days

REFERENCE RANGE: 4.0-16.0 ug/mL

OTHER NAMES: Neurontin

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Monitor dosage adjustment and toxicity

CPT: 80171

[GADAB] Glutamic Acid Decarboxylate Ab

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.4 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0-5.0 units/mL

OTHER NAMES: Anti-GAD; GAD65; GADAb

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in the diagnosis of type 1 diabetes mellitus

(autoimmune mediated diabetes)

CPT: 83519

[GADCSF] Glutamic Acid Decarboxylate Ab

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: 0.0-5.0 IU/mL

OTHER NAMES: Beta-Cell Autoantibody to GAD 65; GAD Antibody;

GAD-65 (Glutamic Acid Decarboxylase Antibody)

METHODOLOGY: Quantitative Enzyme-Linked Immunosorbent Assay

(ELISA)

CLINICAL USE: Used in evaluating patients with stiff-man

syndrome, autoimmune cerebellitis and other acquired central nervous system disorders affecting gabaminergic neurotransmission

CPT: 83516

[GADOL] Gadolinium Level

SPECIMEN REQUIRED: Refrigerated, frozen or room temperature

serum

TUBE OR CONTAINER: Royal Blue (plain-no additive)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 Days

REFERENCE RANGE: METHODOLOGY: Inductively coupled plasma-mass

spectrometry (ICP-MS)

CLINICAL USE: Monitor exposure to gadolinium-containing chelates

CPT: 83018

[GAGSU] Urine Glycosaminoglycans

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Early morning specimens are preferred

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 10-14 days

CLINICAL USE: Use to MONITOR glycosaminoglycans (GAGs) in

patients previously diagnosed with a mucopolysaccharidosis (MPS).

CPT: 83864

[GAGSUP] URINE GLYCOSAMINOGLYCANS SCRN

SPECIMEN REQUIRED: Frozen urine (random)
TUBE OR CONTAINER: Plastic urine container
SPECIAL HANDLING: First morning void preferred

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 10 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-15 days

OTHER NAMES: Mucopolysaccharides Screen

METHODOLOGY: Electrophoresis and Spectrophotometry

CLINICAL USE: Evaluate symptomatic patients for

mucopolysaccharidoses (MPS)

CPT: 82664; 83864

[GAL1PRBC] GALACTOSE-1-PHOSPHATE RBC

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Dark green (heparin) SPECIAL HANDLING: Place tube on wet ice immediately after

collection; Must ship same day as collected if

sending whole blood; Must arrive in lab Monday-Friday only before noon

SPECIMEN VOLUME: 5 mL (whole blood)

MINIMUM VOLUME: 2 mL (whole blood

TEST AVAILABILITY: Monday-Thursday (whole blood)

TURNAROUND TIME: 3-10 days

REFERENCE RANGE: Galactose-1-phosphate: 0.0-1.0 mg/dL

Galactose-1-phosphate (ug/g Hb): 0-53 ug/g Hb Galact-1-phosph(umol/g Hb): 0.00-0.20 umol/g Hb

METHODOLOGY: Gas Chromatography-Mass Spectrometry CLINICAL USE: Monitoring the dietary management of

galactosemics CPT: 82775

[GALACT] GALACTOKINASE

SPECIMEN REQUIRED: Refrigerated whole blood TUBE OR CONTAINER: Dark green (heparin)

SPECIAL HANDLING: Specimen must arrive at performing lab within

48 hours of collection

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-8 days

REFERENCE RANGE: < 2 years: 20.1 - 79.8 mU/g of hemoglobin

> 2 years: 12.1 - 39.7 mU/g of hemoglobin

METHODOLOGY: Radioisotopic

CPT: 82759

[GALACTOSE] Galactose Total

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Light green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: 1-7 days: 8-14 days: >14 days: METHODOLOGY:

Spectrophotometry

CPT: 82760

[GALACTU] Urine Galactose

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: METHODOLOGY: Spectrophotometric, Kinetic

CPT: 82542

[GALACU] Urine Galactitol

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

REFERENCE RANGE: Values are expressed as mmol/mol creatinine

Normal Galactosemia

1-6 years: 0-45.3 (n=34) 194-620 (n=38) >6 years: 0-18.4 (n=30) 98-282 (n=32)

METHODOLOGY: Gas chromatography/Mass Spectrometry (GCMS)

CLINICAL USE: Diagnosis and monitoring of galactosemia

CPT: 84378

[GALCWBC] GALACTOCEREBROSIDASE WBC

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Yellow (ACD)

SPECIAL HANDLING: Do NOT transfer specimen to other containers

Collect Monday-Thursday only; must arrive at performing lab within 48 hours of collection

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 5 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 9-16 days

REFERENCE RANGE: > or =1.20 nmol/h/mg protein

METHODOLOGY: Radioisotopic

CLINICAL USE: Diagnosis of Krabbe disease

CPT: 82658

[GALE] EPIMERASE DEF GALACTOSEM(GALE)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Epimerase Deficiency Galactosemia via the GALE gene

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[GALECT3] Galectin-3

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in assessing the prognosis of patients with

chronic heart failure

CPT: 82777

[GANCIC] Ganciclovir Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[GAST] Gastrin

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold specimen not received frozen; gross

lipemia; plasma specimen

SPECIAL HANDLING: Patient must fast 12-14 hours or overnight;

separate & freeze immediately SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: Age specific

METHODOLOGY: Immunochemiluminometric Assay (ICMA)

CLINICAL USE: Diagnose Zollinger-Ellison syndrome and gastrinoma

CPT: 82491

[GDF6] KLIPPEL-FEIL SYND (GDF6 GENE)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Bi-directional sequencing

CPT: 81479

[GENBCFP] GenMark BCFP Nucleic Acid Test

[GENBCGN] GenMark BCGN Nucleic Acid Test

[GENBCGP] GenMark BCGP Nucleic Acid Test

[GENBCGP2] GenMark BCGP Nucleic Acid #2

[GENT] Random Gentamicin Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

OTHER NAMES: Garamycin

METHODOLOGY: Turbidimetric inhibition immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80170

[GENTP] Gentamicin Level Peak

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Draw 45-60 minutes after IV injection, 30

minutes after the end of 30 minute IV infusion or immediately after 60 minute IV infusion Stable 1 week 2-8 degrees separated from cells

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 5.0 - 12.5 ug/mL

OTHER NAMES: Garamycin

METHODOLOGY: Turbidimetric inhibition immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80170

[GENTT] Gentamicin Level Trough

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Draw immediately prior to next dose

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: < 2.1 ug/mL

OTHER NAMES: Garamycin

METHODOLOGY: Turbidimetric inhibition immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80170

[GGT] Gamma Glutamyl Transpeptidase

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Stable 7 days at 15-25 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Female: 12-81 U/L

Male: 6-65 U/L

METHODOLOGY: Enzymatic colorimetric

CLINICAL USE: Biliary enzyme that is useful in the diagnosis of

obstructive jaundice, intrahepatic cholestasis,

and pancreatitis CPT: 82977

[GH] Human Growth Hormone

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Patient must be fasting and at complete rest

30 minutes before drawing. No isotopes administered 24 hours prior to collection Specimen must be free from hemolysis and

lipemia

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 days

REFERENCE RANGE: 0.0 - 10.0 ng/mL

OTHER NAMES: HGH; Human Growth Hormone; Somatotropic Hormone;

Somatotropin

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Pituitary function test useful in the diagnosis of

hypothalamic disorder, hypopituitarism,

acromegaly, and ectopic growth hormone production

by neoplasm CPT: 83003

[GHAB] Growth Hormone Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate serum from cells within one hour of

collection

SPECIMEN VOLUME: 2 ml MINIMUM VOLUME: 0.5 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

METHODOLOGY: HGH-I125 binding capacity

CPT: 86277

[GHBP] Growth Hormone Binding Protein

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-18 days

METHODOLOGY: Ligand binding immunoprecipitation assay (LIA)

CPT: 83519

[GHRGENE] LARON SYND/DWARFISM VIA GHR

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Laron Syndrome/Pituitary Dwarfism II (Growth

Hormone Insensitivity) via the GHR gene

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81405

[GIAANT] Giardia Antigen

SPECIMEN REQUIRED: Raw stool

TUBE OR CONTAINER: Para-Pak Formalin vial (pink top)

ORDERING MODULE: MIC

SPECIMEN VOLUME: 5 mL or walnut-size portion (minimum)

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Diagnosis of infection with Giardia; Giardia

antigen is 50% more sensitive than O&P exam

CPT: 87329

[GILB] GILBERT/CRIGLER-NAJJAR-UGT1A1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: DNA sequence analysis of all 5 exons of the

UGT1A1 gene

TEST AVAILABILITY: Daily

TURNAROUND TIME: 2-3 weeks

OTHER NAMES: UDP- Glucuronosyl Transferase 1A1 (UGT1A1) full

gene sequencing, Gilbert Syndrome or

Crigler-Najjar Syndrome

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[GLA] FABRY DISEASE via GLA GENE

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks OTHER NAMES: GLA Gene Sequencing

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81405

[GLI3] GLI3 MUTATION

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: 2-3 weeks

OTHER NAMES: Pallister-Hall Syndrome (PHS) METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[GLOMAB] Anti-Glomerular Basement Memb Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.6 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 3.0 units/mL

OTHER NAMES: Anti-GBM; Goodpasture Syndrome METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Detect the presence of circulating glomerular

basement membrane-specific antibodies in

Goodpasture's syndrome

CPT: 83520

[GLU] Glucose Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Gray

SPECIAL HANDLING: Fasting sample recommended. Centrifuge and

separate from cells promptly.

Stable 8 hours at room temp if serpated from

cells

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 days: 43-116 mg/dL

1 month +: 68-116 mg/dL

METHODOLOGY: Hexokinase with G6PD

CLINICAL USE: Evaluate carbohydrate metabolism, acidosis and

ketoacidosis, dehydration, work-up alcoholism, or

apparent alcoholism, work-up coma, or

neuroglycopenia CPT: 82947

[GLU1] Glucose 1 Hour

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Gray SPECIAL HANDLING: Separate serum from cells promptly

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 days: 40-110 mg/dL

1 month +: 65-110 mg/dL

METHODOLOGY: Oxygen rate electrode

CPT: 82950

[GLU2PP] Glucose 2 Hour Postprandial

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Gray, Light Green (heparin) or Gold

SPECIAL HANDLING: Centrifuge and remove serum/plasma from cells

promptly; indicate time of last meal or post-

prescribed dosage of glucola SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Oxygen rate electrode may be used along with FBS to follow patients

with impaired glucose tolerance

CPT: 82947

[GLU30] Glucose 1/2 Hour

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Gray SPECIAL HANDLING: Separate serum from cells promptly

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Oxygen rate electrode

[GLUC] Glucagon Level

SPECIMEN REQUIRED: Frozen plasma with Trasylol TUBE OR CONTAINER: Chilled Lavender (EDTA)

SPECIAL HANDLING: Overnight fast recommended for basal level.

No isotopes administered 24 hours prior to collection. Patient should not be in a stress state at time of drawing. If diabetic, patient

should be in good control

Collect one full chilled tube. Transfer to a red-top tube containing 0.25 mL Trasylol

Mix well, centrifuge and freeze SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days REFERENCE RANGE: 50-150 pg/mL OTHER NAMES: Pancreatic glucagon

METHODOLOGY: Radioimmunoassay (RIA) CLINICAL USE: Aid in diagnosis of glucagonoma

CPT: 82943

[GLUCSF] CSF Glucose

SPECIMEN REQUIRED: Refrigerated cerebrospinal fluid (CSF)

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-12 years: 64-86 mg/dL

13 years+: 43-75 mg/dL

METHODOLOGY: Hexokinase with G6PD

CLINICAL USE: Evaluate meningitis, neoplastic involvement of

meninges, other neurological disorders;

CPT: 82945

[GLUF] Fasting Glucose

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Gray, Gold, or Light Green (heparin) SPECIAL HANDLING: Separate serum from cells promptly

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 68-116 mg/dL

METHODOLOGY: Hexokinase with G6PD

CPT: 82947

[GLUFL] Body Fluid Glucose

SPECIMEN REQUIRED: Refrigerated body fluid (except for amniotic

fluid)

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Hexokinase with G6PD

CPT: 82945

[GLU-INS] Insulin Response to Glucose

SPECIMEN REQUIRED: Refrigerated plasma and serum

TUBE OR CONTAINER: Gray or Light Green (heparin) and Gold SPECIAL HANDLING: For valid results, the patient must be fasting

for at least eight hours, abstain from all food and liquids (even water) during testing period, no smoking and should refrain from

walking or other activity as much as possible.

Collect a baseline (fasting), 1 & 2 hour

post-dose; Label each with appropriate time

interval (i.e., fasting, two hours, etc).

Centrifuge and remove from cells promptly SPECIMEN VOLUME: 1 mL each specimen MINIMUM VOLUME: 0.5 mL each specimen

TEST INCLUDES: Fasting glucose & insulin, one hour glucose &

insulin, two hour glucose & insulin TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Oxygen rate electrode and Competitive Immunoassay

CPT: 82951

[GLUPC] Pericardial Fluid Glucose

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Hexokinase with G6PD

CPT: 82945

[GLUPL] Pleural Fluid Glucose

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Hexokinase with G6PD

CLINICAL USE: Decreased fluid glucose concentration is usually

associated with septic or inflammatory processes

CPT: 82945

[GLUPT] Peritoneal Fluid Glucose

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: None established METHODOLOGY: Hexokinase with G6PD

CPT: 82945

[GLUR] Urine Random Glucose

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 2 tube (10 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: No range established METHODOLOGY: Hexokinase with G6PD

CLINICAL USE: Aid in the evaluation of glucosuria, renal

tubular defects; manage diabetes mellitus

CPT: 82945

[GLUSY] Synovial Fluid Glucose

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Hexokinase with G6PD

CPT: 82945

[GLUTAC] GLUTARIC ACID

SPECIMEN REQUIRED: Refrigerated or Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Centrifuge and separate within 45 minutes of

collection

SPECIMEN VOLUME: 0.1 mL MINIMUM VOLUME: 0.02 mL

TEST INCLUDES: Glutaric Acid, 3-Hydroxyglutaric acid,

2-Hydroxyglutaric acid, Ethylmalonic acid, and

Methylsuccinic acid

TEST AVAILABILITY: Monday and Wednesday

TURNAROUND TIME: 10 days

METHODOLOGY: Liquid Chromatography-Tandem mass

spectrometry (LC-MS/MS)

CLINICAL USE: Diagnosis and treatment of glutaric acidemia

types I and II CPT: 83921

[GLUTCSF] CSF Glutamine

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: CSF transport tube

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

METHODOLOGY: High-pressure liquid chromatography (HPLC)

CPT: 82131

[GLYC] Glycine Level

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Light Green or Dark green (heparin) SPECIAL HANDLING: Separate and freeze within 1 hour of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

METHODOLOGY: Ion exchange chromatography

CPT: 82131

[GLYCCSF] CSF Glycine

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: CSF transport tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

METHODOLOGY: Ion exchange chromatography

CPT: 82131

[GLYCO] 1,5-Anhydroglucitol (1,5-AG)

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.75 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE:

< 18 years: no range established Adult males: 10.7-32.0 g/mL Adult females: 6.8-29.3 g/mL

Glycemic control goal for diabetic patients: >10 OTHER NAMES: 1,5-Anhydroglucitol (1,5-AG) METHODOLOGY: Enzymatic, Colorimetric assay

CLINICAL USE: Reflective of Mealtime Spikes and thus is a

complement to A1C testing for those who are

seeking a lower treatment target

CPT: 84378

[GLYSDIA] GLYCOGEN STORAGE DIS TYPE Ia

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: von Gierke Disease, G6PC Exon sequencing

METHODOLOGY: Bi-directional Sanger Sequencing

CLINICAL USE: Confirm diagnosis; Carrier testing and prenatal

diagnosis CPT: 81479

[GM1AB] Ganglioside (GM1) Antibodies

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL

TEST INCLUDES: IgG and IgM antibodies

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-14 days

REFERENCE RANGE: IgG: IgM: OTHER NAMES: Ganglioside Monosialic Ab

METHODOLOGY: Enzyme-linked Immunosorbent assay (ELISA)

CPT: 83520 x 2

[GM-CSF] Granulocyte-Macrophage CSF Antibody

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: < 0.5 pg/mL

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[GQ1BAB] GQ1b Antibodies

SPECIMEN REQUIRED: Refrigerated or room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-14 days REFERENCE RANGE: < 1:100

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[GRAB] Anti-Granulocyte Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Negative OTHER NAMES: Neutrophil Antibody METHODOLOGY: Flow Cytometry

CLINICAL USE: Detect presence of neutrophil antibody that has

has been implicated in causing neutropenia of various autoimmune disorders including Felty's syndrome, SLE and drug-induced neutropenia

CPT: 86021

[GRAMCSF] Gram Stain

CPT: 87205

[GRAMSP] Gram Stain Sputum Screen

[GRAMST] Gram Stain

SPECIMEN REQUIRED: Material or swab from infected area TUBE OR CONTAINER: Sterile container, Swab or slide

SPECIAL HANDLING: Indicate source of specimen

Gram stains are routinely performed with many

cultures; in those cases, it is not necessary

to order gram stain separately. Refer to the

specific culture to determine if gram stain is

included; Sources that are usually excluded

and must be ordered separately include URINE &

STOOL. It is usually more appropriate to order

a Fecal WBC smear on Stool

Call Micro Lab at 271-4006 with questions

Instructions for sending slide: Carefully select material from infected area with a sterile swab. Gently roll swab

onto a clean glass slide to make a thin smear. Air dry

the slide. Do not fix. Maintain at room temperature.

Submit in slide holder (cardboard or plastic). Label the

slide and the slide holder with the patient's name.

ORDERING MODULE: MIC

SPECIMEN VOLUME: Smear (air-dried) made at bedside or

immediately after collection is preferred or one made in lab from swab or clinical material

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

CLINICAL USE: Determine the presence of microorganisms and to

evaluate type of specimen by type of cells seen

CPT: 87205

[GSD1B] GLYCOGEN STORAGE 1b (SLC37A4)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

REFERENCE RANGE: No mutation detected

OTHER NAMES: Glycogen Storage Disease type 1b via SLC37A4 gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81406

[GSD3] GLYCOGEN STORAGE TYPE 3 (AGL)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

OTHER NAMES: AGL Gene Sequencing

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81407

[GSD6TX] Glycogen Storage Disease Screen

SPECIMEN REQUIRED: Liver tissue

TUBE OR CONTAINER: SPECIMEN VOLUME: MINIMUM VOLUME:

TEST AVAILABILITY: Daily

TURNAROUND TIME:

OTHER NAMES: Liver Phosphorylase Deficiency; GSD Type VI; Hers

Disease

CLINICAL USE: Provide definitive diagnosis

CPT: 82657

[GSD7] GLYCOGEN STORAGE 7 (PFKM)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

REFERENCE RANGE: No mutation detected

OTHER NAMES: Tarui Disease; PFKM gene sequencing METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[GSD9ENZ] Glycogen Storage Disease Screen

SPECIMEN REQUIRED: Whole blood refrigerated (patient and non-

related control) or Liver, Heart

or Muscle tissue frozen

TUBE OR CONTAINER: Lavender (EDTA) or sterile container SPECIAL HANDLING: Blood samples must arrive in Lab Monday-

Thursday only by 1:00 pm; must be shipped same day as collected along with a control sample from a non-family member

SPECIMEN VOLUME: 10 mL (blood) MINIMUM VOLUME: 3 mL (blood)

TEST AVAILABILITY: Monday-Thursday

OTHER NAMES: Phosphorylase b Kinase (PhK) Deficiency; GSD Type

IX

CLINICAL USE: Provide definitive diagnosis

CPT: 82657

[GTS] Gestational Glucose Tolerance Test

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Gray, Light Green(heparin) or Gold SPECIAL HANDLING: Collect a one hour post administration

of 50 gram (half-bottle) glucola;

Centrifuge and remove serum or plasma from cells promptly; No urine specimens need to be collected

This procedure for pregnant females only

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Oxygen rate electrode

CLINICAL USE: Test on pregnant women only; recommended by the

American College of Obstetrics and Gynecologists

to determine maternal diabetic state

A positive screen should be followed by a 3-hour

glucose tolerance test for confirmation on a

subsequent day CPT: 82950

[GTT2] Glucose Tolerance Test

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Gray, Light Green (heparin) or Gold

SPECIAL HANDLING: For valid results, the patient must be fasting

for at least eight hours, abstain from all

food and liquids (even water) during testing

period, no smoking and should refrain from

walking or other activity as much as possible.

Collect a baseline (fasting) and two hours

post-dose; Label each with appropriate time

interval (i.e., fasting, two hours, etc).

Centrifuge and remove from cells promptly; no

urine specimens need to be collected

SPECIMEN VOLUME: 1 mL each specimen MINIMUM VOLUME: 0.5 mL each specimen

TEST INCLUDES: Fasting glucose, two-hour glucose

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Oxygen rate electrode

CPT: 82950

[GTT3] Glucose Tolerance Test

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Gray, Light Green (heparin) or Gold

SPECIAL HANDLING: For valid results, the patient must be fasting

for at least eight hours, abstain from all

food and liquids (even water) during testing

period, no smoking and should refrain from

walking or other activity as much as possible.

Collect a baseline (fasting), 1, 2, & 3 hour

post-dose; Label each with appropriate time

interval (i.e., fasting, two hours, etc).

Centrifuge and remove from cells promptly; no

urine specimens need to be collected

SPECIMEN VOLUME: 1 mL each specimen MINIMUM VOLUME: 0.5 mL each specimen

TEST INCLUDES: Fasting glucose, one hour glucose, two hour

glucose, and three hour glucose TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Hexokinase with G6PD

CPT: 82951

[GTT5] Glucose Tolerance Test

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Gray, Light Green (heparin) or Gold

SPECIAL HANDLING: For valid results, the patient must be fasting

for at least eight hours, abstain from all

food and liquids (even water) during testing

period, no smoking and should refrain from

walking or other activity as much as possible.

Collect a fasting, 1, 2, 3, 4 and 5 hour

post-dose; Label each with appropriate time

interval (i.e., fasting, two hours, etc).

Centrifuge and remove from cells promptly; no

urine specimens need to be collected

SPECIMEN VOLUME: 1 mL each specimen MINIMUM VOLUME: 0.5 mL each specimen

TEST INCLUDES: Fasting glucose, one, two, three, four and five

hour glucose

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

METHODOLOGY: Oxygen rate electrode

[H1N12009] 2009 Influenza A (H1N1)

[HADHB] TRIFUNCTIONAL PROTEIN (HADHB)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: Trifunctional Protein Deficiency; HADHB gene

sequencing

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81406

[HAMA] Human Anti-Mouse Antibodies

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.2 mL (This volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0-188 ng/mL

METHODOLOGY: Enzyme immunoassay (EIA)

[HAPQNT] Haptoglobin

SPECIMEN REQUIRED: Serum or heparin plasma

TUBE OR CONTAINER: Gold, Red or Light Green (heparin) SPECIAL HANDLING: Stable 3 months at 15-25 degrees

SPECIMEN VOLUME: 1 mL
MINIMUM VOLUME: 0.5 mL
TEST AVAILABILITY: Daily
TURNAROUND TIME: 24 hours
REFERENCE RANGE: 42-217 mg/dL
METHODOLOGY: Immunoturbidimetric
CLINICAL USE: Work-up for hemolytic state

CPT: 83010

[HARMONY] HARMONY PRENATAL TEST

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Black & Tan (special collection kit)

SPECIMEN VOLUME: 20 mL (2 tubes-10 mL each) MINIMUM VOLUME: 10 mL (2 tubes-5 mL each)

TEST INCLUDES: Risk determination for trisomy 13 (Patau

syndrome), trisomy 18 (Edwards syndrome), and

trisomy 21 (Down syndrome) TEST AVAILABILITY: Daily TURNAROUND TIME: 9-12 days REFERENCE RANGE: By report

CLINICAL USE: Detection of fetal trisomies 13, 18, and 21 in

pregnancies (single fetus) of 10 weeks or more CPT: 83891; 83900; 83901; 83904; 83914; 83912

[HAVAB] Hepatitis A Antibody Total

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Lavender (EDTA), Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Measurement of both IgG and IgM forms of the

antibody; reported as the total antibody TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Non-Reactive

METHODOLOGY: Electrochemiluminescence (ECLIA) CLINICAL USE: Differential diagnosis of hepatitis; in

conjunction with anti-HAV, IgM to confirm

immunity to hepatitis A

CPT: 86708

[HAVMAB] Hepatitis A IgM Antibody

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Lavender (EDTA), Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Non-Reactive

METHODOLOGY: Electrochemiluminescence (ECLIA)

CLINICAL USE: Differential diagnosis of hepatitis; the presence

of IgM antibody to hepatitis A is good evidence

for acute hepatitis A

CPT: 86709

[HBCAB] Hepatitis B Core Total Antibody

SPECIMEN REQUIRED: Refrigerated EDTA plasma or serum TUBE OR CONTAINER: Lavender (EDTA), Red or Gold serum

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: Daily - Weekdays REFERENCE RANGE: Non-Reactive

METHODOLOGY: Electrochemiluminesence (ECLIA) CLINICAL USE: Differential diagnosis of hepatitis

CPT: 86704

[HBCMAB] Hepatitis B Core IgM Antibody

SPECIMEN REQUIRED: Refrigerated EDTA plasma or serum TUBE OR CONTAINER: Lavender (EDTA), Red or Gold serum

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: Daily - Weekdays REFERENCE RANGE: Non-Reactive

METHODOLOGY: Electrochemiluminescence (ECLIA)

CLINICAL USE: Reliable marker for acute disease for a hepatitis

B viral infection; at times this marker is the the only one demonstrated for diagnosis. Not recommended outside Acute Hepatitis Profile.

CPT: 86705

[HBEAB] Hepatitis Be Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.4 mL (this volume does not allow for repeat

testing)

TURNAROUND TIME: 2 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Differential diagnosis, staging, and prognosis of

hepatitis B infection

CPT: 86707

[HBEAG] Hepatitis Be Antigen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1.5 mL

MINIMUM VOLUME: 0.6 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Differential diagnosis, staging, and prognosis of

hepatitis B infection

CPT: 87350

[HBSAB] Hepatitis B Surface Antibody

SPECIMEN REQUIRED: Refrigerated EDTA plasma or serum TUBE OR CONTAINER: Lavender (EDTA), Red or Gold serum

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: Daily - Weekdays REFERENCE RANGE: Non-Reactive

METHODOLOGY: Electrochemiluminescence (ECLIA)

CLINICAL USE: Presence of Hepatitis B Surface Ab is an indicator

of clinical recovery and subsequent immunity

CPT: 86706

[HBSAG] Hepatitis B Surface Antigen

SPECIMEN REQUIRED: Refrigerated EDTA plasma or serum TUBE OR CONTAINER: Lav (EDTA), Red or Gold serum

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: Daily - weekdays

REFERENCE RANGE: Non Reactive

METHODOLOGY: Electrochemiluminescence (ECLIA)

REFLEX TEST INFORMATION: All positives, will reflex a viral

neutralization test for confirmation

CLINICAL USE: Earliest indicator of the presence of acute

infection; useful for the differential diagnosis

of hepatitis CPT: 87340

[HBSQNT] Hepatitis B Surface Antibody, Quant

SPECIMEN REQUIRED: Refrigerated EDTA plasma or serum TUBE OR CONTAINER: Lavender(EDTA), Red or Gold serum

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours

REFERENCE RANGE: Negative: Inconsistent with immunity < 8.5

Indeterminate: 8.5 - 11.5

Positive: Consistent with Immunity > 11.5 METHODOLOGY: Chemiluminescence

CLINICAL USE: Evaluation of possible immunity

CPT: 86317

[HBSVIR] Hepatitis B Surface Ag Neutralizatn

[HBVDNAQNT] HBV DNA PCR QUANTITATIVE

SPECIMEN REQUIRED: Frozen plasma or serum

TUBE OR CONTAINER: Lavender (EDTA), Red or Gold SPECIAL HANDLING: Separate and freeze within 6 hours of

collection

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL 0.7 mL (pediatric minimum) TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days METHODOLOGY: COBAS; TagMan

CLINICAL USE: Detect mutations in viral polymerase of hepatitis

B virus genome; detect mutations associated with

resistance to nucleoside analogues such as

lamivudine (Epivir)

CPT: 87517

[HBVGENDR] HBV GENOTYPE & DRUG RESISTANCE

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD) SPECIAL HANDLING: Separate and freeze within 6 hours of

collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1.5 mL

TEST INCLUDES: HBV Genotype and Drug Resistance

TEST AVAILABILITY: Daily

METHODOLOGY: Polymerase chain reaction (PCR) amplification and

DNA sequencing

CLINICAL USE: Data generated in the genotyping assay is

subsequently analyzed for mutations in the reverse

transcriptase gene of HBV associated with

resistance to therapeutic agents

CPT: 87900; 87912

[HBVGENO] HBV GENOTYPE

SPECIMEN REQUIRED: Frozen plasma or serum

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD) or Gold

SPECIAL HANDLING: Separate and freeze within 6 hours of

collection

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

METHODOLOGY: Polymerase chain reaction (PCR) amplification and

DNA probe

CLINICAL USE: Classifies the virus present in the sample into

one of eight recognized genotypes (A-H) via sequence analysis of the DNA polymerase gene. Disease progression and response to therapy may be

influenced by genotype. In addition, the HBV genotype assay identifies and reports sequence

polymorphisms in the basal core promotor (BCP) and

coding regions of the HBV precore gene that result

in either decreased levels, or complete absence,

of HBeAg expression in chronically infected

patients type-specific sequences in the HBV polymerase

CPT: 87912

[HCGCSF] CSF Tumor Marker HCG

SPECIMEN REQUIRED: Refrigerated or frozen CSF

TUBE OR CONTAINER: Sterile, plastic tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 0-3 mIU/L

METHODOLOGY: Immunochemiluminometric Assay (ICMA) CLINICAL USE: Aid in following treatment response and tumor

recurrence in non-seminoamatous testicular cancer

CPT: 84702

[HCGQL] Serum Pregnancy Test, Qualitative

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative METHODOLOGY: Immunoassay

CLINICAL USE: Provides sensitive and specific test for detection

of early pregnancy, diagnose ectopic pregnancy, or

threatened abortion

CPT: 84703

[HCGQLU] Urine Pregnancy Test

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIAL HANDLING: First-morning urine is the preferred sample

as it usually contains the highest concentration of Beta-hCG

SPECIMEN VOLUME: 1 tube (2 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative METHODOLOGY: Immunoassay

CLINICAL USE: Provides a sensitive and specific test for the

detection of early pregnancy

CPT: 81025

[HCGQNT] Human Chorionic Gonadotropin, Quant

SPECIMEN REQUIRED: Serum or Plasma TUBE OR CONTAINER: Gold. Red or Lt Green

SPECIAL HANDLING: Stable 5 days at 20-25 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Female: >=30.0 mIU/mL - Positive

OTHER NAMES: Serum; hCG Quantitative,

Quantitative pregnancy test

METHODOLOGY: ECLIA

CLINICAL USE: Determine presence of HCG in patients with

gestational trophoblastic disease; and follow-up on molar pregnancies

CPT: 84702

[HCO3U] Urine Bicarbonate

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 4.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

METHODOLOGY: Enzymatic Assay (EZA)

CPT: 82374

[HCT] Hematocrit

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Age specific

METHODOLOGY: Automated cell counter

CLINICAL USE: Evaluate anemia, blood loss, hemolytic anemia,

polycythemia, and state of hydration

CPT: 85014

[HCTFL] Body Fluid Hematocrit

SPECIMEN REQUIRED: Body fluid at room temperature (state

source of fluid)

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Not established

CPT: 85013

[HCVAB] Hepatitis C Antibody

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Lavender (EDTA), Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative

METHODOLOGY: Electrochemiluminescence (ECLIA) CLINICAL USE: Assess exposure to hepatitis C infection; test

blood units for transfusion safety

CPT: 86803

[HDAB] Hepatitis Delta Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Aid in the diagnosis of delta hepatitis virus

infections (hepatitis D)

CPT: 86692

[HDABM] Hepatitis D IgM Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in the diagnosis of delta hepatitis virus

infections (hepatitis D)

CPT: 86692

[HDAC8] CORNELIA de LANGE 5 VIA HDAC8

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Cornelia de Lange syndrome (CdLS) type 5 via HDAC8

gene

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[HDAG] Hepatitis D Antigen

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 87380

[HDL] HDL Cholesterol

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Stable 72 hours at 15-25 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 37 - 54 mg/dL

METHODOLOGY: Homogenous enzymatic colorimetric

CLINICAL USE: Evaluate risk of developing coronary artery

disease CPT: 83718

[HE4] HE4 Ovarian Cancer Marker

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

OTHER NAMES: Ovarian Cancer Monitor

METHODOLOGY: Enzyme-linked ummunosorbent assay (ELISA)

CLINICAL USE: Tumor marker test

CPT: 86305

[HEAVY] HEAVY METALS SCREEN BLOOD

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) or Lavender (EDTA)

Lavender (EDTA) will be temporarily accepted

due to nationwide Royal Blue shortage

SPECIAL HANDLING: Please contact laboratory for correct tube;

Submit original unopened tube.

Patient should avoid seafood and red wine 72

hours prior to collection

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 1.1 mL

TEST INCLUDES: Arsenic, Lead and Mercury

TURNAROUND TIME: 4 days

REFERENCE RANGE: See individual tests

METHODOLOGY: Atomic absorption spectrometry (AAS); inductively

coupled plasma-mass spectrometry (ICP-MS)

CLINICAL USE: Monitor exposure to arsenic, lead, and mercury

CPT: 82175, 83655, 83825

[HELICSTL] Stool Helicobacter pylori Antigen

SPECIMEN REQUIRED: Frozen stool

TUBE OR CONTAINER: Screw-cap container

SPECIMEN VOLUME: 2 grams solid

2 mL liquid stool

MINIMUM VOLUME: 1 gram solid

1 mL liquid stool

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days METHODOLOGY: Immunoassay

CLINICAL USE: Establish the presence and possible etiologic

role of Helicobacter pylori in cases of chronic

gastric ulcer, gastritis, duodenal ulcer,

dyspepsia, etc

CPT: 87338

[HEMASS] HEMOLYTIC ASSAY

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 month REFERENCE RANGE: Negative

CPT: 86161

[HEMAV] HEMAVISION-LEUKEMIA-SPEC CHROM

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD) SPECIAL HANDLING: Must be received in the lab within 72 hours

of collection

Please include WBC results for performing lab

SPECIMEN VOLUME: 3-5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5-7 days

METHODOLOGY: Reverse transcriptase-Polymerase Chain Reaction

(RT-PCR) CPT: 81401

[HEMGAB] Haemophilus influenzae B IgG Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Detection of specific IgG antibodies against H.

influenzae which can cause conditions including

meningitis, septicemia, cellulitis, epiglottis

pneumonia, and septic arthritis

CPT: 86684

[HEMOCHROM] HEREDITARY HEMOCHROMATOSIS

SPECIMEN REQUIRED: Refrigerated or room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days OTHER NAMES: C282Y Mutation; Iron Overload or Iron Storage

disease

METHODOLOGY: Polymerase Chain Reaction (PCR) and Restriction

enzyme digestion CPT: 81256

[HEMOS] Urine Hemosiderin

SPECIMEN REQUIRED: Random urine TUBE OR CONTAINER: Plastic urine cup

SPECIMEN VOLUME: 30 mL MINIMUM VOLUME: 10 mL

TEST AVAILABILITY: Monday-Friday

REFERENCE RANGE: Negative METHODOLOGY: Microscopy

CPT: 88312

[HEMOSFL] Body Fluid Hemosiderin Pigment

SPECIMEN REQUIRED: Body fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 30 mL MINIMUM VOLUME: 10 mL

TEST AVAILABILITY: Monday-Friday

REFERENCE RANGE: Negative METHODOLOGY: Microscopy

CPT: 88312

[HEMP] HEREDITARY ERYTHRYOCYTOSIS MUT

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR) Amplification/

Sanger Sequence Analysis

CLINICAL USE: The definitive evaluation of an individual with

JAK2-negative erythrocytosis associated with lifelong sustained increased RBC mass, elevated

RBC count, hemoglobin, or hematocrit

CPT: 81479

[HEPARIN] Heparin Anti-Xa Act, Unfractionated

SPECIMEN REQUIRED: Citrate plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA

TEST AVAILABILITY: Daily

TURNAROUND TIME: 1 - 4 HOURS

REFERENCE RANGE: Therapeutic- UF Heparin = 0.3 - 0.7 IU/mL

Therapeutic- LMW Heparin = 0.5 - 1.0 IU/mLProphylaxis UF Heparin = 0.1 - 0.4 IU/mL Prophylaxis LMW Heparin = 0.2 - 0.4 IU/mL OTHER NAMES: Heparin assay; Heparin Xa CLINICAL USE: Monitor heparin therapy

CPT: 85520

[HEPARINP] Heparin Anti-Xa Activity

SPECIMEN REQUIRED: Citrate plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA

TEST AVAILABILITY: Daily

TURNAROUND TIME: 1-4 HOURS

REFERENCE RANGE: Therapeutic- UF Heparin = 0.3 - 0.7 IU/mL

Therapeutic- LMW Heparin = 0.5 - 1.0 IU/mLProphylaxis- UF Heparin = 0.1 - 0.4 IU/mL Prophylaxis- LMW Heparin = 0.2 - 0.4 IU/mL CLINICAL USE: Monitor heparin therapy

CPT: 85520

[HEPARINT] Heparin Anti-Xa Activity

SPECIMEN REQUIRED: Citrate plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA

TEST AVAILABILITY: Daily

TURNAROUND TIME: 1-4 HOURS

REFERENCE RANGE: Therapeutic- UF Heparin = 0.3 - 0.7 IU/mL

Therapeutic- LMW Heparin = 0.5 - 1.0 IU/mL Prophylaxis- UF Heparin = 0.1 - 0.4 IU/mL Prophylaxis- LMW Heparin = 0.2 - 0.4 IU/mL CLINICAL USE: Monitor heparin therapy

CPT: 85520

[HEPCO] Heparin Cofactor II

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days REFERENCE RANGE: 65-165 % METHODOLOGY: Chromagenic

CLINICAL USE: Assessment of thrombotic risk associated with

heparin cofactor II levels

CPT: 85130

[HEPEAB] Hepatitis E IgM Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days REFERENCE RANGE: Not Detected

METHODOLOGY: Enzyme Linked Immunosorbent Assay (ELISA)

CPT: 86790

[HEPEG] Hepatitis E IgG Antibody

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Dark Green (heparin)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme Linked Immunosorbent Assay (ELISA)

CPT: 86790

[HEPFONDA] Fondaparinux Anti-Xa Activity

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: None established

OTHER NAMES: Arixtra

METHODOLOGY: Chromogenic CLINICAL USE: Monitor heparin

CPT: 85520

[HEPNEUT] Heparin Neutralization

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Blue

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 days

CPT: 85525

[HEPQNT] Heparin Level

SPECIMEN REQUIRED: Heparin solution TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

CPT: 85520

[HEVPCR] Hepatitis E RNA Quant (PCR)

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Centrifuge and freeze plasma in less than 6

hours of collection

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: Negative

METHODOLOGY: Real-Time reverse transcription Polymerase Chain

Reaction (RT-PCR)

CPT: 87798

[HEX4U] Urine Tetrasaccharide

SPECIMEN REQUIRED: Frozen urine (random)

TUBE OR CONTAINER: Urine cup

SPECIAL HANDLING: For diagnostic use, must be done in

conjunction with GAA enzyme assay (Pompe

enzyme) in blood

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.25 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 7-10 days

REFERENCE RANGE: < 20.0 mmol/mol creatinine

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

REFLEX TEST INFORMATION:

CPT: 83789

[HGBF] Hemoglobin F (Fetal)

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 1-4 days

REFERENCE RANGE: 1 day: 69.7% to 84.3%

5 days: 71.0% to 82.6%
3 weeks: 62.7% to 77.3%
6-9 weeks: 41.9% to 63.9%
3-4 months: 7.2% to 39.2%
6 months: 2.5% to 6.9%
8-12 months: 0.6% to 2.6%
>1 year: 0.0% to 2.0%

OTHER NAMES: Fetal Hemoglobin

METHODOLOGY: High-pressure liquid chromatography (HPLC) CLINICAL USE: Evaluate hemoglobinopathies, hemolytic anemia:

diagnose hereditary persistence of fetal hemoglobin; diagnose thalassemia; evaluate

sickling hemoglobin

CPT: 83030

[HGBFU] Urine Free Hemoglobin

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (6 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Negative METHODOLOGY: Reagent Strip

CLINICAL USE: Determine the presence of hemoglobinuria

CPT: 81003

[HH] HEMOGLOBIN & HEMATOCRIT

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Invert specimen gently to avoid platelet

clumping; Refrigerate if specimen is held

longer than 24 hours

Specimen must not be hemolyzed, clotted, or

diluted with IV fluid

Clotted specimens WILL be rejected

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL

EDTA MICROTAINER Minimum: 250uL TEST INCLUDES: Hematocrit and hemoglobin

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 hours

METHODOLOGY: Automated cell counter

CLINICAL USE: Evaluate anemia, blood loss, hemolytic anemia,

polycythemia, and state of hydration

CPT: 85018; 85014

[HHT] HERED HEMORRHAGIC TELANGIECT

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Sequencing of ACVRL1 (HHT2) and ENG (HHT1) genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 weeks REFERENCE RANGE: Negative

METHODOLOGY: Polymerase Chain Reaction (PCR)/Sequencing

CPT: 81406; 81479

[HHV6G] Herpesvirus 6 IgG Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE: Negative: Equivocal: 1:20-1:80

Positive: >=1:160

METHODOLOGY: Indirect fluorescent antibody (IFA)

CLINICAL USE: Aid in the diagnosis of past infection/exposure

to roseola infantum; may be useful in diagnosis

of chronic fatigue syndrome

CPT: 86790

[HHV6M] Herpesvirus 6 IgM Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Immunofluorescence

CPT: 86790

[HHV6PCRQNT] Herpesvirus 6 DNA (Quant PCR)

SPECIMEN REQUIRED: Plasma, bronchial lavage/wash, bone marrow,

tracheal aspirate/wash at room temperature or

frozen

Frozen tissue, CSF or Fecal material

Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container, screw top tube or swab

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of

collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL plasma, CSF, bone marrow, liquid stool,

or respiratory specimens

5 mg tissue

Pea sized formed stool

MINIMUM VOLUME: 2 mL (whole blood)

0.5 mL plasma, CSF, bone marrow, liquid stool

or respiratory specimens

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87533

[HHV7G] Herpesvirus 7 IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-14 days

REFERENCE RANGE: Negative: < 1:160

METHODOLOGY: Indirect fluorescent antibody (IFA)

CLINICAL USE: Aid in diagnosis of past infection/exposure to

roseola infantum CPT: 86790

[HHV7M] Herpesvirus 7 IgM Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-14 days REFERENCE RANGE: Negative: < 1:20

METHODOLOGY: Indirect fluorescent antibody (IFA) CLINICAL USE: Aid in diagnosis of acute infection

CPT: 86790

[HHV7PCRQNT] Herpesvirus 7 DNA (Quant PCR)

SPECIMEN REQUIRED: Plasma, bronchial lavage/wash, tracheal

aspirate/wash at room temperature or frozen;

Frozen tissue, CSF or Fecal material

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container or screw top tube

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be received at performing lab within 4 days of collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 2 mL plasma, CSF, liquid stool or respiratory

specimens 5 mg tissue

Pea sized formed stool

MINIMUM VOLUME: 0.5 mL plasma, CSF, liquid stool or respiratory

specimens

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[HHV8PCRQNT] Herpesvirus 8 DNA (PCR)

SPECIMEN REQUIRED: Bronchial lavage/wash, tracheal aspirate/wash

at room temperature or frozen;

Frozen tissue, CSF or Fecal material

Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container or screw top tube

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be received at performing lab within 4 days of collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 2 mL CSF, liquid stool or respiratory

specimens 5 mg tissue

Pea sized formed stool 5 mL (whole blood)

MINIMUM VOLUME: 0.5 mL CSF, liquid stool or respiratory

specimens

2 mL (whole blood)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[HIDS] HYPER-IGD SYNDROME (HIDS)

SPECIMEN REQUIRED: Whole blood at room temperature or buccal

swabs

TUBE OR CONTAINER: Lavender (EDTA) or Buccal swabs

SPECIMEN VOLUME: 5 mL or 2 swabs

MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 weeks

OTHER NAMES: MVK gene sequencing

METHODOLOGY: Bi-directional sequence analysis

CPT: 81479

[HINFANT] H.influenzae b Direct Antigen

SPECIMEN REQUIRED: Refrigerated CSF, serum or urine (random) TUBE OR CONTAINER: Sterile plastic (CSF) tube or plastic urine

container; Red or Gold

ORDERING MODULE: MIC

SPECIMEN VOLUME: 0.5 mL CSF

1 mL serum

5 mL urine (random)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Negative

METHODOLOGY: Latex agglutination (LA)

CLINICAL USE: Aid in documentation of active infection with

Haemophilus influenzae

CPT: 87899

[HIST] Histamine Level

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA) SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Measure histamine that was released in vivo prior

to collection of the specimen; evaluate possible

systemic mastocytosis

CPT: 83088

[HISTAB] Histone Antibodies

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Semiquantitative result of IgG antibody

TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: 0-99 U/mL

Equivocal: 100-120 U/mL Positive: >120 U/mL

OTHER NAMES: Drug-Induced Lupus Antibodies; H2a/H2b and H3 and

H4 Antibodies

METHODOLOGY: Multiplex bead flow cytometry

CPT: 86235

[HISTOABS] Histoplasma Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

Testing Referred to AURP Laboratories #0050174

TURNAROUND TIME: 4-8 days

REFERENCE RANGE: None Detected

METHODOLOGY: Qualitative Immunodiffusion CLINICAL USE: Aid in the diagnosis and prognosis of

histoplasmosis CPT: 86698

[HISTOPCR] Histoplasmosis Interpretation

SPECIMEN REQUIRED: Whole blood at room temperature; Frozen

bronchoalveolar lavage (BAL), CSF or urine;

Frozen tissue

TUBE OR CONTAINER: Lavender (EDTA) or sterile container

SPECIMEN VOLUME: 5 mL (blood)

1 mL CSF, BAL or Urinre

>3 mm tissue

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Not Detected METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Detects the presence of Histoplasma capsulatum.

DNA in clinical specimens

CPT: 87798

[HIT] Heparin-Induced Platelet Antibody

SPECIMEN REQUIRED: Frozen plasma(preferred)/serum (2 aliquots)

Lt Blue (citrate) preferred

TUBE OR CONTAINER: Lt Blue, Gold, or Red

SPECIAL HANDLING: Allow blood to clot for 30 minutes then

centrifuge 10 minutes at 3000 rpm Include heparin type and concentration

SPECIMEN VOLUME: 2 mL or full Lt Blue & 1 mL aliquots

MINIMUM VOLUME: 2.7 mL & 0.5 mL aliquots

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days REFERENCE RANGE: Negative RLU

OTHER NAMES: HAT; Heparin-Associated Thrombocytopenia Ab;

Heparin-Induced Thrombocytopenia Ab; HITA

METHODOLOGY: Chemiluminescent immunoassay (EIA)

REFLEX TEST INFORMATION: Confirmatory testing is recommended

by Serotonin Release Assay (SRA), with a freshly drawn serum sample sent to a

reference lab for SRA evaluation.

CLINICAL USE: Assist in the diagnosis of heparin-induced

thrombocytopenia CPT: 86022

[HIV12AB] HIV (1&2) Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red or Lavender (EDTA)

UNACCEPTABLE SPECIMEN TYPE: Cord blood, cadaver specimens,

and any body fluid other than

EDTA plasma.

SPECIAL HANDLING: Submit in the original tube, labeled with the

patient's name or confidential ID number

NOTE: Confidential numbers may be used in

place of the patient's name; however, the

confidential number must be written on the

tube as well as in the patient name field on

the laboratory requisition SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Nonreactive

METHODOLOGY: Electrochemiluminescence (ECLIA)

REFLEX TEST INFORMATION: Repeat-reactive samples are referred to

an approved testing lab for

confirmatory HIV-1 and HIV-2 antibody

differentiation assay testing at an

additional charge

CLINICAL USE: Detect antigen/antibodies to HIV 1/O/2

CPT: 87389

[HIV1DNARNA] HIV-1 DNA/RNA Qualitative (PCR)

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must not share tube with any other testing

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Tue-Sat TURNAROUND TIME: 2-5 days REFERENCE RANGE: Undetected

METHODOLOGY: Real-Time Polymerase Chain Reaction (PCR)

REFLEX TEST INFORMATION:

CLINICAL USE: Detects human immunodeficiency virus type 1

(HIV-1) DNA and RNA. The assay methodology is polymerase chain reaction (PCR) using the COBAS AmpliPrep/COBAS TaqMan HIV-1 Qual test. This

test is optimized to yield equivalent

amplification of Group M subtypes of HIV-1.

CPT: 87535

[HIV2PCRQL] HIV RNA (PCR) Interpretation

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcriptase Polymerase chain reaction

(PCR)

CLINICAL USE: Detect HIV-2 RNA

CPT: 87538

[HIVGEN] HIV-1 GENOTYPIC DRUG RESIST

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must be received at performing lab

within 96 hours of collection SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: HIV-1 Genotypic Drug Resistance Sequencing

including mutations in the protease inhibitor, reverse-transcriptase and integrase genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Resistant/None detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87901

[HIVINTEG] HIV Integrase Inhibitor Mutations

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or PPT (white)

SPECIAL HANDLING: Specimen must be frozen in a screw top tube

or a PPT tube

Place in -20 C freezer

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily

CLINICAL USE: Provides phenotypic resistance analysis

CPT: 87903

[HIVNAT] HIV (NAT)

SPECIMEN REQUIRED: Refrigerated plasma or whole blood

TUBE OR CONTAINER: Lavender (EDTA) SPECIMEN VOLUME: 5 mL (whole blood) or

2 mL (plasma)

MINIMUM VOLUME: 3 mL (whole blood) or

1 mL (plasma)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE:

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Donor screening for detection of HIV-1 and HCV

RNA from human donors

CPT: 87535

[HIVPHENTRY] HIV-1 PHENOSENSE ENTRY

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or PPT (white)

SPECIAL HANDLING: Specimen must be frozen in a screw top tube

or a PPT tube

Place in -20 C freezer

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

METHODOLOGY: ID of HIV-1 drug resistance mutations by

sequencing

CLINICAL USE: Direct measurement of the drug susceptibility of

a patient's HIV-1 virus to entry inhibitors

CPT: 87903

[HMGCRAB] HMGCR Antibodies

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-10 days

OTHER NAMES: Autoantibody against 3-Hydroxy-3-Methylglutaryl-

Coenzyme A reductse (HMGCR)

METHODOLOGY: EIA

CLINICAL USE: Associated with necrotizing myopathy that is

commonly related to statin exposure

CPT: 83520

[HMWK] HMW Kininogen

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily METHODOLOGY: Clot-based

CPT: 85293

[HNPCCMLH1] HNPCC2 (MLH1 GENE)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81292

[HNPCC-MSH2] HNPCC1 (MSH2 GENE)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81295

[HNPCC-MSH6] HNPCC5 (MSH6 GENE)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81298

[HNPCC-PMS2DD] HNPCC/LYNCH-PMS2 DEL/DUP

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Store specimen refrigerated, but ship at room

temperature

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 14-35 days

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81319

[HOLOP] HOLOPROSENCEPHALY PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Gene sequencing of DISP1, FGF8, FOXH1, NODAL,

PTCH1, SHH, SIX3, TDGF1, TGIF and ZIC2 genes

TEST AVAILABILITY: Daily

TURNAROUND TIME: 10-12 weeks

METHODOLOGY: Massive Parallel sequencing

CPT: 81479

[HOMOCYCSF] Homocysteine

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: CSF tube

SPECIAL HANDLING: Must be in Lab Monday-Wednesday by 2:00 pm

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.25 mL

TEST AVAILABILITY: Monday-Wednedsay only

TURNAROUND TIME: 2 weeks METHODOLOGY: LC-MS/MS

CPT: 83090

[HOMOCYS] Homocysteine

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green(heparin) or Gold/Red SPECIAL HANDLING: Stable 4 days at room temperature

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: < 15.0 umol/L METHODOLOGY: Enzymatic

CLINICAL USE: Screen for patients who may be at risk for heart

disease and stroke CPT: 83090

[HOXD13] HOXD13-ASSOC LIMB ABNORMALITY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: HOXD13 gene analysis Associated with Limb

Abnormalities

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[HPFH8] HEREDITARY PERSISTENCE OF HbF

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Mutations for HPFH-1 (g.5174452 5259368del84917),

HPFH-2 (g.5180404_5263982del83579), HPFH-3 (g.5215683_5265453del49771),

HPFH-4 (g.5217940 5260078del42139),

HPFH-5 (g.5246023 5258951del12929),

HPFH-6 (g.5193975 5273259del79278),

HPFH-7 (g.5247860_5270651del22792), and SEA-HPFH

(g.5222878_5250288del27411) TEST AVAILABILITY: Daily TURNAROUND TIME: 8-12 days

METHODOLOGY: Multiplex PCR and gel electrophoresis

CLINICAL USE: Aids in determining the cause of elevated HbF.

Test confirms suspected deletional hereditary

persistence of fetal hemoglobin (HPFH

CPT: 81479

[HPRTRBC] HYPOXANTHINE PHOSPHORIB TRANS

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: ACD (Yellow)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks

REFERENCE RANGE: 400-2200 nmoles/min/gm Hgb

CLINICAL USE: Aid in diagnosis of Lesch-Nyhan syndrome

CPT: 82658

[HPV] HPV DETECTION AND TYPE

SPECIMEN REQUIRED: Conventional or liquid Pap smear, Cyto

brush/cervical swab M4)

TUBE OR CONTAINER: Liquid pap container

SPECIAL HANDLING: Samples in cytology preservative should be

collected using a cervical broom and placed in liquid-based cytology fixative (eg, vial

with PreservCyt solution, ThinPrep, SurePath,

or vial with CytoRich fixative)

Cervical specimens in PreservCyt, ThinPrep,

SurePath, or vial with CytoRich fixative may

be stored as long as 30 days (refrigerated or

at room temperature) before testing for HPV

DNA sequences. Specimens must be processed

for testing within 30 days of collection

SPECIMEN VOLUME: 8 mL (cytology preservative) MINIMUM VOLUME: 4 mL (cytology preservative)

TEST INCLUDES: Detection of HPV in tissue specimen; HPV typing

for (6, 11), (16), (18, 45), and (31, 33, 35, 39)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-10 days

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Confirm HPV infection; determine HPV type;

resolution of cases with equivocal histo-

pathology or cytopathology

CPT: 87624

[HPVISH] HPV PROBE IN SITU HYBRIDIZ

SPECIMEN REQUIRED: Formalin-fixed, paraffin-embedded (FFPE)

tissue block at room temperature or

Unstained slides

TUBE OR CONTAINER: Paraffin block or slides

SPECIMEN VOLUME: 7 slides MINIMUM VOLUME: 6 slides TEST AVAILABILITY: Daily

REFERENCE RANGE: Not detected METHODOLOGY: In situ hybridization

CLINICAL USE: Determine HPV type; confirm HPV infection;

resolve cases with equivocal histopathology

CPT: 88365

[HPVRECT] HPV HIGH RISK-RECTAL

SPECIMEN REQUIRED: Specimen in ThinPrep vial

TUBE OR CONTAINER: ThinPrep vial

SPECIMEN VOLUME: 8 mL (cytology preservative) MINIMUM VOLUME: 4 mL (cytology preservative)

TEST AVAILABILITY: Daily

REFERENCE RANGE: Not detected

METHODOLOGY: Nucelic acid amplification (NAA)

CLINICAL USE: Determine HPV type; confirm HPV infection;

resolve cases with equivocal histopathology

CPT: 87621 x 2

[HSV12AB] AB HERPES SIMPLEX 1 & 2

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Determine exposure to HSV and aid in diagnosis of

primary infection with HSV CPT: 86694; 86695; 86696

[HSV12PCRQNT] Herpes Simplex I&II DNA (PCR)

SPECIMEN REQUIRED: Plasma at room temperature or frozen;

Frozen bronchial wash/lavage, tracheal aspirate/wash, tissue, CSF, Aqueous or

vitreous fluid

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container, screw top tube or swab

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be received at performing lab within 4 days of collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 2 mL plasma, CSF or respiratory specimens

5 mg tissue

1 mL aqueous or vitreous fluid

MINIMUM VOLUME: 0.5 mL plasma, CSF or respiratory specimens

0.1 mL aqueous or vitreous fluid TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87530 x 2

[HSV1G] Herpes Simplex Virus I IgG Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Freeze specimen if testing will not be

performed within 5 days of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days

REFERENCE RANGE: Negative: METHODOLOGY: Enzyme-linked immunoassay

(ELISA)

CLINICAL USE: Detect IgG antibodies to HSV-1

CPT: 86695

[HSV2G] Herpes Simplex Virus II IgG Ab

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Spin down for serum, separate and refigerate.

Freeze specimen if testing will not be performed within 5 days of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days

REFERENCE RANGE: Negative: METHODOLOGY: Chemiluminescent immunoassay

(CLIA).

REFLEX TEST INFORMATION: Reflex of specimens equivocal and low

positive for HSV-2 type specific IgG to a membrane based

immunoassay.

CLINICAL USE: Detect IgG antibodies to HSV-2

CPT: 86696

[HTLVCSF] CSF HTLV I/II Antibody

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme Immunoassay(EIA)/Western Blot

REFLEX TEST INFORMATION: If positive, results will be confirmed

by Western blot at an additional charge CPT: 86790 (86689-confirmation)

[HTLVI-II] HTLV-I/II Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1.5 mL TEST AVAILABILITY: Daily REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA) CLINICAL USE: Qualitative detection of antibodies

CPT: 86790

[HTX] HETEROTAXY PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Gene sequencing of ACVR2B, FOXH1, LEFTY2,

NKX2-5, NODAL, ZIC3, ANKS6, CCDC11, CCDC103,

CCDC114, CCDC39, CCDC40, DNAAF1, DNAAF2, DNAAF3,

DNAI1, DNAI2, DNAH5, DNAH11, DNAL1, HEATR2, INVS, LRRC6, TXNDC3, CRELD1, GDF1 and GJA1

TEST AVAILABILITY: Daily TURNAROUND TIME: 8-9 weeks

OTHER NAMES: Heterotaxy/situs Inversus and Kartagener's

Syndrome NextGen sequencing (NGS) panel

METHODOLOGY: Next Generation sequencing (NGS)

CPT: 81479 x 25

[HUNTER] HUNTER SYNDROME/MPS II (IDS)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Mucopolysaccharidosis Type II via IDS gene; Hunter

Syndrome

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81405

[HYA] Hyaluronic Acid

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, Green (heparin) or Lavender (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days REFERENCE RANGE: 0-54 ng/mL

METHODOLOGY: Quantitative Enzyme-linked Immunosorbent Assay

(ELISA) CPT: 80299

[HYDROXYZ] Hydroxyzine Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days REFERENCE RANGE: 10 - 100 ng/mL

OTHER NAMES: Atarax; Vistaril

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[HYPPO] HYPOPHOSPHATASIA (ALPL GENE)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[IA2AB] Insulin Autoantibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

REFERENCE RANGE:

OTHER NAMES: ICA512 Autoantibodies; Tyrosine Phosphatase

Autoantibodies

METHODOLOGY: Immunoprecipitation assay

CPT: 86341

[IBCTRANS] Transferrin

[IBU] Ibuprofen Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red or Dark Green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 10.0 - 50.0 ug/ml

OTHER NAMES: Advil, Midol IB, Motrin, Nuprin

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection; (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[IDH1-2] ISOCITRATE DEHYDROGENASE 1/2

SPECIMEN REQUIRED: Whole blood, bone marrow Paraffin-embedded

or formalin-fixed tissue block at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or Paraffin block

SPECIAL HANDLING: When submitting block or unstained sections,

also submit an H&E-stained slide or photocopy

of slide marking location of most abundant

tumor and approximate % of tumor cells in

that area

SPECIMEN VOLUME: 5 mL (blood)

3 mL (bone marrow)

MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 10-14 days

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81403 x 2

[IDIHIVGENPR] HIV-1 GENOSURE PRIme

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or PPT (white)

SPECIAL HANDLING: Specimen must be frozen in a screw top tube

or a PPT tube

Place in -20 C freezer

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

CLINICAL USE: Detects antiretroviral drug resistance mutations

in patients with HIV-1 infection CPT: 87900, 87901; 87906

[IDORG] IDENTIFICATION OF ORGANISM X1

[IDORGOBI] Identification of OBI culture

[IDURSULF] Iduronate-2-Sulfatase (Hunter)

SPECIMEN REQUIRED: Frozen plasma or whole blood or fibroblasts

at room temperature

TUBE OR CONTAINER: Dark green (heparin) or T-25 flasks SPECIAL HANDLING: Whole blood must be shipped same day as

collected; otherwise separate and freeze

plasma

SPECIMEN VOLUME: 2 mL (plasma)

5 mL (whole blood)

2 flasks

MINIMUM VOLUME: 1 mL (plasma)

3 mL (whole blood)

TEST AVAILABILITY: Daily

OTHER NAMES: Hunter Syndrome-Enzyme Analysis,

Mucopolysacchardosis Type 2 enzyme

CPT: 82657

[IEPS] IMMUNOELECTROPHORESIS SERUM

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 3 ml MINIMUM VOLUME: 2 mL

TEST INCLUDES: Quantitative IgG, IgA, and IgM; Protein electro-

phoresis; typing of monoclonal or polyclonal proteins for light and heavy chain specificity; Immunofixation electrophoresis if needed for clarification of equivocal IEP patterns

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days

REFERENCE RANGE: Normal pattern

METHODOLOGY: Electrophoresis followed by immunodiffusion against

monospecific antisera to immunoglobin and individual heavy and light chains (IEP); protein electrophoresis on agarose media; turbidimetric

quantitation of IgG, IgA, and IgM

CLINICAL USE: Detect and identify monoclonal immunoglobulin

gammopathies

CPT: 82784 x 3, 86320

[IFU] Urine Immunofixation

SPECIMEN REQUIRED: Refrigerated aliquot of random urine

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: No preservative; Collect first morning urine

SPECIMEN VOLUME: 30 mL MINIMUM VOLUME: 10 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days REFERENCE RANGE: Normal pattern

METHODOLOGY: Agarose gel immunofixation electrophoresis (IFE) CLINICAL USE: Useful in characterizing the proteins in cases of

proteinuria CPT: 86335

[IGA] Immunoglobulin A

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Light Green (heparin), Gold or Red

SPECIAL HANDLING: Draw from a fasting patient; test cannot be

performed on a lipemic sample Stable 8 months at room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age specific METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Aid in the diagnosis and treatment of immune

deficiency states, protein-losing conditions, chronic infections, myeloma, cirrhosis and liver

disease

CPT: 82784

[IGACSF] CSF Immunoglobulin A

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.25 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 0.00 - 0.64 METHODOLOGY: Immunologic

CLINICAL USE: Quantitation of polyclonal or monoclonal response

CPT: 82784

[IGASEC] Saliva Secretory IgA

SPECIMEN REQUIRED: Refrigerated saliva TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Sputum is not acceptable; Centrifuge and

separate to remove cellular material SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Male: 4.0-24.0 mg/dL

Female: 5.0-28.0 mg/dL

METHODOLOGY: Nephelometry

CLINICAL USE: Useful in investigating recurrent upper

respiratory infections in children

CPT: 82784

[IGD] Immunoglobulin D

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Draw from a fasting patient; test cannot be

performed on a lipemic sample SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: 0.13-15.27 mg/dL

METHODOLOGY: Immunologic

CLINICAL USE: Study patients for IgD myeloma

CPT: 82784

[IGE] Immunoglobulin E

SPECIMEN REQUIRED: Serum or Plasma

TUBE OR CONTAINER: Lt Green, Red or Gold SPECIAL HANDLING: Stable 7 days at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age specific

METHODOLOGY: Electrochemiluminescence Immunoassay (ECLIA)

CLINICAL USE: Evaluate immunoglobin status in possible

atopic disease

CPT: 82785

[IGFBP-3] Insulin-like GF Binding Protein-3

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDIGFBP3 for pediatric testing to

be performed by Esoterix TEST AVAILABILITY: Daily

REFERENCE RANGE: Age & gender specific

OTHER NAMES: Insulin-like Growth Factor Binding Protein-3 METHODOLOGY: Immunochemiluminometric Assay (ICMA) CLINICAL USE: Aids in evaluation of growth hormone secretion

CPT: 83520

[IGF-II] Insulin-like Growth Factor II

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 7 days REFERENCE RANGE: Age specific OTHER NAMES: Somatomedin A

METHODOLOGY: Radioimmunoassay (RIA) after acid: alcohol

extraction

CLINICAL USE: An adjunct to IGF-I in the clinical evaluation of

growth hormone-related disorders

CPT: 84305

[IGG] Immunoglobulin G

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Lt Green (heparin), Gold or Red

SPECIAL HANDLING: Draw from a fasting patient; test cannot be

performed on a lipemic sample Stable 4 months at room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age specific METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Aid in the diagnosis and treatment of immune

deficiency states, protein-losing conditions, chronic infections, liver disease, as well as multiple sclerosis, mumps, meningitis, and immunoglobulin G myeloma

CPT: 82784

[IGGCSF] CSF Immunoglobulin G

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Freeze specimen if testing will not occur

within 5 days

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.25 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days METHODOLOGY: Immunologic

CLINICAL USE: Evaluate central nervous system involvement by

infection, neoplasm, or primary neurologic disease (in particular, multiple sclerosis)

CPT: 82784

[IGGSUB] IMMUNOGLOBULIN G SUBCLASSES

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1.5 mL

TEST INCLUDES: Quantitation of IgG1,IgG2,IgG3,IgG4 & total IgG

TEST AVAILABILITY: Daily REFERENCE RANGE: Age specific METHODOLOGY: Immunologic

CLINICAL USE: Study patients with recurrent bacterial

infections or allergy CPT: 82784; 82787 x4

[IGM] Immunoglobulin M

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Draw from a fasting patient; test cannot be

performed on a lipemic sample Stable for 2 months at room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age specific METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Aid in the diagnosis and treatment of immune

deficiency states, protein-losing conditions,

chronic infections, liver disease and Waldenstrom's macroglobinemia

CPT: 82784

[IGMCSF] CSF Immunoglobulin M

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.25 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 0.00 - 0.26 METHODOLOGY: Immunologic

CLINICAL USE: In patients with bacterial meningitis, CSF IgM is

usually elevated along with C-reactive protein

CPT: 82784

[IMMUKNOW] IMMUKNOW CELL FUNCTION ASSAY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Must be collected and received in the lab by

12:00 pm Monday-Friday only

Collect specimen after 8:00 a.m. to preserve

specimen integrity

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 48 hours

REFERENCE RANGE: Low immune cell response: Moderate immune cell response:

226-524 ATP ng/mL

Strong immune cell response: >/= 525 ATP ng/mL

OTHER NAMES: Cylex

METHODOLOGY: Detects cell-mediated immunity by measuring

concentration of ATP from CD4 cells following

stimulation CPT: 86352

[INDIN] HIV Indinavir Resistance

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily OTHER NAMES: Crixivan

METHODOLOGY: High-pressure liquid chromatography (HPLC)

CLINICAL USE: Monitor indinavir therapy

CPT: 80299

[INFLA] Influenza Virus Type A Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily REFERENCE RANGE: Negative: < 1:8

METHODOLOGY: Complement fixation (CF) CLINICAL USE: Detect antibodies to Influenza A

CPT: 86710

[INFLB] Influenza Virus Type B Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: < 1:8 METHODOLOGY: Complement fixation (CF) CLINICAL USE: Detect antibodies to Influenza B

CPT: 86710

[INFLIXRX] Infliximab Antibody

SPECIMEN TYPE

Serum Red

SPECIMEN REQUIRED

Patient Preparation:

- 1. Draw blood immediately before next scheduled dose (trough specimen).
- 2. For 12 hours before specimen collection do not take multivitamins or dietary supplements containing biotin (vitamin B7), which is commonly found in hair, skin, and nail supplements and multivitamins.

Container/Tube: Red top (serum gel/SST are not acceptable)

Specimen Volume: 1 mL

Collection Instructions: Centrifuge within 2 hours of

collection.

[INHIB] Inhibin A

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Enzyme Immunoassay (EIA)

CLINICAL USE: Assess the function of the antral follicles the

dominant follicle/corpus luteum of the ovaries

in women CPT: 86336

[INHIBB] Inhibin B

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Chemiluminescence

CLINICAL USE: Serves as an endocrine marker for monitoring male

and female gonadal function

CPT: 214214

[INS] Insulin Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Gold or Light Green (heparin)

SPECIAL HANDLING: NO isotopes administered 24 hours prior to

venipuncture; Patient should be fasting for at least 7 hours prior to venipuncture

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday and Thursday

TURNAROUND TIME: 3-4 days

REFERENCE RANGE:

0-17 years: 2.0-20.0 Micro International Units/mL > 18 years: 6.0-30.0 Micro International Units/mL METHODOLOGY: Competitive Immunoassay

CLINICAL USE: Work up for fasting hypoglycemia, evaluate for

insulin producing neoplasm or pancreatic islet

cell hyperplasia CPT: 83525

[INSULAB] Insulin Autoantibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: REFERENCE RANGE:

OTHER NAMES: IAA; Insulin Antibodies

METHODOLOGY: Insulin-I125 binding capacity

CPT: 86337

[INT10] Interleukin 10 (IL-10)

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Gold, Red or Lavender (EDTA)

SPECIAL HANDLING: Separate serum or plasma from cells as soon

as possible

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[INT18] Interleukin 18 (IL-18)

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate within 2 hours of venipuncture

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[INT1b] Interleukin 1 Beta (IL-1b)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 days REFERENCE RANGE: < 3.0

METHODOLOGY: Multiplex Array

CPT: 83520

[INT2] Interleukin 2 (IL-2)

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Separate serum or plasma from cells as soon

as possible

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-30 days

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 83520

[INT2R] Interleukin-2-Receptor (IL-2R)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days

REFERENCE RANGE: 223-710 units/mL

OTHER NAMES: CD25; IL-2 sRa (IL-2 soluble receptor alpha) METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: The function of IL-2 sR is unclear, but increased

levels of IL-2 sR in biological fluids correlate

with increased T & B activation and immune system

activation CPT: 83520

[INT4] Interleukin 4 (IL-4)

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[INT6] Interleukin 6 (IL-6)

SPECIMEN REQUIRED: frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate serum from cells as soon

as possible

SPECIMEN VOLUME: 1.0 mL MINIMUM VOLUME: 1.0 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

OTHER NAMES: B-Cell Stimulation Factor 2; BSF-2; CDF; Cytolytic

Differentiation Factor; Hepatocyte Stimulatory Factor; HGF; HSF; Hybridoma Growth Factor; IL-6

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 83520

[INT6AMN] Interleukin 6 (IL-6)

SPECIMEN REQUIRED: Frozen amniotic fluid (not preferred

specimen; performing lab will report with

disclaimer)

TUBE OR CONTAINER: Sterile capped/conical tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days METHODOLOGY: Multiplex Array

CPT: 83520

[INT8] Interleukin 8 (IL-8)

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Separate serum or plasma from cells as soon

as possible

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[INTFA] Alpha Interferon Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-16 days REFERENCE RANGE: < 4 IU/mL

METHODOLOGY: Enzyme-immunoassay (EIA)

CPT: 83520

[INTFB] Interferon Beta Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: The specific drug (Betaseron, Rebif, Avonex)

being used to treat the patient, must be

provided

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: < 4.0 Units

METHODOLOGY: Multi-Analyte Immunodetection (MAID) CLINICAL USE: Antibodies are detectable in relapsing-remitting

multiple sclerosis patients after the third year of treatment with IFNB and are associated with

exacerbations of disease

CPT: 83520

[INTFG] Interferon Gamma Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days REFERENCE RANGE: < 0.3 pg/mL METHODOLOGY: Multiplex Array

CPT: 83520

[INTRAB] Intrinsic Factor Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 1.1 AU/mL METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Contributes to the diagnosis and differential

diagnosis of B12 deficiency

CPT: 86340

[IODI] Total Iodine Level

SPECIMEN REQUIRED: Plasma at room temperature in a certified

metal-free plastic transport tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will no longer be accepted

after 10/1/13

SPECIAL HANDLING: Please contact laboratory for correct tube

Separate plasma from cells within 45 minutes

of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 40.0 - 92.0 ug/L

METHODOLOGY: Inductively-coupled plasma/mass spectrometry

(ICP/MS)

CLINICAL USE: Monitor exposure to iodine; evaluate for iodine

deficiency disorders (IDDs), excessive iodine

intake or iodine in the workplace

CPT: 83789

[IPF] Immature Platelet Fraction

[IRF6] IRF6 GENE MUTATION

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: IRF 6 Gene analysis in Van der Woude and Popliteal

Pterygium Syndromes (PPS)

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[IRON] Iron Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Red

SPECIAL HANDLING: Stable 7 days at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 days: 104-260 ug/dL

1 Month-3 Years: 42-104 ug/dL

4-12 years: 52-125 ug/dL

13 Years +: (Female) 42-156 ug/dL

(Male) 52-167 ug/dL

METHODOLOGY: Colorimetric

CLINICAL USE: Aid in evaluation conditions involving red cell

reproduction and destruction, iron metabolism or

transplant CPT: 83540

[IRONU] Urine Random Iron

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Urine container

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days

METHODOLOGY: Inductively Coupled Plasma/Optical Emission

(ICP/OES)

CLINICAL USE: Monitor exposure

CPT: 83540

[ISLETAB] Anti-Pancreatic Islet Cell Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days REFERENCE RANGE: Negative < 1:1

OTHER NAMES: Islet cell Ab, antipancreatic islet cell antibody,

anti-islet cell Ab

METHODOLOGY: Indirect Fluorescent antibody (IFA) CLINICAL USE: Differential diagnosis of insulin-dependent

diabetes from noninsulin-dependent diabetes

CPT: 86341

[ITRA] ITRACONAZOLE/HYDROXYITRACON

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Lavender (EDTA) or Dark Green (heparin) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.6 mL

TEST INCLUDES: Itraconazole and Hydroxyitraconazole

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days OTHER NAMES: Sporanox

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS) CPT: 80299

[JAK2] JANUS KINASE 2 V617F MUTATION

SPECIMEN REQUIRED: Whole blood or bone marrow refrigerated or

at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Refrigerate

SPECIMEN VOLUME: 3-5 mL Blood or 3-5mL of Bone Marrow.

MINIMUM VOLUME: 3 mL (blood)

1 mL (bone marrow)

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 5-10 days OTHER NAMES: JAK2 Mutation

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Used in conjunction with bone marrow histology

and cytogenetic analysis to assist in the

diagnosis of myeloproliferative disorders (MPDs)

such as polycythemia vera, essential

thrombocythemia and idiopathic myelofibrosis

CPT: 81270

[JCVABIND] JC VIRUS AB W/INDEX

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Gold, Red or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-16 days REFERENCE RANGE: Negative METHODOLOGY: Immunoassay (IA)

CLINICAL USE: Determine the prevalence of Serum JC Antibody in

relapsing MS patients receiving Tysabri or being

considered for such treatment

CPT: 86711

[JCVPCRQL] JC Virus DNA Qualitative (PCR)

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily REFERENCE RANGE: Negative

METHODOLOGY: Real-time polymerase chain reaction (PCR) CLINICAL USE: Aid in the diagnosis of infections caused by JC

virus

CPT: 87798

[JO1AB] JO-1 Antibody

SPECIMEN REQUIRED: Room temperature serum or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 0.6 mL

MINIMUM VOLUME: 0.3 mL (This volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 0.9 METHODOLOGY: Flow Cytometry

CLINICAL USE: Evaluate patients suspected of having polymyositis

hermatomyositis, or polymyositis-scleroderma

overlap syndrome CPT: 86235

[K] Potassium Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Care should be taken to avoid hemolysis during

venipuncture. Specimen should be spun and

removed from cells within 2 hours. SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 days: 3.7-6.1 mmol/L

1 month-1 year: 4.1-5.5 mmol/L

1 year +: 3.5-5.2 mmol/L OTHER NAMES: K+

METHODOLOGY: Ion-Selective Electrode

CLINICAL USE: Aid in the diagnosis and treatment of hypokalemia,

hyperkalemia, renal failure, Addison's disease or other diseases involving electrolyte imbalance

CPT: 84132

[KB] Kleihauer-Betke Fetal Hemoglobin (L

SPECIMEN REQUIRED: Fresh whole blood (< 6 hours old)

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: This test is performed only on the day shift

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

CLINICAL USE: Determine possible fetal-maternal hemorrhage and

assess magnitude; aid in diagnosis of certain types of adult anemias. Calculate dosage of Rh

immune globulin CPT: 85460

[KBENTC] KIRBY BAUER ENTEROCOCCUS

[KBF] Body Fluid Potassium

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily **TURNAROUND TIME: 8 hours**

REFERENCE RANGE: None established METHODOLOGY: Ion-Selective Electrode

CPT: 84132

[KBGCREF] KB N. gonorrhoeae LabCorp

[KBGN] KIRBY BAUER, MISC GRAM NEG

[KBGNRU] KIRBY BAUER GNR: URINE

[KBPA] KIRBY BAUER PS.AERUG

[KBPAS] KIRBY BAUER PASTEURELLA

[KBSAL] KIRBY BAUER SALMONELLA

[KBSHI] KIRBY BAUER SHIGELLA

[KBSTA] KIRBY BAUER STAPH NOT URINE

[KBSTAUR] KIRBY BAUER STAPH URINE

[KBSTRB] KB BETA STREP

[KBSTRVIR] KB STREP VIRIDANS GROUP

[KELLK6-K7] Kell Antigen

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL

MINIMUM VOLUME: 5 mL (whole blood)

TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days

METHODOLOGY: Allele-specific PCR

CPT: 81479

[KEPPRA] Levetiracetam (Keppra) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in a gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 10.0 - 40.0 ug/mL

OTHER NAMES: Levetiracetam

METHODOLOGY: Liquid chromatography mass spectrometry (LC/MS)

CLINICAL USE: Monitor therapeutic level

CPT: 80177

[KETU] Urine Ketones

SPECIMEN REQUIRED: Random urine TUBE OR CONTAINER: Urine container

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 hours REFERENCE RANGE: Negative METHODOLOGY: Reagent strip

CPT: 81002

[KFMARUP] KNOWN FAMILIAL MUTATION-ARUP

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specify gene

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

METHODOLOGY: Polymerase chain reaction (PCR)/Sequencing

CPT: 81479

[KFMBCM] KNOWN MUTATION-BCM

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

METHODOLOGY: Bi-directional sequence analysis

CPT: 81479

[KFMCTGT] KNOWN FAMILIAL MUT-CTGT

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks METHODOLOGY: Sanger Sequencing

CPT: 81403

[KITF] KIT-F (D816V) MUTATION BY PCR

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

temperature

TUBE OR CONTAINER: Lavender (EDTA) or Pink (K2EDTA)

SPECIMEN VOLUME: 3-5 mL

MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days

OTHER NAMES: C-kit, D816V gene mutation

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404

[KLCHAIN] KAPPA/LAMBDA LIGHT CHAINS

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Stable at room temperature for 7 days or

longer if frozen at -20 C or lower Patient should fast for 8 hrs prior to

collection

SPECIMEN VOLUME: 0.5 ml MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Quantitative kappa chains, lambda chains and

kappa/lambda ratio

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days

REFERENCE RANGE: Free Kappa light chains: 3.3-19.4 mg/L

Free Lambda light chains: 5.71-26.30 mg/dl Kappa/Lambda free light chain ratio: 0.26-1.65

OTHER NAMES: Free Light Chains; Kappa Free Light Chains; Kappa/

Lambda Free Light Chains; Lambda Free Light

Chains; FLC; sFLC; Freelite METHODOLOGY: Immunologic

CPT: 83883 x 2

[KLCHAINU] KAPPA/LAMBDA LIGHT CHAINS UR

SPECIMEN REQUIRED: Urine at room temperature (random or 24 hr)

TUBE OR CONTAINER: Urine Red Clear tube or "P" container SPECIAL HANDLING: Stable at room temperature for 7 days or

longer if frozen at -20 C or lower

SPECIMEN VOLUME: 1 tube (1.5 ml) MINIMUM VOLUME: 1 tube (1 mL)

TEST INCLUDES: Quantitative kappa chains, lambda chains and

kappa/lambda ratio

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days METHODOLOGY: Nephelometry

CPT: 83883 x 2

[KLISH] KAPPA/LAMBDA IN SITU HYBRIDIZ

SPECIMEN REQUIRED: Formalin-fixed, paraffin-embedded (FFPE)

tissue biopsy at room temperature or

Unstained slides and H&E

TUBE OR CONTAINER: Paraffin block or fresh tissue in a sterile

container in 10% neutral-buffered formalin SPECIMEN VOLUME: 10 slides & 1 H&E

TEST INCLUDES: Kappa & Lambda by in situ hybridization,

Kappa/Lambda ratio

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days

OTHER NAMES: Kappa & Lambda mRNA probes

METHODOLOGY: In situ hybridization

CPT: 88365 x 2

[KMT2A] Cornelia de Lange Syndrome

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Cornelia de Lange syndrome (CdLS) via KMT2A gene

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[KOH] Fungal Prep (KOH)

SPECIMEN REQUIRED: Scrapings of skin, nail, or other vaginal

secretions

COLLECTION:

NAILS: Cleanse area with 70% alcohol; With a sterile blade,

take deep scrapings of the nail

SKIN: Cleanse area with 70% alcohol; With a sterile blade,

scrape the skin at the border of the active lesion and

normal tissue

VAGINAL SECRETIONS: Submit specimen in a tightly sealed

sterile container

SPECIAL HANDLING: Indicate specimen source

Submit specimen in sterile tightly capped container or between two microscope slides

(secure together with adhesive tape)

ORDERING MODULE: MIC
TEST AVAILABILITY: Daily
TURNAROUND TIME: 4 hours

REFERENCE RANGE: Negative for fungal elements METHODOLOGY: Smear with direct examination

CLINICAL USE: Determine presence of fungi in skin, nails, hair,

and other sources containing cellular material

CPT: 87220

[KRASSEQ] K-ras GENE (NOONAN/CFC/COSTELL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks OTHER NAMES: Noonan, CFC and Costello Syndromes via KRAS Gene

sequencing

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81405

[KRASTX] K-ras GENE MUTATION DETECTION

SPECIMEN REQUIRED: Unstained slides from paraffin block or

formalin-fixed paraffin embedded tissue block

at room temperature

TUBE OR CONTAINER: Slides or blocks

SPECIMEN VOLUME: 5 unstained slides and 1 H&E stained side at

10 uM or tissue block

TEST AVAILABILITY: Daily

METHODOLOGY: Amplification refractory mutation system (ARMS)

and real-time polymerase chain reaction using

Scorpions technology

CLINICAL USE: May indicate prognosis and drug response for many

new cancer therapies CPT: 81275; 81403

[KSTL] Stool Potassium

SPECIMEN REQUIRED: Liquid stool TUBE OR CONTAINER: Plastic container

SPECIAL HANDLING: Stool must be in liquid form for analysis

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: No established range METHODOLOGY: Ion-Selective Electrode

CPT: 84133

[KU] Urine Random Potassium

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (2 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Ion-Selective Electrode

CPT: 84133

[LACCSF] CSF Lactic Acid

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 1.0 - 3.1 mmol/L METHODOLOGY: Colorimetric endpoint

CPT: 83605

[LACD] Plasma D-Lactate

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Gray (Sodium fluoride)

SPECIAL HANDLING: Centrifuge and separate immediately

SPECIMEN VOLUME: 2.5 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: 0.0-0.25 mmol/L METHODOLOGY: Endpoint Enzyme Assay

CLINICAL USE: D-lactate is a product of bacterial overgrowth

in the gastrointestinal tract. It should not be confused with L-lactate, which accumulates in

some metabolic acidosis

CPT: 83605

[LACOS] Lacosamide Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Lavender(EDTA) or Dark Green (heparin)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 0.5 ml MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-12 days

OTHER NAMES: Vimpat

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Monitor therapeutic values

CPT: 83789

[LACT] Lactic Acid Level

SPECIMEN REQUIRED: Gray top on ice (venous). TUBE OR CONTAINER: Gray (sodium fluoride)

SPECIAL HANDLING: Do not use tourniquet when drawing due to

build-up of high potassium and lactic acid

from the arm muscle

Place specimen on ice; if testing not

performed immediately; Centrifuge, separate

and FREEZE plasma

Specimen WILL be rejected if not on ice

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0.5 - 1.9 mmol/L

OTHER NAMES: Lactate

METHODOLOGY: Colorimetric endpoint

CLINICAL USE: Evaluate metabolic acidosis, regional or diffuse

tissue hypoperfusion, hypoxia, shock, congestive

heart failure, dehydration, and operative

complications CPT: 83605

[LACTO] Human Placental Lactogen

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Collect specimen Monday-Thursday only

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Thursday

OTHER NAMES: HPL; Human chorionic somatomammotropin

CLINICAL USE: Monitoring placental function

CPT: 83632

[LACTWB] Lactate (Blood Gas)

[LAL] LYSOSOMAL ACID LIPASE (LAL-D)

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Filter paper card SPECIAL HANDLING: Must be received at performing lab within 72

hours of collection

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

REFERENCE RANGE: Unaffected: 0.027-0.152 nmol/punch/hr METHODOLOGY: Determination of enzyme activity against

4-methylumbelliferyl-palmitate

CLINICAL USE: Diagnose Wolman disease and cholesteryl ester

storage disease (CESD) caused by LAL deficiency.

CPT: 82657

[LAM] Lamotrigine (Lamictal) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark Green (heparin) or Lavender(EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: Therapeutic: trough: 2.0 - 20.0 ug/mL

OTHER NAMES: Lamotrigine

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Monitor therapeutic values

CPT: 80175

[LAP] Leukocyte Alkaline Phosphatase

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (Heparin)

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Friday (must arrive in laboratory

before 1:30 pm on Friday)

TURNAROUND TIME: 1-3 days REFERENCE RANGE: 25-130 OTHER NAMES: LAP score

METHODOLOGY: Enzyme reaction with leukocyte alkaline phosphatase

liberating naphthol or a substituted naphthol

compound which then couples with fast blue RR or other chromogen to form an insoluble precipitate

CLINICAL USE: Aids in the differential diagnosis of chronic

myelocytic leukemia (CML) vs. leukemoid reaction;

aids in the evaluation of polycythemia vera, myelofibrosis with myeloid metaplasia, and paroxysmal nocturnal hemoglobinuria

CPT: 85540

[LASA] Lipid Associated Sialic Acid

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 0-20 mg/dL

OTHER NAMES: LASA; Lipid-Bound Sialic Acid

METHODOLOGY: Spectrophotometry

CLINICAL USE: Management of a variety of malignancies; generally

used in conjunction with other tumor markers

CPT: 84275

[LC1] Liver Cytosol Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: < 15

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of autoimmune hepatitis, type

2 (AIH-2) CPT: 86376

[LCHAD] LONG CHAIN 3-OH ACYL-CoA DEHYD

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 4 weeks (full gene sequencing)

2-4 days (commom mutation)

OTHER NAMES: Long-Chain 3-Hydroxyacyl-CoA Dehydrogenase (LCHAD)

Deficiency via HADHA gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81403 (Common mutation); 81406 (full gene sequencing)

[LCORGDIS] Urine Organic Acids Disclaimer

[LDH] Lactate Dehydrogenase

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Red

SPECIAL HANDLING: Stable 7 days at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 - 30 days: 61-734 U/L

1 month-14 years: 61-490 U/L 15 Years +: 111-233 U/L METHODOLOGY: UV

CLINICAL USE: Aid in the diagnosis and treatment of liver

diseases such as acute viral hepatitis, cirrhosis and metastatic carcinoma of the liver, cardiac diseases such as myocardial infarction, and

tumors of the lung or kidneys

CPT: 83615

[LDHAS] Body Fluid Lactate Dehydrogenase

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: UV

CLINICAL USE: A fluid LD activity nearly equal to the plasma

activity is usually associated with inflammatory

processes CPT: 83615

[LDHCSF] CSF Lactate Dehydrogenase

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 7-30 U/L

METHODOLOGY: UV

CLINICAL USE: Lactate dehydrogenase (LD) is a normal component

of CSF. Increased amounts may occur in association

with ischemic necrosis, meningitis, leukemia, metastatic cancer of the CNS, and lymphoma

CPT: 83615

[LDHFL] Body Fluid Lactate Dehydrogenase

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Transudate 200 U/L

METHODOLOGY: UV

CPT: 83615

[LDHIV] HIV (1&2) Ag and Ab (Rapid)

SPECIMEN REQUIRED: EDTA whole blood/plasma

TUBE OR CONTAINER: Lavender(EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 hour REFERENCE RANGE: Nonreactive METHODOLOGY: Rapid Immunoassay

REFLEX TEST INFORMATION: Confirmatory HIV-1 and HIV-2 antibody

differentiation assay testing will be added at an additional charge for

reactive results

CLINICAL USE: Detect the presence of HIV-1/2 antibodies or

HIV-1 p24 antigen.

CPT: 87389

[LDHPC] Pericardial Fluid LDH

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Enzymatic rate

CLINICAL USE: A fluid LD activity nearly equal to the plasma

activity is usually associated with inflammatory

processes CPT: 83615

[LDHPL] Pleural Fluid LDH

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic rate

CLINICAL USE: A fluid LD activity nearly equal to the plasma

activity is usually associated with inflammatory

processes CPT: 83615

[LDHPT] Peritoneal Fluid LDH

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Enzymatic rate

CLINICAL USE: A fluid LD activity nearly equal to the plasma

activity is usually associated with inflammatory

processes CPT: 83615

[LDHSY] Synovial Fluid LDH

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Enzymatic rate

CLINICAL USE: A fluid LD activity nearly equal to the plasma

activity is usually associated with inflammatory

processes CPT: 83615

[LDLD] LDL Cholesterol Direct

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (Li Heparin) or Gold SPECIAL HANDLING: Specimen Stability: 7 days refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: 2-17 years: 18 years +: OTHER NAMES: Low-Density

Lipoprotein Cholesterol (Direct)

METHODOLOGY: Homogeneous enzymatic colorimetric CLINICAL USE: Evaluate risk of developing coronary artery

disease CPT: 83721

[LDS] Loeys-Dietz Syndrome

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing of SMAD3, TGFB2, TGFBR1 & TGFBR2

TEST AVAILABILITY: Daily

TURNAROUND TIME:

METHODOLOGY: Next-generation Sequencing (NGS)

CPT: 81479

[LEAD] Lead

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA), Tan (EDTA) or Lavender

(EDTA) microtainer for pediatrics

Royal Blue (EDTA) adults

Lavender (EDTA) will no longer be accepted

after 10/1/13 for for a specimen collected

by venipuncture

(Lavender only accepted for capillary

collection, but not recommended)

SPECIAL HANDLING: Please contact laboratory for correct tube

SPECIMEN VOLUME: Adult 3 mL

Pediatric 1 mL

MINIMUM VOLUME: Adult 1 mL

Pediatric 500 uL

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days

REFERENCE RANGE: 0-15 years: 0-4 ug/dL

OTHER NAMES: Pb, Blood

METHODOLOGY: Atomic absorption spectrometry (AAS) CLINICAL USE: Monitor environmental lead exposure

CPT: 83655

[LEADU] Urine Lead

SPECIMEN REQUIRED: Urine at room temperature (random)

TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: METHODOLOGY: Atomic absorption

spectrometry (AAS); inductively

coupled plasma mass spectrometry (ICP-MS)

CLINICAL USE: Monitor exposure to lead or lead chelation therapy

CPT: 83655

[LEBERS] LEBERS HEREDITARY OPTIC NEURO

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 12 weeks

METHODOLOGY: Next generation sequencing; Duplication/deletion

analysis

CPT: 81228; 81406

[LEF] Leflunomide Level

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube;

Separate from cells within 45 minutes of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

OTHER NAMES: Arava; Teriflunomide; A77/1726

METHODOLOGY: Liquid Chromatography Tandem Mass Spectrometry

(LCMSMS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 82542

[LEGDFA] Legionella Direct FA (LAB)

SPECIMEN REQUIRED: Refrigerated lung biopsy, lung exudate,

pleural fluid, transtracheal aspirate,

sputum, bronchial washing

TUBE OR CONTAINER: Sterile leakproof container

SPECIAL HANDLING: Specimen must be received in the laboratory

before 1:30 p.m., Monday - Friday only

SPECIMEN VOLUME: 1 mL lung exudate or 1 cc lung biopsy

TEST AVAILABILITY: Monday-Thursday

REFERENCE RANGE: No Legionella pneumophila detected

METHODOLOGY: Direct fluorescent antibody (DFA)

CLINICAL USE: Determine the presence of Legionella pneumophila

organisms in direct FA smear of specimen,

providing rapid diagnosis

CPT: 87278

[LEGGCSF] Legionella pneumophilia IgG Grp 1-6

SPECIMEN REQUIRED: Refrigerated CSF

TUBE OR CONTAINER: CSF tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: < 1:128 Negative - No significant level of

Legionella pneumophila Type 1-6 IgG antibody

detected

1:128 Equivocal - Questionable presence of Legionella pneumophila Type 1-6 IgG antibody detected. Repeat testing in 10-14 days may

be helpful.

1:256 or greater Positive - Presence of

Legionella pneumophila Type 1-6 IgG antibody

detected, suggestive of current or past

infection.

METHODOLOGY: Indirect Fluorescent Antibody (IFA) CLINICAL USE: Antibody detection for recent infection

CPT: 86713

[LEGMCSF] Legionella pneumophilia IgM Grp 1-6

SPECIMEN REQUIRED: Refrigerated CSF

TUBE OR CONTAINER: CSF tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: < 1:16

METHODOLOGY: Indirect Fluorescent Antibody (IFA)

CLINICAL USE: Antibody detection for recent or current infection

CPT: 86713

[LEGP] Legionella pneumophilia S1-6 Abs

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 86713

[LEGPNEAG] Legionella pneumophila AG-UR

SPECIMEN REQUIRED: Refrigerated urine

TUBE OR CONTAINER: Plastic, screw-capped container

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6 hours

REFERENCE RANGE: Legionella pneumophila serogroup 1 antigen

NOT DETECTED.

METHODOLOGY: Immunochromatographic assay

CLINICAL USE: Confirm the diagnosis of Legionella pneumophila

infection CPT: 87899

[LEISH] Leishmaniasis Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days

REFERENCE RANGE: 0 units: Negative - no significant level of

Leishmania antibody, IgG detected

METHODOLOGY: Semi-Quantitative Immunoassay

CPT: 86717

[LEP] Leptin

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Fasting specimen recommended

Separate and freeze within 1 hour SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

METHODOLOGY: Double antibody RIA

CPT: 83519

[LEPM] Leptospira IgM Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold or Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE:

Negative: No significant level of antibody detected

Equivocal: Questionable presence detected. Repeat testing

in 10-14 days may be helpful.

Positive: Presence of IgM antibody to Leptospira detected,

suggestive of a current or recent infection.

OTHER NAMES: Canicola Fever; Ft Bragg Fever; Swamp Fever;

Weil Disease

METHODOLOGY: ImmunoDot

CLINICAL USE: Detection of specific antibody of the IgM class to

Leptospira genus specific antigen

CPT: 86720

[LEPR] LEPR-RELATED OBESITY

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: Monogenic Non-Syndromic Obesity Autosomal

Recessive; LEPR- Related Obesity Monogenic

Nonsyndromic; Leptin Receptor Deficiency; Morbid

Obesity with Hypogonadism

METHODOLOGY: Bi-directional sequencing

CPT: 81479

[LEPSEQ] LEP-RELATED OBESITY

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: Obesity Severe due to Leptin Deficiency; Monogenic

Non-Syndromic Obesity Autosomal Recessive; LEP-

Related Obesity Monogenic Nonsyndromic METHODOLOGY: Bi-directional sequencing

CPT: 81479

[LEPTOST] Leptospira Stain

[LESY] Synovial Fluid LE Cells

[LEUC] Leucine Level

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Green (heparin)

SPECIAL HANDLING: Centrifuge and freeze plasma immediately

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days

REFERENCE RANGE: < 1 month: 3.7 - 21 mol/dL

1 month - 16 yr: 4.3 - 20 mol/dL >16 years: 6.1 - 20 mol/dL

METHODOLOGY: High-pressure liquid chromatography (HPLC)

CPT: 82131

[LEUFEC] Leukotest (Fecal)

SPECIMEN REQUIRED: Refrigerated raw stool (must be loose/liquid)

TUBE OR CONTAINER: Tightly sealed container SPECIAL HANDLING: No preservative is required

Note: For patients 16 years and older

ORDERING MODULE: MIC
TEST AVAILABILITY: Daily
TURNAROUND TIME: 1 day
REFERENCE RANGE: Negative

METHODOLOGY: Latex agglutination

CLINICAL USE: Aid in differential diagnosis of diarrheal disease

CPT: 83630

[LEVAMU] Urine Levamisole

SPECIMEN REQUIRED: Refrigerated or frozen urine (24-hour TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

METHODOLOGY: Liquid Chromatography-Tandem Mass Spectrometry

(LC-MS/MS) CPT: 80375

[LEVO] Carbidopal Levodopa (Sinemet) Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.7 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

OTHER NAMES: Sinemet; Atamet; Parcopa

METHODOLOGY: High Performance Liquid Chromatography (HPLC)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[LFS] Li-FRAUMENI SYNDROME(P53 GENE)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 14 mL MINIMUM VOLUME: 6 mL

TEST INCLUDES: DNA testing for p53 gene mutations

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

REFERENCE RANGE: No mutation detected

METHODOLOGY: Direct sequencing of amplification products

CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81405

[LGI1AB] LEUCINE-RICH GLIOMA INACTIV

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Centrifuge and separate within 2 hours of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

REFERENCE RANGE: < 1:10 Negative

METHODOLOGY: Semi-Quantitative Indirect Fluorescent Antibody REFLEX TEST INFORMATION: If LGI1 antibody IgG is positive,

LGI1 antibody IgG titer will be added

at an additional charge

CLINICAL USE: Aids in diagnosis of Leucine-rich Glioma

Inactivated 1 Protein (LGI1) antibody disorders associated with limbic encephalitis, hyponatremia,

myoclonic movements. Disorders are rarely

associated with tumors.

CPT: 86255

[LH] Luteinizing Hormone

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Light Green (heparin) or Gold/Red

SPECIAL HANDLING: Stable 5 days room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

PEDIATRIC TEST INFO: Order PEDLH for pediatric testing

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Normally Menstruating Females

Follicular Phase 3.6 - 19.4 Mid-Cycle Peak 16.3 - 77.0

Luteal Phase 1.8 - 14.8

Postmenopausal Females 2.6 - 8.0

Males 2.6 - 8.0

METHODOLOGY: ECLIA

CLINICAL USE: Aid in evaluating the normalcy of hypothalamic-

pituitary-gonadal axis

CPT: 83002

[LHRH] Luteinizing Hormone-Releas Hormone

SPECIMEN REQUIRED: Frozen plasma with 0.25 ml Trasylol added

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate as soon as possible after collection

Freeze immediately after separation SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: 3-17 days

OTHER NAMES: Gonadotropin Releasing Hormone (GNRH)

METHODOLOGY: HPLC, Tandem Mass Spectrometry

CPT: 83727

[LIP] Lipase

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 9 - 64 U/L

METHODOLOGY: Enzymatic colorimetric

CLINICAL USE: Diagnosis and treatment of pancreatic disorders

CPT: 83690

[LIPFL] Body Fluid Lipase

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic colorimetric

CPT: 83690

[LIPID] Lipid Profile

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: For most valid results, specimen should be

collected following an overnight (or 12-14

hour) fast

NOTE: Ratio cannot be calculated on patients

with triglyceride values >400 SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Cholesterol, serum; Triglycerides, serum; HDL;

LDL, calculated; HDL/LDL ratio. TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: See individual tests METHODOLOGY: See individual tests

CLINICAL USE: Evaluate hyperlipidemia as an index to CAD

CPT: 80061

[LIPOA] Lipoprotein (a)

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, or Lavender (EDTA)

SPECIAL HANDLING: Separate from cells within 2 hours

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: 75 nmol/L may indicate

independent risk factor for CHD

METHODOLOGY: Immunoturbidimetric

CPT: 83695

[LISTAB] Listeria Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: < 1:8

METHODOLOGY: Complement Fixation

CPT: 86723

[LISTCSF] CSF Listeria Antibody

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile capped tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: < 1:1

METHODOLOGY: Complement Fixation (CF)

CLINICAL USE: Detection of intrathecally-produced Listeria

antibodies in CSF CPT: 86723

[LITH] Lithium Level

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: Plasma is NOT an acceptable specimen

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: Therapeutic: 0.5-1.5 mmol/L

Potentially toxic: >1.5

OTHER NAMES: Lithobid; Eskalith

CLINICAL USE: Monitor therapeutic drug levels; evaluate coma

CPT: 80178

[LKMAB] Liver/Kidney Microsomal Titer

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 10 days

REFERENCE RANGE: Negative: 0.0-20.0

Equivocal: 20.1-24.9

Positive: >24.9

OTHER NAMES: LKM; LKM-1 Antibodies; Liver-Kidney Microsomal Ab

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in the diagnosis of autoimmune hepatitis, type

2 (AIH-2) CPT: 86376

[LMBR1] ZRS VIA LMBR1 GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Zone of Polarizing Activity Regulatory Sequence

(ZRS) in the LMBR1 Gene in Triphalangeal Thumb

Polydactyly

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[LMNADNA] LMNA GENE MUTATION

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Emery-Dreifuss muscular dystrophy, dominant

METHODOLOGY: Polymerase Chain Reaction (PCR) CPT: 83890; 83891; 83894; 83898 x 13; 83904 x 13; 83912

[LOP] HIV Lopinavir Resistance

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

Must be separated within 45 minutes of

collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily OTHER NAMES: Kaletra

METHODOLOGY: High-Pressure Liquid chromatography (HPLC)

CLINICAL USE: Monitor lopinavir/ritonavir (Kaletra) therapy

CPT: 80299

[LPA3P] Max Prolif Soluble aCD28 as % CD3

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Specimen must be received in laboratory by

1:30 pm, Monday-Thursday only

Specimen must arrive at performing lab within

48 hours of collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Testing with 2 stimulants will always be

performed. When adequate specimen is available, a

third stimulant will be performed

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 6-9 days METHODOLOGY: Flow Cytometry

CLINICAL USE: Evaluating patients suspected of having

impairment in cellular immunity

CPT: 86353 x 2

[LPPLA2] LIPOPROT-ASSOC PHOSPHOLIP ACT

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: Low risk: < 75 nmol/min/mL

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: May aid in CVD risk stratification in specific

populations. CPT: 83698

[LSD] Lysergic Acid Diethylamide Level

Specimen required: Red-top 7 mL (3 mL Min) FRZ

Sample must be protected by light

[LTE4UR] Urine Leukotriene E4

SPECIMEN REQUIRED: Refrigerated or frozen urine (24-hour

(collection); Random accepted

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect 24-hour urine no preservative

(preferred); Specimen received in preservative

will be accepted

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days

REFERENCE RANGE: > 18 years of age: METHODOLOGY: Liquid

Chromatography-Tandem Mass Spectrometry

(LC-MS/MS)

CLINICAL USE: Aid in evaluation of patients suspected of having

systemic mastocytosis

CPT: 83789

[LYMEC6] Borrelia burgdorferi C6 Pep (EIA)

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

REFERENCE RANGE: METHODOLOGY: Enzyme linked immunosorbent assay

(ELISA)

REFLEX TEST INFORMATION: Reflex to Western blot on positive

results at an additional charge

CLINICAL USE: Aid in the diagnosis of acute and later stages of

infections by Borrelia burgdorferi

CPT: 86618

[LYMEPCR] Lyme Disease DNA (PCR)

SPECIMEN REQUIRED: Room temperature whole blood; Frozen CSF

or synovial fluid

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)-blood or

sterile tube (CSF)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

METHODOLOGY: Polymerase chain reaction (PCR) amplification and

DNA probe detection

CLINICAL USE: Detect Borrelia burgdorferi (Lyme disease)

CPT: 87476

[LYMPH7] LYMPHOCYTE SUBSET 7 (IMMUNODEF

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (Heparin) or Lavender (EDTA) SPECIAL HANDLING: Specimen must be analyzed within 48 hours

(heparin) or 72 hours (EDTA) of collection

Specimen must be received in laboratory by

1330 on day collected

SPECIMEN VOLUME: 4 mL

MINIMUM VOLUME: 0.5 mL (pediatric)

TEST INCLUDES: T-cell subsets (include naive and memory

T-cells), B-cells, and NK-cells are evaluated

TEST AVAILABILITY: Monday-Friday (must arrive in the lab before

1:30 pm)

TURNAROUND TIME: 2-4 days METHODOLOGY: Flow Cytometry

CLINICAL USE: Aid in investigation of primary immunodeficiency

disorders

CPT: 86355; 86356 x 5; 86357; 86359; 86360

[LYMPHAG] Lymphocyte Blastogenesis Antigen

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (Heparin)

SPECIAL HANDLING: Specimen must arrive in Laboratory by 1:30

p.m., Monday-Thursday only

Must arrive at performing lab w/in 24 hours

of collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 7-14 days METHODOLOGY: Flow Cytometry

CPT: 86353

[LYMPHMIT] Lymph Blastogenesis Mitogens

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (Heparin)

SPECIAL HANDLING: Specimen must arrive in Laboratory by 1:30

p.m., Monday-Thursday only

Must arrive at performing lab w/in 24 hours

of collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Phytohemagglutinin, Pokeweed and Conconavalin

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 7-14 days METHODOLOGY: Flow Cytometry

CPT: 86353

[LYSENZ] Lysosomal Enzyme Screen Interpret

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: A clinical history must accompany the sample;

Specimen must arrive in laboratory by 1:30 Monday-Thursday only; ship same day as

collected

SPECIMEN VOLUME: 8-10 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Thursday METHODOLOGY: Spectrophotometry

CPT: 82657; 82658

[LYSOZ] Lysozyme

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: Male: 3.0-12.8 ug/mL

Female: 2.5-12.9 ug/mL

OTHER NAMES: Muramidase METHODOLOGY: Enzymatic

CLINICAL USE: Differential diagnosis of leukemia

CPT: 85549

[MACROPRL] MACROPROLACTIN

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA) SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing)

TEST INCLUDES: Prolactin, Monomeric Prolactin and percent

Macroprolactin

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

METHODOLOGY: Immunochemiluminometric assay (ICMA); PEG

precipitation CPT: 84146 x 2

[MAG] Magnesium Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 - 30 Day: 1.3-2.4 mg/dL

1 Month- 20 yrs: 1.9-2.4 mg/dL 20 Years+: 1.8-2.8 mg/dL

METHODOLOGY: Colorimetric endpoint

CPT: 83735

[MAGMCSF] Myelin Assoc Glycoprotein IgM Ab

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile capped tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-10 days REFERENCE RANGE: Negative

METHODOLOGY: Indirect Immunofluorescence (IFA)

CPT: 83520 x 2

[MAGUR] Urine Random Magnesium

SPECIMEN REQUIRED: Room temperature random urine TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Colorimetric endpoint

CPT: 83735

[MALID] Malaria Speciation

[MANG] Manganese Level

SPECIMEN REQUIRED: RB-EDTA Whole blood at room temperature in

in original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will be temporarily accepted due to Royal Blue tube shortage, but may

report with a disclaimer.

SPECIAL HANDLING: Please contact laboratory for correct tube;

Submit original unopened tube SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: METHODOLOGY: Inductively

coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Evaluate industrial exposure

CPT: 83785

[MARFAN] FBN1 GENE FOR MARFAN SYNDROME

SPECIMEN REQUIRED: Whole blood on cool pack or cultured

fibroblasts

TUBE OR CONTAINER: Lavender (EDTA) or T25 flasks

SPECIMEN VOLUME: 10 mL for adults and children over 10 years old

3-5 mL - pediatric

4-confluent flasks for fibroblasts

MINIMUM VOLUME: 1 mL (newborn)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81408

[MARFNGS] MARFAN SYNDROME/TAAD

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 2 mL

TEST INCLUDES: Gene sequencing of ACTA2, COL3A1, COL5A1, COL5A2,

FBN1, FBN2, MED12, MYH11, SKI, SLC2A10, SMAD3,

TGFB2, TGFBR1, TGFBR2, CBS and FLNA

TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: Marfan Syndrome and related aortopathies; Thoracic

Aortic Aneurysm and Dissection (TAAD)

METHODOLOGY: Next-gen Sequencing (NGS)

CPT: 81405 x 3; 81406; 81408 x 2

[MATCONT] MATERNAL CELL CONTAMINATION

SPECIMEN REQUIRED: Whole blood or buccal swabs at room

temperature

TUBE OR CONTAINER: Lavender (EDTA) or Buccal swab

SPECIMEN VOLUME: 5 mL or 4 swabs

MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily

METHODOLOGY: PCR analysis of multiple short tandem repeat (STR)

loci

CLINICAL USE: Ensure accurate molecular prenatal diagnostic

test results CPT: 81265

[MAVIUMDNA] Mycobacterium avium Complex (LAB)

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days REFERENCE RANGE: Not detected

METHODOLOGY: Real-time Polymerase Chain Reaction (RT-PCR)

CPT: 87561

[MAX] Hydrochlorothiazide Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days REFERENCE RANGE: < 200 ng/mL OTHER NAMES: Diuril; Hydrodiuril

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[MAYOACANPCR] Acanthamoeba PCR detection

SPECIMEN REQUIRED: cornea, eye or ocular scrapings, (5-10 mm),

contact lens, or 1 mL contact lens solution

Submit tissue in a sterile container with

1 mL of sterile saline or viral transport

media.

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87798

[MAYOHPCS] H.pylori culture & sens MAYO

SPECIMEN REQUIRED: 0.5 mL or 0.5 x 0.2 x 0.2 cm piece of tissue

TUBE OR CONTAINER: Sterile screw-top vial

SPECIAL HANDLING: Deliver to lab IMMEDIATELY; DO NOT ADD

formalin or CytoLyt. Submit separate specimen

for pathology

ORDERING MODULE: MIC

TEST INCLUDES: Culture and sensitivity if indicated

TEST AVAILABILITY: Monday-Friday 7:00 am to 2:00 pm

TURNAROUND TIME: 7-28 days

METHODOLOGY: Culture & MIC susceptibility testing

CPT: 87081 and 87077 (if appropriate)

[MBC] MBC (Min Bactericidal Conc)

[MBLP] Mannose Binding Protein

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 83520

[MBTID] MBTID

[MCCC1] 3-METHYLCROT-CoA CARBOXYLASE

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks OTHER NAMES: 3-Methylcrotonyl-CoA Carboxylase Deficiency

(MCCC1) Gene Sequencing

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81479

[MCCC2] 3-METHYLCROT-CoA CARBOXYLASE

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: 3-Methylcrotonyl-CoA Carboxylase Deficiency

(MCCC2) Gene Sequencing

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81406

[MDA5] MDA5 Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

CPT: 84182

[MDM] MYOTONIC MUSCULAR DYSTROPHY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

OTHER NAMES: DMPK gene repeat expansion analysis METHODOLOGY: PCR-amplification, Fragment analysis

CLINICAL USE: The MDY1 probe from the myotonin protein kinase

gene is used to identify large expansions of the CTG repeat region with Nco I or BamHI digested DNA. The PCR assay is particularly sensitive for

identifying alleles between 30-80 repeats.

CPT: 81401

[MEASGCSF] CSF Rubeola (Measles) IgG Antibody

SPECIMEN REQUIRED: Refrigerated or frozen CSF

TUBE OR CONTAINER: Sterile Container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 0.89 AU or less: Negative

0.90-1.10 AU: Equivocal

1.11 AU or greater: Positive

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86765

[MEASMCSF] CSF Rubeola (Measles) IgM Antibody

SPECIMEN REQUIRED: Refrigerated or frozen CSF

TUBE OR CONTAINER: Sterile Container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

REFERENCE RANGE: 0.79 AU or less: Negative

0.80-1.20 AU: Equivocal 1.21 AU or greater: Positive

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86765

[MELAT] Melatonin Assay

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must be proteted from light.

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

METHODOLOGY: Radioimmunoassay (RIA)

CPT: 83519

[MEP] Meperidine (Demerol) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark Green (heparin), or Lavender (EDTA)

SPECIAL HANDLING: Collect specimen immediately prior to next

dose unless otherwise specified

Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Therapeutic: 70-500 ng/mL

Potentially toxic: >1000 ng/mL OTHER NAMES: Demerol

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80362

[MERC] Mercury Level

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will be temporarily accepted due to royal blue shortage, but result may report with a disclaimer.

SPECIAL HANDLING: Please contact laboratory for correct tube;

If specimen is collected for industrial

monitoring purposes, sample should be taken

at the end of the last shift of the workweek

Submit specimen in original tube SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 days

REFERENCE RANGE: Environmental exposure: 0.0-8.0 g/L

individuals consuming large quantities of seafood may have values as high as 200.0 g/L Occupational exposure: BEI: inorganic mercury (sampling time is end of shift at end of work

week): 15.0 g/L

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor exposure to mercury

CPT: 83825

[MERCAP] Mercaptopurine Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark Green (Heparin)

SPECIAL HANDLING: The use of serum separator tubes is not

recommended

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-9 days REFERENCE RANGE: < 1000 ng/mL OTHER NAMES: Purinethol; 6-MP

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection (HPLC-UV)

CLINICAL USE: Antineoplastic drug therapy

CPT: 80299

[MERO] MEROPENEM LEVEL

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: The use of serum separator tubes is not

recommended

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days

METHODOLOGY: Quantitative Bioassay CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[MET] Metronidazole Level

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days

METHODOLOGY: High Performance Liquid Chromatography (HPLC)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[METFORM] Metformin (Glucophage) Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days

METHODOLOGY: High Performance Liquid Chromatography/Tandem Mass

Spectrometry (LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[METH] Methadone Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark Green (heparin), or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Therapeutic: 100-400 ng/mL

Potentially toxic: >2000 ng/mL OTHER NAMES: Dolophine

METHODOLOGY: Liquid chromatography mass spectrometry (LC-MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80358

[METHALB] Methemalbumin

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

METHODOLOGY: Spectrophotometry (SP)

CPT: 83857

[METHAMPH] METHAMPHETAMINE & METABOLITE

SPECIMEN REQUIRED: Refrigerated or frozen whole blood

TUBE OR CONTAINER: Gray (sodium fluoride)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Methamphetamine and Amphetamine

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: Methamphetamine: 10 - 100 ng/ml

Amphetamine: 10 - 100 ng/ml

OTHER NAMES: D-desoxyephedrine; Desoxyn; Methedrine

METHODOLOGY: Gas Chromatography/Mass Spectrometry (GC/MS)

CPT: 80324

[METHBCO] Methemoglobin

SPECIMEN REQUIRED: Whole blood on ice

TUBE OR CONTAINER: Lt/Dk Green (heparin) or Heparinized syringe SPECIAL HANDLING: Keep specimen on ice and transport to lab

immediately; do NOT open

Test should be performed within 2 hours

REASON FOR REJECTION: Specimen at room temp >20 minutes or on

ice longer than 2 hours

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 hour REFERENCE RANGE: 0.0-1.0%

METHODOLOGY: Spectrophotometry CLINICAL USE: Evaluate cyanosis

CPT: 83050

[METHEMRED] Methemoglobin Reductase

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Preferred ACD solution-B (yellow)

Lavender (EDTA) is acceptable. SPECIMEN VOLUME: 6 mL

MINIMUM VOLUME: 1.0 mL (pediatric)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: < 1 year: No reference values established

>/= 1 year: 6.6-13.3 U/g Hb

OTHER NAMES: Cytochrome B reductase; Diaphorase;

Ferrihemoglobin Reductase

METHODOLOGY: Kinetic Spectrophotometry (KS)

CPT: 82657

[METHION] Methionine Level

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Light Green (heparin)

SPECIAL HANDLING: Separate and freeze plasma within 1 hour of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days

METHODOLOGY: Liquid Chromatography/Tandem mass spectrometry

LC/MS-MS) CPT: 82131

[METHM] Methylmalonic Acid

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, or Light Green (heparin) SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days REFERENCE RANGE: 73-376 nmol/L

METHODOLOGY: Gas chromatography/mass spectrometry (GC/MS)

CLINICAL USE: Diagnose megaloblastic anemia

CPT: 83921

[METHU] Urine Methadone Screen

SPECIMEN REQUIRED: Urine at room temperature

TUBE OR CONTAINER: Urine cup SPECIMEN VOLUME: 30 mL MINIMUM VOLUME: 10 mL TEST AVAILABILITY: Daily REFERENCE RANGE: Negative OTHER NAMES: Dolophine METHODOLOGY: Immunoassay

REFLEX TEST INFORMATION: If detected, confirmation will be

added at an additional charge

CLINICAL USE: Evaluate toxicity and detection as drug of abuse

CPT: 80301

[METHX] Methotrexate Level

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red-no gel

SPECIAL HANDLING: Protect specimen from light and send to lab

STAT

Stable 14 days 2-8 degrees, separted from cells

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

OTHER NAMES: Mexate; MTX, Blood; Rheumatrex; Trexall

METHODOLOGY: Homogeneous Immunoassay

CLINICAL USE: Monitor therapeutic levels and evaluate potential

toxicity CPT: 80299

[METPHE] Methylphenidate (Ritalin) Level

SPECIMEN REQUIRED: Frozen plasma or serum

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA) SPECIAL HANDLING: Collect as a peak level 1-2 hours after dosing

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Therapeutic: 5.0-20.0 ng/mL

Potentially toxic: >40.0 ng/mL OTHER NAMES: Ritalin

METHODOLOGY: Gas chromatography/nitrogen-phosphorus detector

(GC-NPD)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[METPL] METANEPHRINE PLASMA

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: EDTA (lavender) PUT FROZEN PLASMA ON ICE!

SPECIAL HANDLING: Patient should be fasting overnight (water

and non-caffeinated soft drinks are

permissible)

The patient should be in a supine position for at least 15 minutes before and during

sample collection

It is preferable, but not essential, to draw

the sample without a tourniquet

Specimen must be sent to LAB on ICE.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Metanephrine; normetanephrine

TEST AVAILABILITY: Daily

REFERENCE RANGE: Normetanephrine: 0-145 pg/mL

Metanephrine: 0-62 pg/mL

OTHER NAMES: Metanephrine; Normetanephrine; Plasma

Metanephrines

METHODOLOGY: High-pressure liquid chromatography (HPLC) CLINICAL USE: Diagnose pheochromocytoma, a catecholamine-

secreting tumor of the adrenal medulla

CPT: 83835

[MEX] Mexiletine Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours REFERENCE RANGE: Therapeutic: 0.75-2.0 ug/mL

Potentially toxic: >2.0 ug/mL OTHER NAMES: Mexitil

METHODOLOGY: High Pressure Liquid Chromatography (HPLC) CLINICAL USE: Therapeutic monitoring and toxicity assessment

CPT: 80299

[MGMT] MGMT GENE METHYLATION ASSAY

SPECIMEN REQUIRED: Formalin-fixed, paraffin-embedded tissue

block or 4 unstained slides at room

temperature

TUBE OR CONTAINER: Tissue block or slides

SPECIAL HANDLING: Protect paraffin block from excessive. Ship

in cooled container during summer months

SPECIMEN VOLUME: Four unstained slides at 5 uM or FFPE tissue

block

MINIMUM VOLUME: Two unstained slides at 5 uM

TEST AVAILABILITY: Daily

METHODOLOGY: Quantitative methylation-specific polymerase chain

reaction (PCR) CPT: 81287

[MGRBC] Red Blood Cell Magnesium

SPECIMEN REQUIRED: Red blood cells at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Dark Green (heparin)

SPECIAL HANDLING: Centrifuge tube within 45 minutes of

collection; discard plasma; submit only the

RBC's in original tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: 4.2 - 6.8 mg/dL

METHODOLOGY: Atomic absorption spectrometry (AAS); inductively

coupled plasma-mass spectrometry (ICP-MS) CLINICAL USE: Evaluate magnesium deficiency

CPT: 83735

[MHATP] Treponema pallidum Antibody (MHA)

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: < 0.8

Equivocal: 0.8 - 1.2 Positive: > 1.2

METHODOLOGY: Enzyme Immunoassay (EIA)

CLINICAL USE: Confirmatory serology test for syphilis

CPT: 86780

| [MICACIGN6F] MIC, Acinetobacter GN6F TREK |
|---|
| [MICADDL] MIC, ADDITIONAL DRUGS (NO CHG) |
| [MICAER] MIC, AEROCOCCUS SPECIES |
| [MICBAC] MIC, BACILLUS SPP. |
| [MICBCGN6F] MIC, B.cepacia GN6F TREK |
| [MICCORYNE] MIC, CORYNEFORM GPRS |
| [MICENTC] MIC, ENTEROCOCCUS |
| [MICGEM] MIC, GEMELLA SPECIES |
| [MICGN6F] MIC, GRAM NEG GN6F TREK |
| [MICHACEK] MIC, HACEK |
| [MICHPB] MIC, HAEMOPHILUS TREK |
| [MICLCMAC] MIC, LabCorp M. avium complex |
| [MICLCMMAR] MIC, LabCorp M. marinum |
| [MICLCMTB] MIC, LabCorp M.tuberculosis |
| [MICLCNOC] MIC, LabCorp Nocardia |
| [MICLCRG] MIC, LabCorp Rapid Grower AFB |
| [MICLCSG] MIC, Labcorp Slow Grower AFB |
| [MICLIST] MIC, LISTERIA |
| [MICMAYOHP] Mayo H. pylori MIC |
| [MICMCAT] MIC, M.CATARRHALIS |
| [MICMICRO] MIC, MICROCOCCUS |
| [MICMISC] Miscellaneous Microbiology |

This order is to be used to enter test requests which do not

currently exist in Meditech. Please call the Microbiology Laboratory at 271-4006 to verify if the test needed does not have an order code.

If MISCMIC is required to enter the order, please be specific regarding the order requested, including specimen information. Use only one MISCMIC order per specimen.

[MICMISCGNR] MIC, MISC GNR (Tube/microtit)

[MICMORSP] MIC, Moraxella species

[MICNFGN6F] MIC, Non-fermenters GN6F TREK

[MICNMEN] MIC, N.MENINGITIDIS

[MICNOCREF] MIC, Noc/M.abs NJ NTM4

[MICNVS] MIC, NUTRITION.VARIANT STREP

[MICPAGN6F] MIC, P.aeruginosa GN6F TREK

[MICPAST] MIC, PASTURELLA SPP.

[MICRAB] Thyroid Antimicrosomal Antibody

SPECIMEN REQUIRED: Serum at room temperature TUBE OR CONTAINER: Red, Gold, or Lt Green

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 Days

REFERENCE RANGE: 0-6 days: 0-117 IU/mL

7 days to 3 months: 0-47 IU/mL

4-11 months: 0-32 IU/mL 1-5 years: 0-13 IU/mL 6-10 years: 0-18 IU/mL 11-19 years: 0-26 IU/mL >19 years: 0-34 IU/mL

OTHER NAMES: Antimicrosomal Ab; Antithyroid Microsomal Ab;

Thyroid Peroxidase Autoantibodies; TPO Antibodies

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Differential diagnosis of hypothyroidism and

thyroiditis CPT: 86376

[MICRGREF] MIC, RAPID GROWER NJ NTM6

[MICRHOD] MIC, RHODOCOCCUS SPECIES

[MICROB2U] Urine Beta-2-Microglobulin

SPECIMEN REQUIRED: Refrigerated random urine TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Have patient void and discard sample, then

drink a large glass of water and collect a urine sample in one hour; Adjust final pH to

6-8 with 1 mol/L NaOH

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: < 300 ug/L

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Evaluate renal disease; monitor certain types of

malignancies and AIDS

CPT: 82232

[MICROT] MIC, ROTHIA

[MICSGREF] MIC, SLOW GROWER AFB NJ NTM13

[MICSPNEU] MIC, STREP PNEUMONIAE

[MICSTA] MIC, STAPHYLOCOCCUS

[MICSTENOGN6F] MIC, S.maltophilia GN6F TREK

[MICSTR] MIC, STREP (not pneumo)

[MICVANR] MIC, INTRINSIC VAN RESIST GP

[MICYO3] MIC, YEAST TREK YO3

[MITO] Mitotane Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days

REFERENCE RANGE: < 100 ug/mL

OTHER NAMES: Lysodren

METHODOLOGY: Gas Chromatography/Flame Ionization Detection

(GC/FID)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[MJAB] MJ ANTIBODY

[MLDSEQ] Mold Organism Identification (LAB)

SPECIMEN REQUIRED: Pure culture: plate, slant or blood culture

bottle (pure) at room temperature

TUBE OR CONTAINER: Plate or slant

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days METHODOLOGY: RNA Sequencing

CPT: 87153

[MMA-A] METHYLMALONIC ACIDEMIA MMA-A

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[MMA-B] METHYLMALONIC ACIDEMIA MMA-B

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[MMA-CHC] MMA ACIDEMIA & HOMOCYSTINURIA

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Methylmalonic aciduria and homocystinuria, cblC

type; MMA-CHC gene sequencing

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404

[MMACSF] Methylmalonic Acid

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

CPT: 83921

[MMA-MUT] METHYLMALONIC ACIDEMIA MMA-MUT

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[MNRBC] MANGANESE PLASMA & RBC

SPECIMEN REQUIRED: Red blood cells (RBCs) AND Plasma at room

temperature

TUBE OR CONTAINER: Royal Blue (EDTA)

SPECIAL HANDLING: Please contact laboratory for correct tube;

Plasma should be separated from cells within

45 minutes of collection

SPECIMEN VOLUME: 3 mL each (plasma and RBCs) MINIMUM VOLUME: 2 mL each (plasma and RBCs)

TEST AVAILABILITY: Daily

REFERENCE RANGE: Manganese, plasma: Manganese, RBC: 11.0-23.0 ng/mL

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Evaluate manganese stores

CPT: 83785

[MNREF] Body Fluid Mononuclear WBCs

[MODAFBSM] Modified AFB Smear

[MODY3] MODY3 DNA (TCF1)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: DNA sequencing of the HNF1A gene

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

OTHER NAMES: HNF1A Gene mutation; Monogenic Diabetes

Evaluation; Maturity-Onset Diabetes of the Young

METHODOLOGY: DNA sequencing

CPT: 81405

[MOG] Myelin Assoc Glycoprotein Antibody

SPECIMEN REQUIRED: Refrigerated or Frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday, Tuesday, Thursday

TURNAROUND TIME: 5 days REFERENCE RANGE: Negative

OTHER NAMES: MOG-IgG, MOG, Optic Neuritis Antibody, Transverse

Myelitis Antibody, Vision Loss Antibody, ADEM

antibody, NMO antibody

METHODOLOGY: Flow Cytometry

REFLEX TEST INFORMATION: When the results of this assay require

further evaluation, the reflex titer test will be performed at an additional

charge.

CLINICAL USE: Dianosis of inflammatory demyelinating diseases

(IDD) with similar phenotype to neuromyelitis

optica spectrum disorder (NMOSD), including optic

neuritis (single or bilateral) and transverse

myelitis. CPT: 86255

[MOLY] Molybdenum Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Royal blue (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days REFERENCE RANGE: < 3.0 ng/mL

METHODOLOGY: Inductively Coupled Plasma/Mass Spectrometry

(ICP/MS)

CLINICAL USE: Exposure monitoring

CPT: 83018

[MONKEYPOXPCR] MONKEYPOX (ORTHOPOXVIRUS) PCR

SPECIMEN REQUIRED: Dry Swab (Polyester)

TUBE OR CONTAINER: Sterile aliquot tube or sleeve (PeopleSoft

No. 33235)

SPECIMEN VOLUME: 2 Swabs MINIMUM VOLUME: 2 Swabs

TEST INCLUDES: N/A

TEST AVAILABILITY: Varies TURNAROUND TIME: 2- 3 days

REFERENCE RANGE:

Test Result Reference Interval

Orthopoxvirus DNA Detect Abnormal Not Detected

Non-variola Orthopoxvirus DNA detected by real-time PCR

Orthopoxvirus DNA Equivocal Not Detected

Real-time PCR testing for non-variola Orthopoxvirus DNA result

is equivocal.

An equivocal result may occur in the case of an inadequate

specimen where definitive

detection of orthopoxvirus DNA could not be confirmed. If a patient diagnosis has not

been determined, submit an additional specimen for analysis.

Orthopoxvirus DNA Inconclusive Not Detected

Inconclusive for non-variola Orthopoxvirus DNA by real-time PCR.

An inconclusive

result may occur in the case of an inadequate specimen. If a patient diagnosis has not

been determined, submit an additional specimen for analysis.

Orthopoxvirus DNA Not Detected Not Detected

Non-variola Orthopoxvirus not DNA detected by real-time PCR

OTHER NAMES: MONKEYPOXPCR, LC140230 METHODOLOGY: Polymerase Chain Reaction

CLINICAL USE: Vesicular specimens collected from persons

infected with a non-variola

Orthopoxvirus (such as vaccinia, monkeypox, or cowpox) are

expected to produce a positive

result with this assay. Although this assay does not

differentiate vaccinia or monkeypox virus

from cowpox, camelpox, ectomelia or gerbilpox virus, a positive

result with this assay in the

United States is most likely due to monkeypox virus or vaccinia

virus; however, potential

exposure to other Orthopoxviruses should be considered.

CPT: 87593

[MONO] Monoscreen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1.0 mL MINIMUM VOLUME: 0.25 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative METHODOLOGY: RAPID EIA

CLINICAL USE: Detect heterophile antibody related to infectious

mononucleosis CPT: 86308

[MORTOT] Morphine Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-9 days REFERENCE RANGE: 10 - 70 ng/mL

OTHER NAMES: Astramorph; Duramorph; MS Contin; Roxanol

METHODOLOGY: Gas Chromatography/Mass Spectrometry (GS/MS)

CPT: 80361

[MPS1] MPS TYPE 1 (IDUA GENE)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: IDUA Gene Sequencing; Mucopolysacchardosis Type I

Hurler Syndrome

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81406

[MPS3A] Mucopolysaccharidoses Screen

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Ship same day as received; Monday-Thursday

only

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days

REFERENCE RANGE:

METHODOLOGY: Enzyme analysis

CPT: 82657

[MPS3C] Mucopolysaccharidoses Screen

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Ship same day as received; Monday-Thursday

only

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 5-7 days

REFERENCE RANGE:

OTHER NAMES: Sanfilippo, Type C - Acetyl CoA: glucosamine N-

acetvl transferase

METHODOLOGY: Enzyme analysis

CPT: 82657

[MPS3D] Mucopolysaccharidoses Screen

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Ship same day as received; Monday-Thursday

only

SPÉCIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days

REFERENCE RANGE:

METHODOLOGY: Enzyme analysis

CPT: 82657

[MPSENZ] MUCOPOLYSACCHARIDE ENZYM PANEL

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Dark green (heparin)

SPECIAL HANDLING: Whole blood must be shipped same day as

collected; Must arrive in lab Monday-Thursday

only before noon

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 7 mL

TEST INCLUDES: a-iduronidase, Iduronate-2-sulfatase, Heparan

-N-sulfatase, N-acetyl-a-glucosaminidase, Acetyl CoA:glucosamine N-acetyltrasferase, N-acetyl glucosamine-6-sulfatase, N-acetyl galactosamine-6-sulfatase, b-galactosidase,

Arylsulfatase B, b-glucuronidase

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 14 days METHODOLOGY: Enzymatic

CPT: 82657 x5

[MRD] Minimal Residual Disease Interpret

SPECIMEN REQUIRED: Bone marrow at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days METHODOLOGY: Flow Cytometry

CPT: 88184; 88185 per each additional marker

[MRSAS] MRSA Surveillance Screen

SPECIMEN REQUIRED: Swab of right & left nares

TUBE OR CONTAINER: BBL CultureSwab (or equivalent)

SPECIAL HANDLING: Surveillance cultures will be performed on

identified high-risk patient populations. Any patient with positive results will be placed in Contact Precautions.

Initiate MRSA Surveillance Screen at pre-op or during first 24

hours following admission.

Refer to OUMC Infection Control policy IC-15

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days

REFERENCE RANGE: No MRSA detected

METHODOLOGY: Culture

[MRSASH] MRSA Screen Workup

[MSEROTYPE] Microbiology serotyping

[MSNM43] MS NEG MIC PANEL 43

[MSNM56] MS NEG MIC PANEL 56

[MSNUC61] MS GRAM NEG URINE COMBO 61

[MSPC33] MS POS COMBO 33

[MSPM29] MS POS MIC 29

[MSPM34] MS POS MIC 34

[MSSTREP] MS MICROSTREP

[MTHFCSF] CSF 5-Methyltetrahydrofolate

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Special collection containers; contact Lab SPECIAL HANDLING: Must be in Lab Monday-Thursday by 2:00 pm

SPECIMEN VOLUME: 0.5 mL (each tube) TEST AVAILABILITY: Monday-Thursday only

TURNAROUND TIME: 1 week

METHODOLOGY: HPLC with electrochemical detection

CPT: 82542

[MTHFR] METHYLENETETRAHYDROFOLATE RED

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA), Pink, or Yellow (ACD)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

OTHER NAMES: Hyperhomocysteinemia, C677T and A1298C Mutations;

Methylenetetrahydrofolate Reductase

METHODOLOGY: Polymerase chain reaction (PCR)/Fluorescence

Monitoring

CLINICAL USE: Follow-up evaluation in individuals with

hyperhomocysteinemia; evaluation of patients with

venous thrombosis

CPT: 81291

[MUCIN] Synovial Fluid Mucin Clot

SPECIMEN REQUIRED: Refrigerated synovial fluid

TUBE OR CONTAINER: Green (heparin) or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Firmed clot formed

METHODOLOGY: Precipitation

CLINICAL USE: Differential diagnosis of joint disease

CPT: 83872

[MULLAB] Anti-Mullerian Hormone

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Gold or Red

CAUSE FOR REJECTION: Gross hemolysis, gross lipemia, specimen

out of stability

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-16 days

REFERENCE RANGE: Age and gender specific

OTHER NAMES: AMH

METHODOLOGY: Electrochemiluminescence

CPT: 83520

[MUMPG] Mumps Virus IgG Antibody

SPECIMEN REQUIRED: Room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday, Thursday

TURNAROUND TIME: 1-5 days

REFERENCE RANGE: Negative: Equivocal 0.35-0.49

Positive: >0.49

METHODOLOGY: Enzyme Linked Fluorescent Assay (ELFA)

CLINICAL USE: Determine immunity to mumps virus

CPT: 86735

[MUMPGCSF] CSF Mumps Virus IgG Antibody

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 0.90 - 1.09 IV: Equivocal

>/= 1.10 IV: Positive

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86735

[MUMPM] Mumps Virus IgM Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: Borderline: 0.80 - 1.20

Positive: >1.20

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of acute mumps infection

CPT: 86735

[MUMPMCSF] CSF Mumps Virus IgM Antibody

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days

REFERENCE RANGE: 0.91 - 1.09 IV: Equivocal

>/= 1.10 IV: Positive

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)

CPT: 86735

[MUMPPCR] Mumps Virus RNA (PCR)

SPECIMEN REQUIRED: Frozen or refrigerated buccal swab in viral

transport media

TUBE OR CONTAINER: Viral transport media

SPECIMEN VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

METHODOLOGY: Real-time polymerase chain reaction (PCR) CLINICAL USE: aid in the diagnosis of infection with Mumps virus

CPT: 87798

[MUNC13-4] MUNC13-4 GENE (FHL)

SPECIMEN REQUIRED: Room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis type 3

via MUNC13-4 gene

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[MURTYPAB] Murine Typhus (R.typhi) IgG Ab

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL

TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative (limit of detection): Present or past infection: 1:16-1:64

Recent infection: >=1:128

METHODOLOGY: Indirect fluorescent antibody (IFA)

CLINICAL USE: Detect antibodies following infection with murine

typhus CPT: 86317

[MYCOGAB] Mycoplasma pneumoniae IgG Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

REFERENCE RANGE: Negative: < 100 units/mL METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of atypical pneumonia

CPT: 86738

[MYCOMAB] Mycoplasma pneumoniae IgM Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

REFERENCE RANGE: Negative: METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of atypical pneumonia and

Stevens-Johnson syndrome by providing laboratory support for a Mycoplasma pneumoniae infection

CPT: 86738

[MYCOPCR] Mycoplasma pneumoniae DNA (PCR)

SPECIMEN REQUIRED: Refrigerated Throat/nasopharyngeal (NP)

swab, bronchoalveolar (BAL)/bronchial

wash/aspirate, NP wash/aspirate

TUBE OR CONTAINER: Sterile container or swab

SPECIMEN VOLUME: 1 mL BAL, pleural fluid or sputum

1 swab

MINIMUM VOLUME: 0.5 mL BAL, pleural fluid or sputum

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

METHODOLOGY: Real-time Polymerase Chain Reaction (PCR) CLINICAL USE: Aid in the diagnosis of infections caused by

Mycoplasma pneumoniae

CPT: 87581

[MYCOPCRBLD] Mycoplasma pneumoniae DNA (PCR)

SPECIMEN REQUIRED: 10mL ACD/YELLOW Whole Blood (5ml min)

TUBE OR CONTAINER: ACD/YELLOW Whole Blood

SPECIAL HANDLING: Collect Monday-Thursday Only. Must arrive at

testing lab within 48 hours of collection Keep at Room Temp.

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

METHODOLOGY: Real-time Polymerase Chain Reaction (PCR) CLINICAL USE: Aid in the diagnosis of infections caused by

Mycoplasma pneumoniae

CPT: 87581

[MYCOPNCSF] Mycoplasma pneumoniae DNA (PCR)

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: None detected

METHODOLOGY: Polymerase Chain Reaction

CPT: 87581

[MYCUREAPCR] Mycoplasma/Ureaplasma (RT-PCR)

SPECIMEN REQUIRED: Frozen tissue or fluids; embedded tissue at

room temperature

TUBE OR CONTAINER: Sterile container

TEST AVAILABILITY: Daily

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[MYD88] MYD88 L265P MUTATION

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-12 days

OTHER NAMES:

METHODOLOGY: Real-time Polymerase Chain Reaction CLINICAL USE: Useful in distinguishing lymphoplasmacytic

lymphoma (LPL) from other low-grade B-cell lymphoproliferative disorders which may be in

the differential diagnosis

CPT: 81479

[MYELAB] Anti-Myeloperoxidase Ab (p-ANCA)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.6 mL MINIMUM VOLUME: 0.3 mL

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 9.0 units/mL

OTHER NAMES: Anti-MPO Antibodies; MPO; pANCA-Specific Antibody

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Diagnosis and monitoring inflammatory activity in

primary systemic small vessel vasculitides

CPT: 86021

[MYELCSF] CSF Myelin Basic Protein

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Centrifuge CSF at 1500xg for 20 minutes and

place the supernatant in a separate tube. Ensure that residual fibrin and cellular

matter have been removed prior to transport

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.8 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0-4.0 mcg/L

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Diagnose multiple sclerosis w/in 5 days of onset

of symptoms; determine whether an MS patient is having an active demyelinating episode; determine

whether active demyelination is occurring in

patients being treated by intrathecal chemotherapy

or radiation therapy for neoplastic diseases involving the CNS; diagnose acute brain tissue

destruction in children, including newborns

CPT: 83873

[MYH7] MYH7-HYPERTROPHIC CARDIOMYOP

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Hypertrophic Cardiomyopathy and other MYH7-Related

Disorders via MYH7 gene sequencing

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81407

[MYH9-1] MYH9 RELATED DISORDERS TIER 1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Bi-directional Sanger Sequencing

CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[MYOG] Myoglobin

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Red

SPECIAL HANDLING: Stable 8 days at room temp

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 Hours

REFERENCE RANGE: Male: 28-72 ng/mL

Female: 25-58 ng/mL

METHODOLOGY: ECLIA

CLINICAL USE: Diagnose skeletal or myocardial muscle injury

CPT: 83874

[MYOGQLU] Urine Myoglobin

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative

CPT: 83874

[MYOGU] Urine Myoglobin, Quantitative

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect early morning specimen or immediately

after exercise

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: 0 - 5 ng/mL

METHODOLOGY: Immunochemiluminometric (ICMA)

CPT: 83874

[MYOT] COMPLETE MYOTONIA EVALUATION

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must arrive in lab by 1:00 pm Monday-Thursday

only

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL

TEST INCLUDES: CLCN1 DNA Sequencing, DM1 DNA, DM2 DNA, SCN4A

DNA Sequencing

TEST AVAILABILITY: Monday - Thursday only

TURNAROUND TIME: 21 - 28 days

REFERENCE RANGE: CLCN1 and SCN4A: No mutation detected,

DM1 normal: 5-34 CTG repeats; DM2 normal: Less than 177 base pairs

METHODOLOGY: Polymerase chain reaction (PCR), Fragment

analysis and Southern blot

CLINICAL USE: Detects CTG repeat expansions in the DMPK gene,

CCTG repeat expansions in the ZNF9 gene, and point mutations in the CLCN1 and SCN4A gene

CPT: 81401; 81479 x 3

[MYPEROX] Periph Blood Myeloperoxidase Stain

[NA] Sodium Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Separate from cells promptly

Specimen Stability: 14 days room temp

SPECIMEN VOLUME: 1.0 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 137-146 mmol/L METHODOLOGY: Ion-Selective Electrode

CLINICAL USE: Diagnosis and treatment of aldosteronism, diabetes

insipidus, adrenal hypertension, Addison's disease dehydration, inappropriate antidiuretic hormone secretion or other diseases involving electrolyte

imbalance CPT: 84295

[NAADG] N-Acetyl-alpha-D-Glucosaminidase

SPECIMEN REQUIRED: Frozen plasma, whole blood or fibroblasts at

room temperature

TUBE OR CONTAINER: Dark green (heparin) or T-25 flasks

SPECIMEN VOLUME: 4 mL (plasma); 10 mL (whole blood) or 2 flasks

MINIMUM VOLUME: 2 mL (plasma) or 5 mL (whole blood)

TEST AVAILABILITY: Daily

OTHER NAMES: Sanfilippo syndrome type B

CPT: 82657

[NACETYLUR] N-ACETYL-L-ASPARTIC ACID URINE

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days

REFERENCE RANGE: 19.7 +/- 10.8 mg/g creatinine

METHODOLOGY: Gas Chromatography/Mass Spectrometry (GC/MS)

CPT: 82543

[NADGAL] N-ACETYL-D-GALACTOSAMINIDASE

SPECIMEN REQUIRED: Frozen serum, whole blood or fibroblasts at

room temperature

TUBE OR CONTAINER: Gold, Red or T-25 flasks

SPECIAL HANDLING: Specimen must be received in the laboratory

by 1:00 p.m., Monday-Wednesday only Ship specimen overnight on same day of

collection

SPECIMEN VOLUME: 4 mL (serum); 10 mL (whole blood) or 2 flasks

MINIMUM VOLUME: 2 mL (serum) or 5 mL (whole blood)

TEST AVAILABILITY: Monday-Wednesday

OTHER NAMES: Schindler disease

CPT: 82657

[NAFL] Body Fluid Sodium

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Ion-Selective Electrode

CPT: 84295

[NASTL] Stool Sodium

SPECIMEN REQUIRED: Liquid stool TUBE OR CONTAINER: Plastic container

SPECIAL HANDLING: Stool must be in liquid form for analysis

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: No established range METHODOLOGY: Ion-Selective Electrode

CPT: 84302

[NATM] UR SODIUM TIMED

SPECIMEN REQUIRED: Refrigerated aliquot of 24-hour urine

TUBE OR CONTAINER: Plastic container

SPECIAL HANDLING: Collect 24-hour urine in container "P" (no

preservative)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 40-222 mmol/24 hour

METHODOLOGY: Ion-Selective Electrode

CLINICAL USE: Diagnose acromegaly; evaluate hypopituitarism and

hypothalamic lesions in children

CPT: 84300

[NAU] Urine Random Sodium

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (2 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: None established METHODOLOGY: Ion-Selective Electrode

CLINICAL USE: Work up for volume depletion, acute renal failure,

acute oliguria, and differential diagnosis of

hypnonatremia CPT: 84300

[NBL] NEUROBLASTOMA (ALK/PHOX2B)

SPECIMEN REQUIRED: Room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Ship M-Thurs only; refrigerate on weekend

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequence analysis of PHOX2B and ALK genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404; 81479

[NEIAG] N.meningitidis Antigens

SPECIMEN REQUIRED: Refrigerated serum or cerebrospinal fluid

TUBE OR CONTAINER: Red, Gold or sterile container

ORDERING MODULE: MIC

SPECIMEN VOLUME: 2 mL (serum)

8 mL (urine) 1 mL (CSF)

MINIMUM VOLUME: 1 mL (serum)

5 mL (urine) 0.5 mL (CSF)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Negative METHODOLOGY: Latex agglutination

CLINICAL USE:

CPT: 87899

[NEOP] Neopterin

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red or Lavender (EDTA)

SPECIAL HANDLING: Protect specimen from light

SPECIMEN VOLUME: 0.8 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Adults: METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Increased levels of neopterin are found during

impaired renal function and viral infection in transplant patients. Elevated levels are also indicators for conditions related to impaired

cellular immunity CPT: 83520

[NEOPCSF] Neopterin

[NEUROKA] Neurokinin A (Substance K)

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Z tube

SPECIAL HANDLING: Specimen must be collected in special Z-tube;

Call laboratory to order tube SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 40.0 pg/mL

METHODOLOGY: Direct radioimmunoassay (RIA)

CPT: 83519

[NEUTCAB] Cytoplasmic ANCA (c-ANCA) Antibody

SPECIMEN REQUIRED: Room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST INCLUDES: Detection of cytoplasmic autoantibodies

exhibiting p-ANCA or c-ANCA patterns

TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: 1:20

OTHER NAMES: ANCA; MPO-ANCA; PR3-ANCA METHODOLOGY: Indirect Fluorescent Antibody

CLINICAL USE: Diagnosis and monitoring inflammatory activity in

primary systemic small vessel vasculitides

CPT: 86256 x 2

[NEUTFUN] NEUTROPHIL FUNCTION

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Must arrive in Laboratory by 1:30 pm, Monday

through Thursday only Ship same day as collected

Must arrive at performing lab w/in 36 hours

of collection

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-4 days

METHODOLOGY: Flow Cytometry (FC)

CLINICAL USE: Useful in diagnosis of chronic granulomatous

disease and in overall metabolic integrity of

phagocytizing neutrophils

CPT: 82657

[NF1] NEUROFIBROMATOSIS TYPE 1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81408

[NF1DD] NEUROFIBROMATOSIS 1 DEL/DUP

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 14 days

METHODOLOGY: Multiplex Ligation-dependent Probe Amplification

CPT: 81479

[NF2] NEUROFIBROMATOSIS TYPE 2 DNA

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Bi-directional DNA sequencing

CPT: 81406

[NICK] Nickel

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube or plasma

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will be temporarily accepted

due to royal blue shortage, but result may

report with a disclaimer.

SPECIAL HANDLING: Please contact laboratory for correct tube;

Submit original unopened tube or serum or

plasma removed from a royal blue-top tube, & transfer to a certified metal-free plastic

transport tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 Days

REFERENCE RANGE: Environmental exposure: 0.6-7.5 g/L

Occupational exposure: Levels of 3.0-11.0 g/L

may be seen in refinery workers

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor exposure to nickel

CPT: 83885

[NIPBL] NIPBL-CORNELIA de LANGE SYNDR

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polyermase Chain Reaction (PCR) and Bi-directional

sequencing CPT: 81479

[NKFUNC] Natural Killer Cell Functional Assy

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (heparin)

SPECIAL HANDLING: Must arrive at performing lab within 24 hours

Specimen must arrive in lab before 1:30 p.m.

Monday-Thursday only

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL

TEST AVAILABILITY: Monday-Thursday

METHODOLOGY: Flow Cytometry

CPT: 86352; 86357

[NKX2-1] THYROID DYSGENESIS via NKX2-1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Congenital Hypothyroidism (Thyroid Dysgenesis) via

the NKX2-1/TTF1 Gene

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[NMDACSF] CSF NMDA Receptor IgG Antibody

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days REFERENCE RANGE: Negative

OTHER NAMES: N-methyl-D-aspartate Receptor antibody, IgG

METHODOLOGY: Indirect Immunofluorescence (IFA)

REFLEX TEST INFORMATION: If NMDA CSF antibody IgG is positive,

then an NMDA CSF antibody IgG titer is reported. Additional charges apply.

CLINICAL USE: Associated with autoimmune limbic encephalitis

CPT: 86255

[NMDAG] Anti-NMDA Receptor

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days REFERENCE RANGE: Negative

OTHER NAMES: N-methyl-D-aspartate Receptor antibody, IgG

METHODOLOGY: Indirect Immunofluorescence (IFA)

REFLEX TEST INFORMATION: If NMDA antibody IgG is positive, then

an NMDA CSF antibody IgG titer is reported. Additional charges apply.

CLINICAL USE: Associated with autoimmune limbic encephalitis

CPT: 86255

[NMOG] Neuromyelitis Optica IgG Antibody

SPECIMEN REQUIRED: Refrigereated or Frozen serum

(Serum good for 72 hours ambient) TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate from cells ASAP

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days REFERENCE RANGE: Negative

OTHER NAMES: Neuromyelitis Optica immunoglobulin G (NMO-IgG);

Aquaporin-4

METHODOLOGY: Fluorescence-Activated Cell Sorting Assay (FACS)

CPT: 86255

[NMOGCSF] CSF Neuromyelitis Optica IgG Ab

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days REFERENCE RANGE: Negative

METHODOLOGY: Indirect Immunofluorescence (IFA)

CPT: 86255

[NMOGCSFTITER] CSF Neuromyelitis Optica IgG Titer

[NMOIFGTITER] Neuromyelitis Optica IgG Antibody

[NOONAN] NOONAN SYNDROME SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Gene sequencing of PTPN11, SOS1, RAF1, KRAS,

SHOC2, BRAF, NRAS, RIT1, CBL, SPRED1, MAP2K1 (MEK1), MAP2K2 (MEK2), HRAS, ACTB and ACTG1

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 weeks

METHODOLOGY: NextGen sequencing (NGS)

CPT: 81405 x 2; 81406 x 2

[NORT] Nortriptyline (Aventyl) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender(EDTA)

SPECIAL HANDLING: Collect immediately prior to next dose

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 48 hours

REFERENCE RANGE: Therapeutic: 50-150 ng/mL

Potential toxicity: >500 ng/mL OTHER NAMES: Aventyl; Pamelor

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80335

[NOTCH1] NOTCH1 GENE SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

OTHER NAMES: Adams-Oliver Syndrome type 5 via NOTCH1 gene

METHODOLOGY: Sequencing of entire coding region

CPT: 81479

[NOTCH2] ALAGILLE 2 (ALGS2) VIA NOTCH2

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily

OTHER NAMES: Alagille syndrome 2 (ALGS2) via NOTCH2 gene

METHODOLOGY: Sanger sequencing

CPT: 81479

[NPHNGS] NEPHRONOPHTHISIS NEXTGEN SEQ

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Sequencing of the NPH genes ANKS6, CEP164,

CEP290, GLI2S, INVS, IQCB1, NEK8, NPHP1, NPHP3,

NPHP4, RPGRIP1L, SDCCAG8, TMEM67, TTC21B, WDR19

and ZNF423

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 months

METHODOLOGY: Next Generation Sequncing (NGS)

CPT: 81406; 81407; 81408; 81479 x 13

[NPM1] NPM1 MUTATION

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 3-5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days

METHODOLOGY: Polymerase Chain Reaction (PCR)/ Fragment Analysis

CPT: 81310

[NPS] NAIL-PATELLA SYNDROME (LMX1B)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

OTHER NAMES: LMX1B Gene Sequencing

METHODOLOGY: Bi-directional sequence analysis

CPT: 81479

[NSE] Neuron Specific Enolase

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 12.5 ng/mL

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Adjunct in the monitoring of patients with small

cell lung cancer (SCLC)

CPT: 86316

[NTMPCR] Mycobacterium DNA (PCR)

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87551

[NTX] CROSSLINKED TELOPEPTIDE/NTX

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Urine container

SPECIAL HANDLING: Collect the second void of the morning or an

aliquot of a 24-hour urine (no preservative

SPÉCIMEN VOLUME: 20 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Adults: Male: 0-62 mM BCE/mmol creatinine,

Female (20-49 yrs): 0-64 mM BCE/mmol creat

(>49 yrs): 0-89 mM BCE/mmol creat

Pediatrics: age-specific

OTHER NAMES: Collagen Cross-Linked N-Telopeptide; N-Telopeptide;

Osteomark

METHODOLOGY: Ortho Vitros Enhanced Chemiluminescence System

CLINICAL USE: Evaluation of osteoporosis and assessment of

antiresorptive therapy CPT: 82523; 82570

[NTXSER] N-Telopeptide

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Serum must be separated immediately after

clot formation and centrifugation SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (This volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE:

Male: mean: 14.8 nM BCE/L, range: 5.4-24.2 nM BCE/L Female: mean: 12.6 nM BCE/L, range: 6.2-19.0 nM BCE/L

OTHER NAMES: N-Telopeptide crosslinks METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Monitor antiresorptive therapy with estrogen and

calcium supplementation as well as drug therapy

CPT: 82523

[NUC5] 5'-Nucleotidase

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 2-10 IU/L METHODOLOGY: Kinetic - 340 nm

CLINICAL USE: Liver related enzyme used to work up cholestatic/

biliary obstruction and investigate the origin of

increased serum alkaline phosphatase

CPT: 83915

[NUSWABVAG] NUSWAB VAGINITIS

[O2HBCO] Oxyhemoglobin Percent

SPECIMEN REQUIRED: Whole blood on ice

TUBE OR CONTAINER: Green Tube (Heparin) or Heparinized syringe SPECIAL HANDLING: Keep specimen on ice and transport to lab

immediately; do NOT open

Test should be performed within 8 hours

Do not use EDTA

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 hour REFERENCE RANGE: 94-97 %

METHODOLOGY: Spectrophotometry

CPT: 84311

[O2SATCO] O2 Saturation

SPECIMEN REQUIRED: Heparinized whole blood

TUBE OR CONTAINER: Dark Green (heparin) or Heparinized syringe SPECIAL HANDLING: Transport to lab immediately; Do Not open

Test should be performed within 30 minutes

SPECIMEN VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours METHODOLOGY: Spectrophotometry

CPT: 82810

[OBP.] OBSTETRICS PANEL W/O TYPE/SCRN

SPECIMEN REQUIRED: Refrigerated whole blood and serum

TUBE OR CONTAINER: Gold and Lavender

SPECIMEN VOLUME: 4 mL each MINIMUM VOLUME: 2 mL each

TEST INCLUDES: CBC, RPR, HBsAg, Rubella Screen

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours

REFERENCE RANGE: See individual test METHODOLOGY: See individual test CPT: 85027; 86592; 86762; 87340

[OCCBLD] Fecal Occult Blood, Guaiac

SPECIMEN REQUIRED: Fresh stool or hemoccult slide

TUBE OR CONTAINER: Tightly sealed container or hemoccult slide

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 4 hours REFERENCE RANGE: Negative OTHER NAMES: Hemoccult METHODOLOGY: Guaiac

CLINICAL USE: Detection of gastrointestinal bleeding

CPT: 82272

[OCCBLDG] Gastric Occult Blood

SPECIMEN REQUIRED: Gastric contents

TUBE OR CONTAINER: Tightly sealed plastic container

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 4 hours REFERENCE RANGE: Negative METHODOLOGY: Guaiac

CLINICAL USE: Detection of gastrointestinal bleeding

CPT: 82271

[OCCBLDICT] FECAL OCCULT BLD ICT: FIT TEST

Immunochemical Fecal Occult Blood Test (FIT test)

SPECIMEN REQUIRED: Hemoccult ICT cards obtained from Micro lab

TUBE OR CONTAINER: Hemoccult ICT collection cards

SPECIAL HANDLING:

ORDERING MODULE: MIC

TEST AVAILABILITY: Daily (24/7)

TURNAROUND TIME: 4 hours REFERENCE RANGE: Negative

OTHER NAMES: Hemoccult ICT, FIT test METHODOLOGY: Immunochemical

CLINICAL USE: Detection of lower gastrointestinal bleeding.

NOT recommended for diagnosis of Upper gastrointestinal bleeding.

[OHCORT18] 18-OH-Corticosterone

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 45 minutes of collection

SPECIMEN VOLUME: 3 mL

MINIMUM VOLUME: 1 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days REFERENCE RANGE: Age-Specific METHODOLOGY: Mass Spectrometry

CPT: 83519

[OPANT] O&P Antigens Giardia/Cryptosp

SPECIMEN REQUIRED: Raw stool

TUBE OR CONTAINER: Para-Pak Formalin vial (pink top)

ORDERING MODULE: MIC

SPECIMEN VOLUME: 5 mL or walnut-size portion (minimum) TEST INCLUDES: Giardia antigen and Cryptosporidium antigen

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Diagnosis of infection with Giardia and/or

Cryptosporidium CPT: 87328; 87329

[OPDIR] Ova & Parasites, Direct Prep

SPECIMEN REQUIRED: Liquid stool, suspected worm or parasitic

insect

TUBE OR CONTAINER: Tightly sealed container

TEST AVAILABILITY: Monday-Friday TURN-AROUND-TIME: 72 hours

METHODOLOGY: Microscopy and/or visual exam

[OSFRAG] OSMOTIC FRAGILITY PROFILE

SPECIMEN REQUIRED: Refrigerated whole blood, in unopened tube

from patient and a normal unrelated person

(label NORMAL CONTROL)

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must arrive in laboratory by 1:00 p.m

on the day it is collected (Ship Mon-Fri only)

A Control specimen must be included

Specimen must arrive at performing lab within

72 hours of collection

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Immediate and 24 hour incubation

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 72 hours REFERENCE RANGE: Normal METHODOLOGY: Osmotic lysis

CLINICAL USE: Useful for suspected hereditary spherocytosis

CPT: 85557

[OSMO] Serum Osmolality

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red or Light Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 280-300 mOsm/kg METHODOLOGY: Freezing point depression

CLINICAL USE: Evaluate electrolyte balance, hyperosmolar status

and hydration status

CPT: 83930

[OSMOU] Urine Osmolality

SPECIMEN REQUIRED: Random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (6 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 300-900 mOsm/kg METHODOLOGY: Freezing point depression

CLINICAL USE: Evaluate concentration ability of kidneys;

evaluate electrolyte balance

CPT: 83935

[OSTEOC] Osteocalcin

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Centrifuge and freeze immediately

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily

OTHER NAMES: BGP; Bone GLA Protein

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Evaluate bone disease

CPT: 83937

[OTC] ORNITHINE TRANSCARBAMYLASE

SPECIMEN REQUIRED: Refrigerated whole blood or cultured amniocytes at room temperature

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD) or T-25 flasks

SPECIMEN VOLUME: 3 mL

2 T-25 flasks

MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 weeks

OTHER NAMES: Hyperammonemia via OTC gene; Ornithine

Transcarbamylase Deficiency

METHODOLOGY: Polymerase Chain Reaction (PCR)/Sequencing

CPT: 81405 (Sequencing)

[OVALFAT] Urine Oval Fat Bodies

[OVARAB] Anti-Ovary Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-10 days

OTHER NAMES: Anti-Steroidal Antibodies

METHODOLOGY: Indirect Immunofluorescence (IFA)

CPT: 86255

[OXAL] Plasma Oxalate

SPECIMEN REQUIRED: Frozen acidified plasma

TUBE OR CONTAINER: Dark Green (sodium heparin)

SPECIAL HANDLING: Collect specimen from a fasting patient; place

on wet ice and deliver to lab immediately;

Adjust pH to 1-3.5 with HCl

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Reference values have not been established for

patients < 21 and > 81 years of age

METHODOLOGY: Ion Chromatography (IC)

CPT: 83945

[OXCARB] Oxcarbazepine Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 ml TEST AVAILABILITY: Daily

REFERENCE RANGE: 10-35 ug/mL OTHER NAMES: GP 47680; Trileptal METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80183

[P155] p155/140 ANTIBODY

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 ml TEST AVAILABILITY: Daily

CPT: 83516

[PAH] PHENYLALANINE HYDROXYLASE(PAH)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81406

[PAI-1] PLASMINOGEN ACT INHIBIT-1 GENO

SPECIMEN REQUIRED: Room temperature or Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days

METHODOLOGY: Polymerase chain reaction (PCR) and restriction

fragment length polymorphism (RFLP) technologies

CLINICAL USE: Deep vein thrombosis (DVT) and coronary artery

disease (CAD) are associated with increased PAI-1 levels. Elevated PAI-1 levels may help predict risk of reinfarction in survivors of myocardial infarction, particularly in young individuals

CPT: 81400

[PAI1ACT] Plasminogen Activat Inhib-1 Activty

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA

MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: 0 - 14 IU/mL

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: May help predict risk of reinfarction in

survivors of myocardial infarction, particularly in young individuals. Deficiency of PAI-1, an extremely rare and difficult diagnosis to make, has been associated with a bleeding diathesis

CPT: 85415

[PANCRE] Pancreastatin

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Z tube

SPECIAL HANDLING: Specimen must be collected in special Z-tube;

Call laboratory to order tube SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 135 pg/mL

METHODOLOGY: Direct radioimmunoassay (RIA)

CPT: 83519

[PANPOLY] Pancreatic Polypeptide

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Patients should fast for 10 hours prior to

specimen collection

Freeze specimen within 4 hours of collection

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0-418.0 pg/mL METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Support a diagnosis of pancreatic endocrine

tumors CPT: 83519

[PAPA1] PAPA SYNDROME (PSTPIP1)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Pyogenic Sterile Arthritis, Pyoderma Gangrenosum,

and Acne (PAPA) Syndrome; PSTPIP1 gene analysis

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81479

[PAPHOS] Prostatic Acid Phosphatase

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily REFERENCE RANGE: 0.0-1.2 U/L

METHODOLOGY: Immunochemiluuminometric (ICMA)

CLINICAL USE: Aid in diagnosing and monitoring prostate cancer

CPT: 84066

[PARANEO] PARANEOPLASTIC AUTOANTIBODIES

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2.5 mL

TEST INCLUDES: Anti-Neuronal Nuclear Antibody (ANNA), and

and Purkinje Cell Cytoplasmic Antibody (PCCA)

TEST AVAILABILITY: Daily TURNAROUND TIME: 11-19 days

METHODOLOGY: Immunoflourescence antibody (IFA)

CLINICAL USE: Investigating neurological symptoms that appear in

the course of, or after, cancer therapy, and are

not explainable by metastasis CPT: 83519 x 5; 83520; 86256 X 9

[PARANEOCSF] PARANEOPLASTIC AUTOAB CSF

SPECIMEN REQUIRED: Refrigerated or frozen CSF

TUBE OR CONTAINER: CSF tube SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Anti-Neuronal Nuclear Ab, Type 1, 2 & 3, Anti-

Glial Nuclear Ab, Type 1, Purkinje Cell

Cytoplasmic Ab Type 1, 2 & Tr, Amphiphysin Ab,

CRMP-5-IgG

and Purkinje Cell Cytoplasmic Antibody (PCCA)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-9 days REFERENCE RANGE: < 1:2 Negative

METHODOLOGY: Immunoflourescence antibody (IFA); Western Blot

CLINICAL USE: An aid in the diagnosis of paraneoplastic

neurological autoimmune disorders related to carcinoma of lung, breast, ovary, thymoma, or

Hodgkin's lymphoma CPT: 86256 X 9

[PARATHR] Parathyroid Hormone Related Protein

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Collect specimen in chilled EDTA (lavender)

tube. OPTIONAL: Add 0.25 mL Trasylol (to be performed in lab); separate and freeze plasma

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 Days REFERENCE RANGE: < 2.0 pmol/L

OTHER NAMES: PTH-Related Peptide (PTH-rP); Parathyroid

Hormone-related Peptide

METHODOLOGY: Electrochemiluminescence (ECL)

CLINICAL USE: PTH-r is the principle mediator of humoral

hypercalcemia of malignancy

CPT: 82397

[PAR-ENTPCR] PARECHOVIRUS/ENTEROVIRUS PCR

SPECIMEN REQUIRED: Frozen serum, plasma or CSF

TUBE OR CONTAINER: Gold, Lavender (EDTA) or CSF tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Enterovirus and Parechovirus

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT)

CLINICAL USE: Detection of Enterovirus or Parechovirus

CPT: 87498; 87798

[PARIAB] Anti-Parietal Cell Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Negative: 0.0-20.0

Equivocal: 20.1-24.9 Positive: >24.9

OTHER NAMES: APCA; Gastric Parietal Cell Antibodies

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Differential diagnosis of pernicious anemia

CPT: 86256

[PAROX] Paroxetine Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days

REFERENCE RANGE: 20 - 200 ng/mL

OTHER NAMES: Paxil

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[PARVPCR] Parvovirus B19 DNA (PCR)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Detects the presence of parvovirus B19 DNA

CPT: 87798

[PARVPCRAMN] Parvovirus B19 DNA (PCR)

SPECIMEN REQUIRED: Frozen Amniotic fluid; uncentrifuged

TUBE OR CONTAINER: Sterile plastic tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Associated with still-birth, arthritis, aplastic

crisis and fifth disease

CPT: 87798

[PARVPCRQNT] Parvovirus B19 DNA (PCR)

SPECIMEN REQUIRED: Plasma, bronchial lavage/wash, tracheal

aspirate/wash, amniotic, pleural or

pericarial fluid at room temperature or

frozen

Frozen bone marrow

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container, screw top tube

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of

collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 2 mL plasma, CSF, bone marrow, fluids or

respiratory specimens

5 mg tissue

MINIMUM VOLUME: 0.5 mL plasma, CSF, fluids or respiratory

specimens

0.2 mL bone marrow

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Real-time Polymerase Chain Reaction (PCR-RT)

CPT: 87799

[PARVQLT] Parvovirus B19 DNA (PCR)

SPECIMEN REQUIRED: Slides from paraffin embedded tissue at room

temperature

Frozen CSF or synovial fluid

TUBE OR CONTAINER: Slides or sterile container

SPECIMEN VOLUME: 1 mL (fluids) MINIMUM VOLUME: 0.5 mL (fluids)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days REFERENCE RANGE: Not detected OTHER NAMES: Parvovirus B19 DNA

METHODOLOGY: Polyermase Chain Reaction (PCR)

[PATHREV] Pathologist Review (Hematology)

[PBG] Serum Porphobilinogen

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Protect specimen from light (wrap in foil)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0-0.1 mcg/mL

CPT: 84110

[PBM] PEDIATRIC BONE MARROW DIFF

[PBP2A] Penicillin binding protein 2a

[PC] Differential Comment

[PCC-MAX] PHEOCHROMOCYTOMA (PCC) MAX

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Pheochromocytoma (PCC) susceptibility via MAX gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[PCPFA] Pneumocystis DFA

SPECIMEN REQUIRED: Refrigerated bronchial washings, brushings,

lavages or induced sputums

VOLUME: 2 mL; 1 mL minimum

TUBE OR CONTAINER: Tightly sealed sterile container

SPECIAL HANDLING: Indicate specimen source; INDUCED SPUTUM

Expectorated sputum and suctioned respiratory

will NOT be accepted Do NOT add CytoLyt Deliver to lab ASAP

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative

METHODOLOGY: Direct fluorescent antibody (DFA)

CLINICAL USE: Determine presence of Pneumocystis jiroveci

CPT: 87281

[PCPPCR] Pneumocystis carnii/jiroveci (PCR)

SPECIMEN REQUIRED: Frozen bronchoalveolar lavage (BAL)

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days REFERENCE RANGE: Not detected

METHODOLOGY: Real-time Polymerase Chain Reaction (RT-PCR)

CPT: 87799

[PCRBORD] Bordetella PCR

SPECIMEN REQUIRED: Nasopharyngeal swab

Collection instructions: Specimens must be obtained with a dacron swab on a flexible wire which is passed gently

through the nose into the nasopharynx, rotated and removed.

Aspirates of the nasopharynx or bronchus are not

acceptable.

TUBE OR CONTAINER: Regan-Lowe tube media

SPECIAL HANDLING: Obtain a collection kit containing an NP

swab & Regan-Lowe agar tube, plus collection instructions from the Micro Lab (271-4006).

ORDERING MODULE: MIC TEST INCLUDES: Bordetella PCR TEST AVAILABILITY: Daily TURNAROUND TIME: 72 hours

REFERENCE RANGE: Negative for Bordetella METHODOLOGY: Polymerase chain reaction (PCR) CLINICAL USE: Detection of Bordetella pertussis and/or

parapertussis by PCR; establish diagnosis of whooping cough.

[PE-1] Stool Pancreatic Elastase

SPECIMEN REQUIRED: Refrigerated or frozen random stool (solid)

TUBE OR CONTAINER: Stool cup or neat vial container

SPECIMEN VOLUME: 3 grams MINIMUM VOLUME: 1 gram TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: > 200 ug E1/g stool

METHODOLOGY: Enzyme-linked Immunosorbent Assay (ELISA) CLINICAL USE: Identifies pancreatic exocrine insufficiency due

to chronic pancreatitis, gallstones, cystic fibrosis, cholelithiasis, diabetes mellitus, and

other conditions CPT: 82653

[PED17HYD] 17-Hydroxyprogesterone

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate and freeze within 1 hour

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.1 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

METHODOLOGY: High pressure liquid chromatography/tandem mass

spectrometry (HPLC/MS-MS)

CLINICAL USE: Markedly elevated in patients with congenital

adrenal hyperplasia (adrenogenital syndrome) due to 21-hydroxylase deficiency; evaluate hirsutism and/or infertility; assess certain adrenal or ovarian tumors with endocrine activity

CPT: 83498

[PEDALDOS] Aldosterone

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Age specific

METHODOLOGY: High pressure liquid chromatography/tandem mass

spectrometry (HPLC/MS-MS)

CLINICAL USE: Evaluate patients with hypertension and possible

hyperaldosteronism

CPT: 82088

[PEDDEOXC] 11-Deoxycortisol (Compound S)

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Separate within 1 hour of collection

Do not use for Metyrapone test SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days REFERENCE RANGE: Age-specific OTHER NAMES: Specific Compound S

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS) after chromatography and solvent

extraction

CLINICAL USE: Evaluate hypothalamic-pituitary-adrenal axis and

pituitary ACTH reserve

CPT: 82634

[PEDDHEA] Dehydroepiandrosterone (DHEA)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days REFERENCE RANGE: Age-specific

OTHER NAMES: DHEA; Unconjugated DHEA

METHODOLOGY: Radioimmunoassay (RIA) after solvent extraction CLINICAL USE: Evaluate adrenal carcinomas which frequently

secrete large amounts of DHEA

CPT: 82626

[PEDDHEAS] Dehydroepiandrosterone (DHEA)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.1 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: Age-specific

OTHER NAMES: DHEA-S; DHEA-SO4; DHEA Sulfate

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Aid in the evaluation of androgen excess

(hirsutism and/or virilization), including Stein-Leventhal syndrome and adrenocortical diseases, including congenital adrenal hyperplasia and

adrenal tumor CPT: 82627

[PEDESTRA] Estradiol (E2) Level

SPECIMEN REQUIRED: Refrigerated serum/plasma TUBE OR CONTAINER: Red, Gold or Lt Green

SPECIAL HANDLING: Stable 24 hrs Room Temp, 2 days Refrigerated

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age-specific

METHODOLOGY: ECLIA

CLINICAL USE: Assess hypothalamic and pituitary function; assess

ovarian failure and follicular maturation. In males, E2 measurements may be helpful in the assessment of unexplained gynecomastia

CPT: 82670

[PEDESTRO] Total Estrogens

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: Age-specific

METHODOLOGY: Radioimmunoassay (RIA) after solvent extraction CLINICAL USE: Evaluate for ovarian estrogen producing tumor in

the premenarcheal and postmenopausal female;

evaluate estrogen excess in males

CPT: 82672

[PEDFSH] Follicle Stimulating Hormone

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold, LT Green (heparin)

SPECIAL HANDLING: Stable 5 days at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age-specific

METHODOLOGY: ECLIA

CLINICAL USE: Distinguish primary gonadal failure from secondary

(hypothalamic/pituitary) causes of gonadal failure, menstrual disturbances and amenorrhea

CPT: 83001

[PEDIGF1] Insulin-like Growth Factor I

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.1 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: Age-specific

OTHER NAMES: IGF-1; Somatomedin-C, Sulfation Factor

METHODOLOGY: Blocking radioimmunoassay (RIA) after acid:alcohol

extraction

CLINICAL USE: Diagnose acromegaly, in which Sm-C and GH are

increased; evaluate hypopituitarism and hypothalamic lesions in children (diagnosis of dwarfism and response to therapy).

CPT: 84305

[PEDIGFBP1] Insulin-like GF Binding Protein-1

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.1 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days REFERENCE RANGE: Age-specific

METHODOLOGY: Immunochemiluminometric assay (ICMA)

CPT: 83519

[PEDIGFBP2] Insulin-like GF Binding Protein-2

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-20 days REFERENCE RANGE: Age-specific

METHODOLOGY: Radioimmunoassay (RIA)

CPT: 83519

[PEDIGFBP3] Insulin-like GF Binding Protein-3

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA) SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.25 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: Age-specific

OTHER NAMES: Insulin-like Growth Factor Binding Protein-3 METHODOLOGY: Radioimmunoassay (RIA) in dilute serum CLINICAL USE: Aids in evaluation of growth hormone secretion

CPT: 83519

[PEDLH] Luteinizing Hormone

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold or Lt Green SPECIAL HANDLING: Refrigerated Serum/Plasma

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day METHODOLOGY: ECLIA

CLINICAL USE: Aid in evaluating the normalcy of hypothalamic-

pituitary-gonadal axis

CPT: 83002

[PEDPROGEST] Progesterone Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold, or Lt Green (heparin SPECIAL HANDLING: Stable for 24 hours at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Not established for males or prepubertal female

METHODOLOGY: ECLIA

CPT: 84144

[PEDPROLAC] Prolactin

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold or Light Green (heparin)

SPECIAL HANDLING: Separate from cell promptly.

Stable 5 days room temp

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Male: 4.1 - 28.4

Female: 1.9 - 46.9

METHODOLOGY: ECLIA

CLINICAL USE: Pituitary function test

CPT: 84146

[PEDREN] Renin Activity

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: Age-specific

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Aid in differential diagnosis of individuals with

hypertension CPT: 84244

[PEDTEST] Total Testosterone

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: Age-specific

METHODOLOGY: High-pressure liquid chromatography (HPLC)

CLINICAL USE: Indicator of LH secretion and Leydig cell

function; evaluate gonadal and adrenal function; aid in diagnosis of hypogonadism, hypopituitarism, Klinefelter syndrome, and impotence (low values) in males, and hirsutism, anovulation, amenorrhea,

and virilization in females

CPT: 84403

[PEMPHAB] PEMPHIGOID AB PANEL

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: IgG and IgA epithelial BMZ antibodies and IgG

bullous pemphigoid BP 180 & 230 antigens

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-10 days

REFERENCE RANGE: Basement Membrane Zone Ab: < 1:10 Negative

Bullous Pemphigoid: < 9 Units

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA)/Indirect

Fluorescent Antibody (IFA)

CLINICAL USE: Aid in initial diagnostic assessment and disease

monitoring in pemphigoid, epidermolysis bullosa acquisita, and linear IgA bullous dermatosis

CPT: 83516 x 2; 86256 x 4

[PENTOBARB] Pentobarbital (Nembutal) Level

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

Also Acceptable: 5 mL blood in ORANGE RST, LIME GREEN PST, GOLD

SST or GREEN TOP tube Pediatric Draw: 3 Full RED (PLAIN)

MICROTAINERS

SPECIAL HANDLING: Do NOT use a serum-separator tube; Collect

specimen immediately prior to next dose

unless otherwise indicated SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL REFERENCE RANGE: 1-5 mg/L OTHER NAMES: Nembutal

METHODOLOGY: GC/MS

CLINICAL USE: Short-term treatment of insomnia; preoperative

sedation; high-dose barbiturate coma treatment for increased intracranial pressure or status epilepticus unresponsive to other therapy

CPT: 80345

[PEPSG1] Pepsinogen I

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender(EDTA)

SPECIAL HANDLING: Separate and freeze within 45 minutes of

collection

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 28 - 100 ng/mL

METHODOLOGY: Direct Radioimmunoassay

CPT: 83519

[PEPSG2] Pepsinogen II

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender(EDTA)

SPECIAL HANDLING: Separate and freeze within 45 minutes of

collection

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Daily REFERENCE RANGE: < 22 ng/mL

METHODOLOGY: Direct Radioimmunoassay

CPT: 83519

[PERF] Perforin/Granzyme B

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must arrive at performing lab within 24 hours

Specimen must arrive in lab before 1:30 p.m.

Monday-Thursday only

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday only

TURNAROUND TIME: 5-9 days METHODOLOGY: Flow Cytometry

CPT: 88184

[PEROXPLAS] PEROXISOMAL PLASMALOGEN FIBRO

SPECIMEN REQUIRED: Fibroblasts at room temperature

TUBE OR CONTAINER: T-25 flasks SPECIMEN VOLUME: 2 flasks MINIMUM VOLUME: 1 flask TEST AVAILABILITY: Daily

OTHER NAMES: Peroxisomal Plasmalogen Synthesis (Fibroblast)

CPT: 82658

[PERPH] Perphenazine (Trilafon) Level

SPECIMEN REQUIRED: Frozen serum or plasma; Protect from light

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: The use of serum separator tubes is not

recommended

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-9 days

REFERENCE RANGE: 5.0 - 30.0 ng/mL

OTHER NAMES: Trilafon

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80342

[PERTA] Bordetella pertussis IgA Ab (FHA)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-9 days REFERENCE RANGE: Negative: < 9 units

METHODOLOGY: Enzyme Immunoassay (EIA)

CLINICAL USE: Establish evidence of early/acute infection with

Bordetella pertussis

CPT: 86615

[PETH] Phosphatidylethanol

SPECIMEN REQUIRED: Whole blood

TUBE OR CONTAINER: Lavendar or Gray

SPECIAL HANDLING: SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY:

TURNAROUND TIME: 5-10 days

REFERENCE RANGE: PEth levels in excess of 20 ng/mL are

considered evidence of

Moderate to heavy ethanol consumption.

METHODOLOGY: Liquid chromatography/tandem mass spectrometry CLINICAL USE: Measures blood levels of Phosphatidylethanol, an

alcohol-specific biomarker

CPT: 80321

[PF4] Platelet Factor 4

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: CTAD tube (please call ahead - Lab must

obtain special tube

SPECIAL HANDLING: Specimen must be collected in special tube

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 3-15 days REFERENCE RANGE: 0-35 (adults)

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Assess platelet activation

CPT: 83520

[PFA] Platelet Function Assay

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: To eliminate agitation of specimen during

transport, specimen should be collected at the

site where test is performed.

Specimen must be received at performing lab

within 4 hours of collection

Sample must be walked to the laboratory, held

in an upright position, with little to no

movement of the tube.

SPECIMEN VOLUME: 2 FULL tubes MINIMUM VOLUME: 1 FULL tube

TEST AVAILABILITY: Monday-Friday (must be received by 2:00 pm

(direct to Referrals)

TURNAROUND TIME: 24 hours

METHODOLOGY: PFA

CLINICAL USE: Evaluate platelet function

CPT: 85576

[PGD2] Prostaglandin D2

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender(EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 35 - 115 pg/mL

METHODOLOGY: Direct Radioimmunoassay

CPT: 84150

[PGD2UR] Urine Prostaglandin D2 24 Hr

SPECIMEN REQUIRED: Urine at room temperature or frozen (24-hour

(collection)

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect 24-hour urine in "P" container (no

preservative)

Provide 24 hour total volume SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 100 - 280 ng/24 hours METHODOLOGY: Direct Radioimmunoassay

CPT: 84150

[PGE2] Prostaglandin E2

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender(EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 250 - 400 pg/mL METHODOLOGY: Direct Radioimmunoassay

CPT: 84150

[PGL1SDHD] PARAGANGLIOMA 1-SDHD

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Hereditary Paraganglioma (PGL) Type 1 via SDHD

gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Diagnosis of familial SDHD gene mutations in

patients with paragangliomas or pheochromocytomas

CPT: 81404

[PGL2SDHAF2] PARAGANGLIOMA 2-SDHAF2

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Hereditary Paraganglioma (PGL) Type 2 via SDHAF2

gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Diagnosis of familial SDHAF2 gene mutations in

patients with paragangliomas or pheochromocytomas

CPT: 81479

[PGL3SDHC] PARAGANGLIOMA 3-SDHC

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Hereditary Paraganglioma (PGL) Type 3 via SDHC

gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Diagnosis of familial SDHC gene mutations in

patients with paragangliomas or pheochromocytomas

CPT: 81405

[PGL4SDHB] PARAGANGLIOMA 4-SDHB

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Hereditary Paraganglioma (PGL) Type 4 via SDHB

gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Diagnosis of familial SDHB gene mutations in

patients with paragangliomas or pheochromocytomas

CPT: 81405

[PGL5SDHA] PARAGANGLIOMA 5-SDHA

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Hereditary Paraganglioma (PGL) Type 5 via SDHA

gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CLINICAL USE: Diagnosis of familial SDHA gene mutations in

patients with paragangliomas or pheochromocytomas

CPT: 81479

[PGL-PCC] PARAGANGLIOMA/PHEOCHROMOCYTOMA

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing of SDHD, SDHAF2, SDHC, SDHB, SDHA

and MAX genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404; 81405 x 2; 81479 x 3

[PHD] Dialysate Fluid pH

SPECIMEN REQUIRED: Fluid on ice

TUBE OR CONTAINER: Sterile container or syringe

SPECIAL HANDLING: Specimen must be submitted on ice

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: None established METHODOLOGY: Electrochemical

CLINICAL USE: Determine pH of specimen

CPT: 83986

[PHENO] Phenobarbital Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Red SPECIAL HANDLING: Include time of last phenobarbital dose

Stable 7 days room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 14-38 mg/L

METHODOLOGY: KIMS

CLINICAL USE: Monitor patients for compliance, efficiency, and

possible toxicity CPT: 80184

[PHENYT] Phenytoin (Dilantin) Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin), Gold or Red SPECIAL HANDLING: Include time of last phenytoin dose

Stable 4 days room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 10.0-20.0 ug/mL

OTHER NAMES: Dilantin METHODOLOGY: KIMS

CLINICAL USE: Therapeutic monitor and assessment of toxicity

CPT: 80185

[PHFL] Body Fluid pH

SPECIMEN REQUIRED: Body fluid in syringe on ice TUBE OR CONTAINER: Heparinized syringe on ice

SPECIAL HANDLING: Remove needle from syringe; cap tightly; must

be tested within two hours of collection;

Do NOT centrifuge specimen;

Specify source of fluid

REJECTION: Reject if not recieved on ice or within one hour of

collection.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Electrochemical

CLINICAL USE: Aid in the diagnosis of pleuritis, empyema,

bacterial peritonitis, rheumatoid effusion,

carcinoma, and esophageal rupture

CPT: 83986

[PHGAS] Gastric Fluid pH

SPECIMEN REQUIRED: Gastric sample TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Notify chemistry when specimen is to be

collected

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Electrochemical-pH meter CLINICAL USE: Evaluate gastric acid secretion

CPT: 83986

[PHLDF] Philadelphia-like B Cell ALL

SPECIMEN REQUIRED: Bone marrow (Preferred)

TUBE OR CONTAINER: Yellow top (ACD), Acceptable: Green top

(heparin) or lavender (EDTA)

SPECIMEN VOLUME: Blood 6 mL; Bone Marrow 2-3 mL MINIMUM VOLUME: Blood-2mL; Bone Marrow-1mL

SPECIMEN REQUIRED: Blood

TUBE OR CONTAINER: Yellow top (ACD), Acceptable: Green top

(heparin) or lavender (EDTA)

SPECIMEN VOLUME: Blood-6mL MINIMUM VOLUME: Blood-2mL

SPECIAL INSTRUCTIONS:

ALGORITHM:

[PHOS] Phosphorus Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light green (heparin) or Gold SPECIAL HANDLING: Separate from cell within 2 hours

Stable 24 hrs room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 day: 1.5-4.6 mg/dL

1 month-3 years:3.7-6.3 mg/dL 4-12 years: 3.2-5.2 mg/dL 13 years-adult: 2.5-4.5 mg/dL

METHODOLOGY: Phosphomolybdate UV

CLINICAL USE: Aid in diagnosis and treatment of various

disorders, including parathyroid gland and kidney

disease, and vitamin D imbalance

CPT: 84100

[PHOSPHAT] PHOSPHATIDYLSERINE AB

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Anti-phosphatidylserine antibodies IgG, IgM & IgA

TEST AVAILABILITY: Daily

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in diagnosing aPS (antiphospholipid syndrome)

for assessing thrombotic risk

CPT: 86148 x 3

[PHOSUR] Urine Random Phosphorus

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Phosphomolybdate UV

CPT: 84105

[PHPL] Pleural Fluid pH

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Heparinized syringe

SPECIAL HANDLING: Remove needle from syringe; cap tightly; must

be tested within two hours of collection;

Do NOT centrifuge specimen; SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

CLINICAL USE: Determine pH of body fluid; pH of pleural fluid

relates to inflammatory states: in empyema and in loculated effusions pleural fluid pH is CPT: 83986

[PHSTL] Stool pH

SPECIMEN REQUIRED: Refrigerated stool (random) TUBE OR CONTAINER: Container with tight seal

SPECIMEN VOLUME: 1 gram MINIMUM VOLUME: 0.5 gram TEST AVAILABILITY: Daily REFERENCE RANGE: 7.0-7.5

METHODOLOGY: Aqueous stool suspension measured with pH paper

CLINICAL USE: Detect carbohydrate and fat malabsorption:

evaluate small intestinal disaccharidase

deficiencies CPT: 89240

[PHTNF] Free Phenytoin Level

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 0.8-2.2 mg/L OTHER NAMES: Dilantin Free

METHODOLOGY: Chemiluminescent

CLINICAL USE: May be helpful in overdosages, since only the free

portion can be cleared by dialysis

CPT: 80186

[PHU] Urine pH

SPECIMEN REQUIRED: Refrigerated urine (random)

TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 hours REFERENCE RANGE: 5.0-8.0 METHODOLOGY: Reagent strip

CLINICAL USE: Crude measure of the acid-base balance of the

body; aid in determining subtle presence of distal renal tubular disease or pyelonephritis; useful for identifying crystals in urine and determining predisposition to form a given type of stone

CPT: 83986

[PIGA] PIGA GENE MUTATION

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 weeks

CPT: 81479

[PIN] Pinworm Exam

SPECIMEN REQUIRED: Scotch tape with pinworm

COLLECTION: Collect specimen as soon as the patient awakens in the morning. Apply a piece of CLEAR scotch tape, sticky side down, to the perianal area. Remove the tape and place it

sticky side down, onto a clean glass slide. Label the slide

and place it into a slide carrier.

TUBE OR CONTAINER: Slide with tape

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 4 hours

REFERENCE RANGE: Negative for Enterobius vermicularis (pinworm)

METHODOLOGY: Microscopy

CLINICAL USE: Detection of pinworm

CPT: 87172

[PINP] Collagen Propeptide

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Serum must be separated immediately after

clot formation and centrifugation SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.4 mL (This volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: Male: 22-87 ug/L Female: Premenopausal: 19-83 ug/L

Postmenopausal: 16-96 ug/L

OTHER NAMES: Intact N-Terminal Propertide of Type 1 Procollagen

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Indicator of type I collagen turnover

CPT: 82523

[PIPEC] Pipecolic Acid

SPECIMEN REQUIRED: Room temperature plasma

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

OTHER NAMES: Piperidine-2 carboxylic acid

METHODOLOGY: Gas Chromatography-Mass Spectrometry (GC-MS)

CPT: 82542

[PIPECU] Urine Pipecolic Acid

SPECIMEN REQUIRED: Frozen urine TUBE OR CONTAINER: Random urine

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily

CPT: 82542

[PLA1-A2] HUMAN PLT ANTIGEN (HPA1a/b)

SPECIMEN REQUIRED: Room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Refrigerate if > 1 day delay

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 3-8 days

OTHER NAMES: Human Platelet Antigen 1 Genotype (HPA-1)

METHODOLOGY: Polymerase Chain Reaction (PCR) and Fluorescence

Monitoring CPT: 81400

[PLASM] Plasminogen Activity

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 2-7 days REFERENCE RANGE: 78 - 130%

METHODOLOGY: Streptokinase (SK) as mixed with the patient

sample and the resulting plasminogen-SK complex converts a chromogenic substrate to produce color

CLINICAL USE: Evaluate thrombotic disease; monitor thrombolytic

therapy; study dysplasminogen

CPT: 85420

[PLASMODPCR] Plasmodium species DNA (PCR)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days REFERENCE RANGE: Not detected OTHER NAMES: Malaria PCR

METHODOLOGY: Real-time Polymerase Chain Reaction (PCR) REFLEX TEST INFORMATION: If detected, additional testing to

determine species will be performed at

an additional charge

CLINICAL USE: Aid in identifying species to human pathogenic

Plasmodium sp (ie, P falciparum, P knowlesi,

P malariae, P ovale, and P vivax)

CPT: 87798

[PLAVPLT] Platelet Function Assay

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Contact Blood Bank for special tube

SPECIAL HANDLING: To eliminate agitation of specimen during

transport, specimen should be collected at the

site where test is performed.

Specimen must be received in Blood Bank

within 4 hours of collection

Sample must be walked to the Blood Bank, held

in an upright position, with little to no

movement of the tube.

SPECIMEN VOLUME: 2 FULL tubes MINIMUM VOLUME: 1 FULL tube

TEST AVAILABILITY: Seven days a week / 24 hours a day

TURNAROUND TIME: 24 hours

OTHER NAMES: VerifyNow, P2Y12 Inhibitor

METHODOLOGY:

CLINICAL USE: Evaluate platelet function

CPT: 85576

[PLTAGG] Platelet Aggregation Test

SPECIMEN REQUIRED: Whole blood TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Call Core Lab 405-271-8001 ext 37219 ext 37219

least 3 days before test is to be performed to to schedule; MUST BE HAND CARRIED and

Delivered in Core Lab before noon.

Immediately after drawing, invert tubes gently

3-4 times to prevent clotting

CANNOT BE TUBED TO OUMC. MUST BE HAND CARRIED

SPECIMEN VOLUME: 7 FULL tubes SPECIMEN VOLUME: 7 FULL tubes MINIMUM VOLUME: 5 FULL tubes TEST AVAILABILITY: Tuesday-Thursday

TURNAROUND TIME: 3 days

CLINICAL USE: Evaluate platelet function

CPT: 85576

[PMNREF] Body Fluid Polynuclear WBCs

[PNHFLOW] PNH BY FLOW CYTOMETRY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark Green (heparin) or Lavender (EDTA) SPECIAL HANDLING: Specimen must be received in laboratory by

1:30 pm, Monday-Friday only

Specimen must arrive at performing lab within

48 hours of collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: CD45, CD16, CD24, CD15, CD14, CD64, and FLAER

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 2-3 days METHODOLOGY: Flow Cytometry

REFLEX TEST INFORMATION: If positive, CD59 and Glycophorin A

CLINICAL USE: The following markers are utilized to test

neutrophils and/or monocytes: CD24, CD15, CD45, FLAER, CD64, CD14. If a PNH clone is identified, the following markers are used to test red blood

cells: glycophorin A, CD59. CPT: 88184; 88185 x 6

[PNPO] PYRIDOXAL PHOS DEPEND SEIZURES

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[POCCAPLACT] Lactic Acid, Venous

[POCCOM] Specimen Comment (Misc)

[POCCOMCHEM] Specimen Comment (Misc)

[POCCREA] POC CREATININE TEST

[POCGLUC] POC GLUCOSE TEST

[POCKET] Whole Blood Ketones Quantitative

SPECIMEN REQUIRED: Refrigerated serum or heparin plasma TUBE OR CONTAINER: Finger Stick/Heparanized Green Top

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 m

TEST INCLUDES:

TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: Negative METHODOLOGY: Precision Xtra

CLINICAL USE: Diagnose ketonemia, ketoacidosis resulting from

diabetes mellitus, alcoholism, stress, starvation, intestinal disorders including emesis, glycogen storage disease (von Gierke), infantile organic acidemias, and other metabolic disorders

CPT: 82009

[POCLYTES] POC ELECTROLYTE PANEL

[POCMODE] POC Blood Gas Vent Mode

[POCPT] PROTHROMBIN TIME - POC

[POLG] POLG GENE-MITOCHRONDRIAL

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Buccal swab

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Full gene sequencing

TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

REFERENCE RANGE: No mutation detected

METHODOLOGY: Polymerase Chain Reaction (PCR) CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81406

[POMPENZ] Pompe Disease

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must be received in lab by 1:30 pm

Monday-Thursday only; Specimen must be

shipped same day as collected SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 7-10 days

REFERENCE RANGE:

OTHER NAMES: Acid alpha-glucosidase deficiency METHODOLOGY: Flurometric Enzyme Assay

REFLEX TEST INFORMATION:

CPT: 82657

[POR] Plasma Total Porphyrins

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Green (Heparin)

SPECIAL HANDLING: Protect specimen from light

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: 0-15 nmol/L METHODOLOGY: Scanning Fluorometry

CLINICAL USE: Aid in diagnosis of hereditary coproporphyria,

variegate porphyria

CPT: 84311

[PORPHRAN] Urine Random Porphobilinogen

SPECIMEN REQUIRED: Light protected, frozen urine (random)

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: No preservative required unless ordered with

Delta ALA, then specimen must be acidified

with 0.5 mL 30% glacial acetic acid;

Protect specimen from light:

pH less than 6

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0-2.0 mg/L

METHODOLOGY: Chromatography/spectrophotometry CLINICAL USE: Detect porphyrias and porphyrinurias

CPT: 84110

[POSRPR] Rapid Plasma Reagin Titer

[PR3AB] Anti-Proteinase 3 (c-ANCA)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.6 ml MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 3.5 units/mL

OTHER NAMES: Antiproteinase 3 (PR3) antibodies METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Diagnosis and monitoring inflammatory activity in

primary systemic small vessel vasculitides

CPT: 86021

[PREALB] Prealbumin

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Sample should be removed from clot as soon as

possible and refrigerated SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Age dependent

OTHER NAMES: Transthyretin; Thyroxine-binding prealbumin (TBPA)

Trytophan-rich prealbumin

METHODOLOGY: Immunourbidimetric

CLINICAL USE: Evaluate protein malnutrition, total parenteral

nutrition and liver dysfunction

CPT: 84134

[PREGAB] Pregabalin (Lyrica) Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIMEN: VOLUME 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

OTHER NAMES: Lyrica

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[PREGNEN] Pregnenolone

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIAL HANDLING: Separate within 1 hour of collection

SPECIMEN VOLUME: 2.5 mL

MINIMUM VOLUME: 1.1 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days REFERENCE RANGE: Age-specific

METHODOLOGY: Radioimmunoassay (RIA) after column chromatography

CPT: 84140

[PREKAL] Prekallikrein Factor Activity

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 ml TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

REFERENCE RANGE: Normal: >49%

Mild Deficiency: 5 - 49% Severe Deficiency: < 5%

OTHER NAMES: Fletcher Factor METHODOLOGY: Clotting time assay

CPT: 85292

[PRETR] Chimerism Pre-Transplant Recipient

[PREV1679] X-LINKED MEGALOCORNEA 1(CHRDL1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

OTHER NAMES:

METHODOLOGY:

CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[PRF1] FAMILIAL HLH VIA PRF1 GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis type 2;

Perforin 1 (PRF1) gene

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[PROBNP] NT-Pro-B-Type Natriuretic Peptide

SPECIMEN REQUIRED: Plasma or serum

TUBE OR CONTAINER: Lt Green, Lavender, Red or Gold SPECIAL HANDLING: Stable 3 days at Room Temp

6 days at 2-8 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: < 75 years old: > 75 years old: METHODOLOGY: Sandwich

principle

CLINICAL USE: Support a diagnosis of congestive heart failure

(CHF) CPT: 83880

[PROBNPFLD] NT-Pro-B-Type Natriuretic Peptide

SPECIMEN REQUIRED: Frozen body fluid

TUBE OR CONTAINER: Sterile tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

METHODOLOGY: Electrochemiluminescent Immunoassay (ECLIA) CLINICAL USE: Support a diagnosis of congestive heart failure

(CHF) CPT: 83880

[PROCALC] Procalcitonin

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Green (Heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: < 0.50 ng/mL: Low risk for progression to

severe sepsis

METHODOLOGY: Chemiluminescent Microparticle Immunoassay (CMIA)

CLINICAL USE: Elevated values may be consistent with systemic

inflammatory response or localized bacterial

infection CPT: 84145

[PROCR] Activated Protein C Resistance

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.8 mL of PLASMA TEST AVAILABILITY: Daily

TURNAROUND TIME: 2-7 days

REFERENCE RANGE: > 2.0

OTHER NAMES: APC METHODOLOGY: Clot

CLINICAL USE: Resistance to APC is, to date, the most common

cause of inherited thrombophilia and is

demonstrated in 20-60% of patients with recurrent

venous thrombosis

CPT: 85307

[PROG] Progesterone Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Lt Green (heparin) or Gold/Red SPECIAL HANDLING: Stable for 24 hours at room temp

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.3 mL

PEDIATRIC TEST INFO: Order PEDPROGEST for pediatric testing

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Male: Not established

Female: Normal Menstruating Follicular: Luteal: 2.3 - 34.3

Postmenopausal: Pregnant Female:

1st tri: 4.1-239.6 2nd tri: 36.2-154.5 3rd tri: 45.0 - 395.3

METHODOLOGY: ECLIA

CLINICAL USE: Establish presence of a functioning corpus luteum

or luteal cell function; assess placental function

during pregnancy, ovarian function test

CPT: 84144

[PROGHPLC] Progesterone Level

ONLY FOR USE ON PATIENTS RECEIVING DHEA!

Collect

Serum Separator Tube (SST). Also acceptable: Plain Red, Pink

(K2EDTA), Plasma Separator Tube (PST), Green (Sodium Heparin),

or Green (Lithium Heparin).

Specimen Preparation

Transfer 1 mL serum or plasma to an ARUP Standard Transport

Tube. (Min: 0.3 mL)

Storage/Transport Temperature

Refrigerated. Also acceptable: Frozen.

Unacceptable Conditions

Grossly hemolyzed specimens.

Stability

After separation from cells: Ambient: Unacceptable;

Refrigerated: 1 week; Frozen: 6 months.

[PROINS] Proinsulin

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 9.4 pmol/L

METHODOLOGY: Enzyme immunoassay (EIA)

CPT: 84206

[PROLAC] Prolactin

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Lt Green (heparin) or Gold/Red SPECIAL HANDLING: Separate from cell promptly.

Stable 5 days at room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

PEDIATRIC TEST INFO: Order PEDPROLAC for pediatric testing

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Male: 4.1 - 28.4

Female: 1.9 - 46.9

METHODOLOGY: ECLIA

CLINICAL USE: Pituitary function test

CPT: 84146

[PROLEAD] PROTOPORPHYRIN & LEAD PROFILE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender (EDTA) will no longer be accepted

after 10/1/13

SPECIAL HANDLING: Please contact laboratory for correct tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Lead, blood; protoporphyrin, free erythrocyte;

and zinc protoporphyrin

TEST AVAILABILITY: Daily

METHODOLOGY: Lead: Atomic absorption spectrometry (AAS)

ZPP: Fluorometry

CLINICAL USE: Monitor lead exposure

CPT: 83655; 84202

[PROMETH] Promethazine (Phenergan) Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrer tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days REFERENCE RANGE: < 150 ng/mL

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 84022

[PROPGLY] Propylene Glycol Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.7 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days

METHODOLOGY: Gas Chromatography (GC)

CLINICAL USE: Overexposure/Poisoning determination

CPT: 84600

[PROSTE2U] Urine Prostaglandin E2

SPECIMEN REQUIRED: Urine at room temperature or frozen (24-hour

(collection)

TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Collect 24-hour urine in "P" container (no

preservative)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 400 - 620 ng/24 hours METHODOLOGY: Direct Radioimmunoassay

CPT: 84150

[PROSTF2] 11 beta-Prostaglandin F2 alpha

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender(EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 10 days REFERENCE RANGE: 80-240 pg/mL

METHODOLOGY: Direct Radioimmunoassay

CPT: 84150

[PROT] PROTOPORPHYRINS

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA), Tan (EDTA) or Lavender

(EDTA) microtainer for pediatrics

Royal Blue (EDTA) adults

Lavender (EDTA) will no longer be accepted

after 10/1/13 for for a specimen collected

by venipuncture (Lavender accepted for

capillary collection but not recommended)

SPECIAL HANDLING: Please contact laboratory for correct tube

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 0.2 mL

TEST INCLUDES: Zinc protoporphyrin

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: ZPP, blood: Adults: 0-36 g/dL; occupational

exposure: BEI (sampling time is after one

month's exposure):

METHODOLOGY: Fluorometry

CLINICAL USE: Monitor chronic industrial exposure to lead

CPT: 84202

[PROTAS] Body Fluid Total Protein

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate effusions; diagnose transudate versus

exudate CPT: 84157

[PROTCF] Protein C Activity

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Patient should avoid coumadin therapy for 3

weeks prior to test

Draw 2 FULL citrate tubes; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 2 full tubes

Testing specimen: 2 transport tubes with 1 ml

plasma each

MINIMUM VOLUME: 1 full tube

Testing specimen: 2 transport tubes with 0.5 ml

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 70-160%

OTHER NAMES: Protein C, Functional; Functional Protein C

METHODOLOGY: Clot

REFLEX TEST INFORMATION: Protein C antigen will be reflexed at

an additional charge, if activity is

below normal

CLINICAL USE: Aid in diagnosis of patients at risk of venous

thromboembolic disease

CPT: 85303

[PROTCSF] CSF Total Protein

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0-30 days: 22-135 mg/dL

> 1 month: 17- 50 mg/dL

METHODOLOGY: Turbidimetric

CLINICAL USE: A nonspecific but reliable indication of CNS

pathology such as meningitis, brain abscess, neoplastic disease, and multiple sclerosis

CPT: 84157

[PROTDIP] Urine Protein

[PROTFL] Body Fluid Total Protein

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Colorimetric

CPT: 84157

[PROTPC] Pericardial Fluid Total Protein

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate effusions; diagnose transudate versus

exudate CPT: 84157

[PROTPL] Pleural Fluid Total Protein

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate effusions; diagnose transudate versus

exudate CPT: 84157

[PROTPT] Peritoneal Fluid Total Protein

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate effusions; diagnose transudate versus

exudate CPT: 84157

[PROTR] Protriptyline Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days REFERENCE RANGE: 50-170 ng/mL

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic monitoring and toxicity assessment

CPT: 80299

[PROTRAN] Urine Random Total Protein

SPECIMEN REQUIRED: Refrigerated random urine TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: First morning specimen is preferred

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Turbidimetric

CPT: 84145

[PROTS] Free Protein S Antigen

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Patient should avoid coumadin therapy for 2

weeks & avoid heparin for 2 days prior to test Draw 2 FULL citrate tubes; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 2 full tubes

Testing specimen: 2 transport tubes with 1 ml

plasma each

MINIMUM VOLUME: 1 full tube

Testing specimen: 2 transport tubes with 0.5 ml

plasma each

TEST AVAILABILITY: Daily TURNAROUND TIME: 1-7 days REFERENCE RANGE: 65-150 %

METHODOLOGY: Clot

REFLEX TEST INFORMATION: When the free antigen result is below

normal, Protein S Antigen total & Protein S activity will be reflexed at

an additional charge

CLINICAL USE: Aid in diagnosis of patients at risk of venous

thromboembolic disease

CPT: 85306

[PROTSY] Synovial Fluid Total Protein

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate effusions; diagnose transudate versus

exudate CPT: 84157

[PRSS1] PANCREATITIS (PRSS1) SEQ

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404

[PSA] Prostate Specific Antigen Total

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (Li heparin) or Gold/Red SPECIAL HANDLING: Specimen Staiblity: 5 days-refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: MALE: 50-69 years: > or = 70 years: None Established

FEMALE: None Established

METHODOLOGY: Electrochemiluminescence Immunoassay

CLINICAL USE: Most sensitive marker for monitoring patients with

prostate cancer CPT: 84153

[PSAS] Prostate Specific Antigen Screen

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 0.0-4.0 ng/mL METHODOLOGY: Chemiluminescence

CLINICAL USE: Used in annual prostate screening

CPT: G0103

[PSEU] Pseudocholinesterase

SPECIMEN REQUIRED: Refrigerated plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must be centrifuged and separated immediately

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: 1000-3500 IU/L

METHODOLOGY: Spectrophotometry (Ellman) - kinetic

CLINICAL USE: Screen pre-operative patients for succinylcholine

(suxamethonium) anesthetic sensitivity, genetic

or secondary to insecticide exposure

CPT: 82480

[PTFRAG] Prothrombin Fragment 1.2

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 days REFERENCE RANGE: 0.4 - 1.8 nm/L

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Levels are elevated in patients with deep venous

thrombosis, pulmonary embolism, disseminated intravascular coagulation, septicemia, pre-

eclampsia, prothrombotic state, eclampsia & trauma

CPT: 83520

[PTH] PARATHYROID HORMONE (INTACT)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Allow specimen to clot at room temperature;

Separate and refrigerate within 8 hours of collection; Stable for 2 days refrigerated

Fasting specimen recommended

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

PEDIATRIC TEST INFO: Min: 1 full microtainer (1mL)

Opt: 2 full microtainers (2mL)

TEST INCLUDES: PTH and Calcium

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day REFERENCE RANGE: 5-44 pg/mL

OTHER NAMES: PTH Intact; PTH Whole Molecule

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Differential diagnosis of hypercalcemia

CPT: 83970

[PTHAB] Anti-Parathyroid Hormone Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect in a gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days REFERENCE RANGE: Negative

METHODOLOGY: Radiobinding Assay

CLINICAL USE: Useful in autoimmune disorders involving

parathyroid gland resulting in the production of

anti-PTH and hypoparathyroidism

CPT: 83519

[PTHFLD] Body Fluid Parathyroid Hormone

SPECIMEN REQUIRED: Frozen fine needle aspirate or body fluid

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Indicate source of specimen; specimen must be

clear, not viscous or bloody SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 Days

METHODOLOGY: Immunochemiluminometric assay (ICMA)

CLINICAL USE: Determine the presence of parathyroid hormone-

secreting cells near the parathyroid glands. The presence of large amounts of parathyroid hormone in nonparathyroid cells may indicate metastasis of

parathyroid tumor cells to other sites.

CPT: 83970

[PTT] Activated Partial Thromboplast Time

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube MUST be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

It is essential to know if patient is on

coumadin

Clotted specimens will be rejected

PT, PTT & Fibringen may be performed from

one full tube

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube

Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 hours

REFERENCE RANGE: 25.0-38.0 seconds

Anticoagulants including vitamin K antagonists, unfractionated and low molecular weight heparins, direct oral anticoagulants, and direct thrombin inhibitors can interfere with routine and specialized coagulation testing. Great care should be taken in interpretation of results when patients are anticoagulated during testing.

OTHER NAMES: aPTT-LA; aPTT, Lupus-Sensitive; Lupus-Sensitive

aPTT

METHODOLOGY: Photo-optical clot detection

CLINICAL USE: Evaluation of intrinsic coagulation system;

monitor heparin therapy

CPT: 85730

[PWS] PRADER-WILLI SYNDROME

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 weeks

METHODOLOGY: Polymerase Chain Reaction

CPT: 81331

[PYR5CSF] CSF Pyridoxine 5 Phosphate

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Sterile CSF tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks METHODOLOGY: HPLC/fluorescence

CLINICAL USE: Useful for diagnosis of disorders leading to low

CSF levels of this cofactor

CPT: 84207

[PYRU] Pyruvic Acid

SPECIMEN REQUIRED: Whole blood on ice

TUBE OR CONTAINER: Gray (Sodium fluoride) on ice

SPECIAL HANDLING: Draw blood into chilled gray top tube from a

fasting and resting patient; special

processing to be performed by laboratory SPECIMEN VOLUME: 5 mL supernatant MINIMUM VOLUME: 0.2 mL supernatant

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: 0.3-0.7 mg/dL

OTHER NAMES: Pyruvate

METHODOLOGY: Pyruvate-lactate spectrophotometry CLINICAL USE: Assess O2 derivation; provide index of the

severity of circulatory failure

CPT: 84210

[PYRUK] Erythrocytes Pyruvate Kinase Assay

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA), Dark Green (heparin) or

Yellow (ACD)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: 9.0 - 22.0 U/g Hgb

METHODOLOGY: Enzymatic

CPT: 84220

[QFEV] Q FEVER IgG TITER

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL

TEST INCLUDES: Titer of both Phase I and Phase II responses of

IgG antibody

TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: < 1:16

OTHER NAMES: Coxiella burnetii Antibodies

METHODOLOGY: Indirect fluorescent antibody (IFA)

CLINICAL USE: Aid in the differential diagnosis for Q fever

CPT: 86638

[QUET] Quetiapine (Seroquel) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature; Freeze

after 3 days

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days

REFERENCE RANGE: 100 - 1000 ng/mL

METHODOLOGY: High Performance Liquid Chromatography with

Ultraviolet Detection; (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[QUIN] Quinidine Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Therapeutic: 2.0 - 5.0 ug/mL

Potentially toxic: > 5.0 ug/mL METHODOLOGY: Immunoassay

CLINICAL USE: Therapeutic monitoring and toxicity assessment

CPT: 80194

[RA] Rheumatoid Factor Screen

SPECIMEN REQUIRED: Serum or plasma

TUBE OR CONTAINER: Red, Gold, Lt Green (heparin)

CAUSE FOR REJECTION: Specimens other than Serum or Hep. Plasma

Do not use for Body Fluid testing.

SPECIAL HANDLING: Stable for 24 hours at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Negative: < 11.0 IU/mL

OTHER NAMES: Rheumatoid Arthritis Factor; RF Titer

METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Differential diagnosis and prognosis of rheumatoid

arthritis and related entities

CPT: 86431

[RAB27A] RAB27A GENE (FHL) GRISCELLI

SPECIMEN REQUIRED: Room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Griscelli Syndrome via RAB27A gene METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[RABAB] Rabies Virus Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Specimen will be rejected if grossly

hemolyzed or lipemic

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

METHODOLOGY: Rapid Fluorescent Focus Inhibition Test (RFFIT)

CPT: 86382

[RAFL] Body Fluid Rheumatoid Factor Screen

SPECIMEN REQUIRED: Refrigerated or frozen body fluid

TUBE OR CONTAINER: Plastic tube

SPECIAL HANDLING: Indicate source of fluid; Unable to perform

on breast milk or salivary fluid SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: None established METHODOLOGY: Quantitative Turbidimetric

CPT: 86431

[RAJI] Immune Complex Detection -Raji Cell

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Freeze at -70 C or store on dry ice within six

hours of collection. Specimen is stable for 14 days if stored at -70 C. Storage of specimens

at -20 C will yield erroneous results.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Normal < 15.1 ug Eq/mL METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Detect circulating immune complexes

CPT: 86332

[RAM] Rheumatoid Factor IgM Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: Negative: METHODOLOGY: Enzyme immunoassay (EIA)

CPT: 86431

[RASTASCARIS] Ascaris Allergen IgE Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Quantitative allergen-specific IgE test

CPT: 86003

[RASTASP] Aspergillus fumigatus Allergen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily REFERENCE RANGE: Negative

Methodology: Quantitative allergen-specific IgE test

CPT: 86003

[RASTBAN] Banana Allergen (RAST)

[RASTBEEF] Beef Allergen (RAST)

[RASTCAND] Candida albicans Allergen IgE Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily REFERENCE RANGE: Negative

Methodology: Quantitative allergen-specific IgE test

CPT: 86003

[RASTCHOC] Chocolate Allergen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE:

METHODOLOGY: Quantitative allergen-specific IgE test

CPT: 86003

[RASTGLUT] Gluten Allergen

[RASTLAT] Latex Allergen

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 days REFERENCE RANGE: Negative

METHODOLOGY: Quantitative allergen-specific IgE test

CLINICAL USE: Detect sensitivity to latex

CPT: 86003

[RASTMILK] Cow's Milk Allergen

[RASTORAN] Orange Allergen

[RASTPENICILG] Penicillin-G Allergen

[RASTPENICILV] Penicillin-V Allergen

[RASTPORK] Pork Allergen (RAST)

[RASTSOY] Soybean Allergen IgE Antibody

[RASTSTRAW] Strawberry Allergen (RAST)

[RASTTANG] Tangerine Allergen

[RASTTILAPIA] Tilapia Allergen IgE Antibody

[RASTTOM] RAST TOMATO

[RASY] Synovial Fluid Rheumatoid Factor

SPECIMEN REQUIRED: Refrigerated body fluid TUBE OR CONTAINER: Clean plastic tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 days

REFERENCE RANGE: Negative: < 1:10 METHODOLOGY: Hemagglutination

CPT: 86431

[RB1] RETINOBLASTOMA (RB1) GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 weeks

OTHER NAMES: Retinoblastoma via the RB1 gene METHODOLOGY: Next-generation Sequencing (NGS)

CPT: 81406

[RBC BAND 3] RBC Band 3 Protein Reduction

SPECIMEN REQUIRED: Lavender (EDTA) or green (sodium or lithium

heparin. Include a Wright stained slide.

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Transport 4mL refrigerated whole blood in the

original container. Specimens must be analyzed

within seven days of collection. SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Sunday-Saturday

TURNAROUND TIME: 1-3 Days REFERENCE RANGE: Normal

METHODOLOGY: Qualitative Flow Cytometry

CLINICAL USE: This test can be used to confirm the syspected

CPT: 88184

[RBCGEN] RED CELL GENOTYPING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) SPECIMEN VOLUME: 5 mL (whole blood) MINIMUM VOLUME: 3 mL (whole blood) TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 4-8 days

METHODOLOGY: Polymerase chain reaction (PCR)-hybridization

probe analysis CPT: 81479

[RBCPLAS] RBC Plasmalogens

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.5 mL METHODOLOGY: Chromatography

CPT: 82542

[RBPJ] ADAMS-OLIVER TYPE 3 (RBPJ)

SPECIMEN REQUIRED: Whole blood room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[RCD] REVERSIBLE COX DEFICIENCY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Analysis of two mitochondrial mutations

associated with Reversible Cox Deficiency:

m.14674T>C and m.14674T>G TEST AVAILABILITY: Daily

TURNAROUND TIME: 1 week

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[RCDP1] RHIZOMELIC CHONDRODYSPL (PEX7)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Rhizomelic Chondrodysplasia Punctata type 1 via

PEX7 gene sequencing

METHODOLOGY: Targeted Capture followed by Massively Parallel

Sequencing CPT: 81479

[RCDP2] RHIZOMELIC CHONDRODYSPL(GNPAT)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Rhizomelic Chondrodysplasia Punctata type 2 via

GNPAT gene sequencing

METHODOLOGY: Targeted Capture followed by Massively Parallel

Sequencing CPT: 81479

[RCDP3] RHIZOMELIC CHONDRODYSPL(AGPS)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Rhizomelic Chondrodysplasia Punctata type 3 via

AGPS gene sequencing

METHODOLOGY: Targeted Capture followed by Massively Parallel

Sequencing CPT: 81479

[RECOVAB] ANTI-RECOVERIN AB (CAR)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Specimen must be received in Laboratory by

1:30 pm, Monday through Friday only

SPEČIMEN VOLUME: 5 ml MINIMUM VOLUME: 2 ml TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 7-14 days REFERENCE RANGE: Negative

OTHER NAMES: Recombx CAR (Anti-Recoverin) Antibody Test;

Cancer Associated Retinopathy METHODOLOGY: Western Blot

CPT: 84182

[REDUCSTL] Stool Reducing Substances

SPECIMEN REQUIRED: Fresh random stool (Frozen) TUBE OR CONTAINER: Plastic container with tight seal

SPECIMEN VOLUME: 5 gram MINIMUM VOLUME: 1 gram TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Negative

METHODOLOGY: Semi-quantitative Colorimetry

CLINICAL USE: Detect deficiency of intestinal border enzymes

CPT: 84377

[REFSHL] REFERRED TO STATE HEALTH LAB

[RENINA] Renin Activity

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Patient's posture and time of collection

should be noted Freeze immediately

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

PEDIATRIC TEST INFO: Order PEDREN for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Age specific

OTHER NAMES: Plasma Renin Activity (PRA); PRA

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Aid in differential diagnosis of individuals with

hypertension CPT: 84244

[REPT] Reptilase-R Time

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

METHODOLOGY: Rate of fibrin clot formation after the addition

of reptilase

CLINICAL USE: Diagnosis of fibrinogen deficiency, both

congenital and acquired

CPT: 85635

[RETAB] Anti-Reticulin Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: < 1:40

METHODOLOGY: Indirect Fluorescent Antibody (IFA) CLINICAL USE: Detect antibodies associated with gluten

enteropathies such as celiac disease

CPT: 86256

[RETBP] Retinol-Binding Protein

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red, Gold or Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: 18 years and older: 1.4-5.7 mg/dL

OTHER NAMES: RBP4

METHODOLOGY: Immunologic

CLINICAL USE: Reflects the synthesis capacity of the liver and

may indicate early malnutrition, acute and chronic hepatic disease, advanced chronic renal

insufficiency, and cystic fibrosis

CPT: 83883

[RETPTC] RET-PTC1/PTC3 TRANSLOCATION

SPECIMEN REQUIRED: Paraffin-embedded tisue or slides at room

temperature or refrigerated (protect from

excessive heat

TUBE OR CONTAINER: Slides or tissue block

SPECIMEN VOLUME: 5 slides MINIMUM VOLUME: 3 slides TURNAROUND TIME: 10-14 days

OTHER NAMES: RET-CCDC6 and RET-NCOA4 (RET-PTC1 and RET-PTC3)

Translocations Detection by PCR

METHODOLOGY: Polymerase chain reaction (PCR)

CLINICAL USE: Detects RET-CCDC6 and RET-NCOA4 gene fusions

associated with thyroid cancer

CPT: 81479

[RFP] RENAL FUNCTION PANEL

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.8 mL

TEST INCLUDES: Sodium, potassium, chloride, CO2, BUN, glucose,

creatinine, albumin, calcium, phosphorus

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: See individual test METHODOLOGY: See individual tests

CPT: 80069

[RHABDO] RHABDOMYOLYSIS PANEL NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequencing of 29 genes: ACADL, ACADM, ACADVL,

ACAD9, AGL, AMPD1, C10orf2, CPT1B, CPT2, ETFA, ETFB, GAA, GYS1, HADHA, HADHB, LPIN1, OPA1, OPA3, PFKM, PGAM2, PGM1, PHKA1, POLG, POLG2,

PYGM, RRM2B, SUCLA2, TK2, TYMP

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

OTHER NAMES: Myopathy/Rhabdomyolysis Panel METHODOLOGY: Next Generation Sequencing (NGS) CPT: 81401 x 2; 81404 x 2; 81405 x 2; 81406 x 5; 81407 x 2;

81479 x 16

[RIBCSF] Ribosomal P Protein Antibody

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

METHODOLOGY: Enzyme immunoassay (EIA)

CPT: 83516

[RIBPAB] Ribosomal P Protein Antibody

SPECIMEN REQUIRED: Serum at room temperature (can be stored for

up to 7 days refrigerated)

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

METHODOLGOY: Multiplex flow immunoassay

CPT: 86235

[RICKDNA] Rickettsia rickettsii DNA (PCR)

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.7 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Not Detected

OTHER NAMES: Rickettsia rickettsii DNA by PCR

METHODOLOGY: Real-time Polymerase Chain Reaction (PCR)

CLINICAL USE: Aid in the diagnosis of infection due to

Rickettsia CPT: 87798

[RIF] Rifampin Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red-no gel or Dark Green (heparin)

SPECIAL HANLDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

METHODOLOGY: High-pressure liquid chromatography with

Ultraviolet Detection; (HPLC-UV)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[RIFAB] RIFABUTIN (MYCOBUTIN) LEVEL

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

Ship Monday-Thursday only SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Sunday-Thursday

TURNAROUND TIME: 3-9 days OTHER NAMES: Mycobutin

METHODOLOGY: High performance Liquid chromatography (HPLC)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[RITON] RITONAVIR (NORVIR) LEVEL

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

METHODOLOGY: High performance liquid chromatography (HPLC)

CPT: 82542

[RNAPOLY123] RNA Polymerase I,II,III IgG Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

ORDERING MODULE: LAB SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Immunoprecipitation

CLINICAL USE: Evaluating patients suspected of having systemic

sclerosis, when used in conjunction with centromere and Scl70 antibodies or provides diagnostic and prognostic information in patients

with systemic sclerosis

CPT: 83516

[RNAPOLYG] RNA Polymerase III IgG Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Gold or Red

ORDERING MODULE: LAB SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA) CLINICAL USE: Evaluating patients suspected of having systemic

sclerosis, when used in conjunction with centromere and Scl70 antibodies or provides diagnostic and prognostic information in patients with systemic sclerosis

CPT: 83516

[ROCKYG] Rickettsia IgG Ab (Rocky Mt Fever)

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Negative: Present/past: 1:16-1:64

Recent: >= 1:128

OTHER NAMES: Rickettsia rickettsii

METHODOLOGY: Enzyme immunoassay (EIA)

REFLEX TEST INFORMATION: A positive IgG will reflex a titer by

Indirect fluorescent antibody (IFA) at

no additional charge

CLINICAL USE: Establish the diagnosis of infection due to

Rickettsia in the spotted fever group or in the

typhus group CPT: 86757

[ROCKYGM] AB ROCKY MT FEVER IGG/IGM

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.8 mL

TEST INCLUDES: IgG and IgM antibodies

TURNAROUND TIME: 4 days

REFERENCE RANGE: IgG: Negative: < 1:16

IgM: Negative: < 9 units

OTHER NAMES: Rickettsia rickettsii

METHODOLOGY: Enzyme immunoassay (EIA)

REFLEX TEST INFORMATION: A positive IgG will reflex a titer by

Indirect fluorescent antibody (IFA) at

no additional charge

CLINICAL USE: Establish the diagnosis of infection due to

Rickettsia in the spotted fever group

CPT: 86757 x 2

[RPE65] LCA2/RP20 VIA RPE65 GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: DNA sequencing of all 14 coding exons and splice

site of the RPE65 gene

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Leber Congenital Amaurosis 2 (LCA2) and Retinitis

Pigmentosa 20 (RP20) via RPE65 gene

METHODOLOGY: Bi-directional sequencing

CPT: 81406

[RPPANEL] RETINITIS PIGMENTOSA GENES

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Comprehensive sequencing and Deletion/Duplication

Panel (> 60 genes included)
TEST AVAILABILITY: Daily
TURNAROUND TIME: 12 weeks

METHODOLOGY: Next Generation Sequencing (NGS)

CPT: 81228; 81406

[RPR] Rapid Plasma Reagin

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red, Green (heparin) or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Nonreactive

OTHER NAMES: Nontreponemal Test; RPR; STS; Syphilis Serology

METHODOLOGY: Charcoal Flocculation

REFLEX TEST INFORMATION: Specimens with a reactive response

will reflex a FTA Ab test at an

additional charge

CLINICAL USE: Test for syphilis

CPT: 86592

[RSVAB] Respiratory Syncytial Virus Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

REFERENCE RANGE: Negative: OTHER NAMES: Respiratory Syncytial Virus

antibody

METHODOLOGY: Complement fixation (CF)

CLINICAL USE: Aid in establishing the diagnosis of respiratory

syncytial virus infection

CPT: 86756

[RUBEAB] Rubeola (Measles) IgG Antibody

SPECIMEN REQUIRED: Serum

TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: Refrigerate at 2-8 degrees C for up to 8 days

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

PEDIATRIC TEST INFO: 0.5 ml; 1 Gold microtainer

TEST AVAILABILITY:

TURNAROUND TIME: 1-5 days

REFERENCE RANGE: NEGATIVE EQUIVOCAL 0.50-0.69

POSITIVE > 0.69

OTHER NAMES: Measles antibodies

METHODOLOGY: ELISA

CLINICAL USE: Determine immune status or aid in diagnosis of

recent infection

CPT: 86765

[RUBELLAIGG] Rubella IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red or Light Green (heparin)

SPECIAL HANDLING: Separate from cells promptly.

Stable 7 days at room temp SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative: < 10

Positive: >/= 10.0

OTHER NAMES: German Measles Antibody

METHODOLOGY: Electrochemiluminescence Immunoassay CLINICAL USE: Recommended for immune status determination

CPT: 86762

[RUBEM] Rubeola (Measles) IgM Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Negative: Borderline: 0.80 - 1.20 AU

Positive: >1.20 AU

OTHER NAMES: Measles antibody

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Demonstrate acute infection with measles virus;

differential diagnosis of a pregnant female

exposed to or presenting with a rash

CPT: 86765

[RUBGCSF] CSF Rubella IgG Antibody

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 5 IU/mL or less: Negative

5-9 IU/mL: Equivocal

10 IU/mL or greater: Positive

OTHER NAMES: German Measles Antibody

METHODOLOGY: Chemiluminescent Immunoassay

CPT: 86317

[RUBMAB] Rubella IgM Antibody

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: Negative: < 20.0 AU/mL

Equivocal: 20.0-24.9 AU/mL Positive: > 24.9 AU/mL

OTHER NAMES: German Measles Antibody

METHODOLOGY: Chemiluminescent immunoassay (CLIA)

CPT: 86762

[RUBMCSF] CSF Rubella IgM Antibody

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 0.89 IV or less: Negative

0.90-1.09 IV: Equivocal 1.10 IV or greater: Positive

OTHER NAMES: German Measles Antibody

METHODOLOGY: Chemiluminescent Immunoassay

CPT: 86317

[RUBTAYSEQ] RUBINSTEIN-TAYBI SEQUENCING

SPECIMEN REQUIRED: Whole blood Fibroblasts or amniotic fluid at

room temperature

TUBE OR CONTAINER: Lavender (EDTA), T-25 flasks or sterile

container

SPECIMEN VOLUME: 5 mL (whole blood)

2 flasks

40 mL (amniotic fluid)

MINIMUM VOLUME: 2 mL (whole blood)

1 flask

30 mL (amniotic fluid)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[RUFIN] Rufinamide Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark Green (heparin)

SPECIAL HANLDLING: Do NOT collect specimen in gel barrier tube

Separate within two hours of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days

REFERENCE RANGE: Expected plasma concentrations in patients

taking recommended daily dosages:

up to 60.0 g/mL

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[S100B] S-100B ACCUQUANT

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

REFERENCE RANGE: 0.00 - 0.12 ug/L

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA) CLINICAL USE: Useful for prognosis and treatment monitoring of

patients diagnosed with malignant melanoma

CPT: 86316

[SAL] Salicylates Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green(heparin), Red or Gold

SPECIAL HANDLING: Stable 14 days at 2-8 degrees

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 44-220 ug/mL

Potentially toxic: > 220 ug/mL

OTHER NAMES: Aspirin; Salicylic Acid

METHODOLOGY: Enzymatic

CLINICAL USE: Monitor therapeutic drug level, evaluate toxicity

CPT: 80329

[SALCORT] Saliva Cortisol

SPECIMEN REQUIRED: Fresh frozen saliva

TUBE OR CONTAINER: Sterile tube #see SEE SPECIAL HANDLING

SPECIAL HANDLING: Special collection kits available. Please

contact laboratory

SPECIMEN VOLUME: 1 mL or swab

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 days

METHODOLOGY: High-pressure liquid chromatography (HPLC)/tandem

mass spectrometry (LC/MS/MS)

CPT: 82533

[SANAFIB] Sanfilippo Syndrome Type A Interp

SPECIMEN REQUIRED: Fibroblasts at room temperature

TUBE OR CONTAINER: T25 flasks SPECIMEN VOLUME: 2 T25 flasks

TEST AVAILABILITY: Daily

OTHER NAMES: Sanfilippo Syndrome type A, Heparin sulfamidase

activity

METHODOLOGY: Enzyme activity

CPT: 82658

[SANDFIB] Sanfilippo Syndrome Type D Interp

SPECIMEN REQUIRED: Fibroblasts at room temperature

TUBE OR CONTAINER: T25 flasks SPECIMEN VOLUME: 2 T25 flasks TEST AVAILABILITY: Daily

OTHER NAMES: Sanfilippo Syndrome type D, N-acetylglucosamine

6-sulfatase

METHODOLOGY: Enzyme activity

CPT: 82657

[SAP] Slam Associated Protein (SAP)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (heparin)

SPECIAL HANDLING: Must arrive in lab by 1:30 pm Monday-Thursday

only; Must be shipped same day as collected

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

METHODOLOGY: Flow Cytometry

CPT: 88184

[SCHISTAB] Schistosoma IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONATINER: Red, Gold, Green(heparin) or Lavender(EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days REFERENCE RANGE: < 1.00

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Detection of infection caused by Schistosoma

species CPT: 86682

[SCLERAB] Scl-70 (Scleroderma) Antibody

SPECIMEN REQUIRED: Room temperature serum or plasma

TUBE OR CONTAINER: Red, Gold, Lavender (EDTA) or Green (heparin)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

(testing)

TEST AVAILABILITY: Daily

TURNAROUND TIME: 6 Days REFERENCE RANGE: 0.0 - 0.9 AI

OTHER NAMES: Antiscleroderma-70; SCL-70 METHODOLOGY: Multiplex bead flow cytometry CLINICAL USE: Differential diagnosis of scleroderma

(progressive systemic sclerosis)

CPT: 86235

[SDSHORT] SKELETAL DYSPL & SHORT STATURE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Gene sequencing of B3GALT6, CANT1, CHST3, FLNB,

IMPAD1, SLC26A2, XYLT1 TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Next Generation sequencing (NextGen)

CPT: 81479 x 7

[SEDWES] Sedimentation Rate, Westergren

SPECIMEN REQUIRED: Room temperature or refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Room temperature samples are acceptable for

testing up to 6 hours; Refrigerated samples are acceptable for testing up to 12 hours

SPECIMEN VOLUME: 3 mL

MINIMUM VOLUME: 0.1 mL Pediatric; 1.0 mL Adult

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 hours

REFERENCE RANGE: 0-50 years: Female: 0 - 20 mm/hr

Male: 0 - 15 mm/hr

51 years +: Female: 0 - 30 mm/hr

Male: 0 - 20 mm/hr

OTHER NAMES: Erythrocyte Sedimentation Rate; ESR; Westergren

Sedimentation Rate

METHODOLOGY: RBC sedimentation rate

CLINICAL USE: Evaluate nonspecific activity of infections,

inflammatory states, autoimmune disorders, and

plasma cell dyscrasias

CPT: 85651

[SEL] Selenium Level

SPECIMEN REQUIRED: Whole blood at room temperature (submit

original unopened tube

TUBE OR CONTAINER: Royal Blue (EDTA) Lavender will temporarily be accepted due

to royal blue tube shortage, but result may

report with a disclaimer.

SPECIAL HANDLING: Please contact laboratory for correct tube;

Submit original unopened tube SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: 79-326 ug/L METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor selenium deficiency and occupational

exposure CPT: 84255

[SENS] Sensitivity Testing Only

[SERO] Serotonin

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Serum must be separated within 30 minutes

of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1.0 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Male: 21-321 ng/mL

Female: 0-420 ng/mL

METHODOLOGY: High-pressure liquid chromatography (HPLC) with

electrochemical (EC) detection

CLINICAL USE: Diagnose carcinoid syndrome

CPT: 84260

[SERTM] Urine Serotonin

SPECIMEN REQUIRED: Frozen urine (24 hour)

TUBE OR CONTAINER: Urine tube

SPECIAL HANDLING: Refrigerate specimen during collection; Add

50 mL of 50% acetic acid at start of

collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: METHODOLOGY: Liquid chromatography-Tandem Mass

Spectrometry (LC-MS/MS)

CLINICAL USE: Aid in diagnosis of some carcinoid tumors

CPT: 84260

[SERVDRLQL] VDRL

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Nonreactive METHODOLOGY: Flocculation

CLINICAL USE: Screen for syphilis; useful in assessing adequacy

of treatment. Biologic false-positives are common

in a variety of other infections or rheumatic diseases, thus more specific T. pallidum tests

are recommended for confirmation

CPT: 86592

[SEZFLOW] Sezary Cell

SPECIMEN REQUIRED: Whole Blood

TUBE OR CONTAINER: Preferred: Yellow top (ACD)

Acceptable: EDTA, Heparin SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Specimens are processed MOnday through

Sunday and reported Monday through Saturday

TURNAROUND TIME: 1-3 days

METHODOLOGY: Immunophenotyping CPT: 88184; 88185 per each additional marker

[SGFL] Body Fluid Specific Gravity

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Refractometry

CPT: 84135

[SGSY] Synovial Fluid Specific Gravity

SPECIMEN REQUIRED: Refrigerated synovial fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Refractometry

CPT: 84135

[SGUA] Urine Specific Gravity

SPECIMEN REQUIRED: Clean catch random urine TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 hours REFERENCE RANGE: 1.007-1.030 METHODOLOGY: Refractometry

CLINICAL USE: Evaluate renal concentrating power; hydration

status

CPT: 81003

[SHBG] Sex Hormone Binding Globulin

SPECIMEN REQUIRED: Refrigerated or frozen serum/plasma

TUBE OR CONTAINER: Gold, Red or Lt Green

SPECIAL HANDLING: Specimen stability: 5 days - room temp

7 days - refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age specific

OTHER NAMES: SHBG; Testosterone Binding Globulin (TeBG)

METHODOLOGY: ECLIA

CLINICAL USE: Decreased levels of SHBG are frequently seen in

hirsutism, virilization, obese postmenopausal women, and in women with diffuse hair loss Increased levels may be present in cases of hyperthyroidism, testicular feminization, cirrhosis, male hypogonadism, pregnancy, women using oral

contraceptives, and prepubertal children.

CPT: 84270

[SIALCSF] CSF Sialic Acid

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Transfer tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

CPT: 84275

[SIALU] Urine Sialic Acid

SPECIMEN REQUIRED: Frozen Urine (random)

TUBE OR CONTAINER: Urine container

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 12 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 21 days

METHODOLOGY:

CLINICAL USE: To rule out sialic acid storage disorder

CPT: 84275

[SICKSC] Sickle Cell Screen

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 hours REFERENCE RANGE: Negative

OTHER NAMES: Hemoglobin S; Hgb Solubility; Sickle Cell

Preparation; Sickle Cell Solubility Test; Sickle

Cell Test: Sickledex

CLINICAL USE: Qualitative determination of presence of

hemoglobin S; detect sickling hemoglobins;

evaluate hemolytic anemia

CPT: 85660

[SILV] Silver

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Royal Blue (EDTA)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(ICP-MS)

CLINICAL USE: Monitor exposure to silver

CPT: 83018

[SIRO] Sirolimus Level

SPECIMEN REQUIRED: Refrigerated or room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Trough: 30 minutes to 1 hour before the next

oral dose

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.1 mL TURNAROUND TIME: Daily

REFERENCE RANGE: 8.3 - 26.3 ng/mL OTHER NAMES: Rapamune; Rapamycin

METHODOLOGY: Abbott Chemiluminescent microparticle immunoassay

(CMIA)

CLINICAL USE: Monitor immunosuppressive therapy following organ

transplant CPT: 80195

[SJA] SJOGRENS SYNDROME PROFILE

SPECIMEN REQUIRED: Room temperature serum

TUBE OR CONTAINER: Red, Gold, or Lavender (EDTA)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

(testing)

TEST INCLUDES: IgG antibody to SS-A (anti-Ro) and SS-B (anti-La)

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.0 - 0.9 AI

OTHER NAMES: Anti-La & Anti-Ro antibodies; anti-SSA/anti-SSB

antibodies

METHODOLOGY: Flow Cytometry

CLINICAL USE: Aid in diagnosis of Sjogren's syndrome

(especially with vasculitis) and lupus patients

with Sjogren's overlap syndrome

CPT: 86235 x 2

[SKELDYS] SKELETAL DYSPLASIA NGS PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequencing of 161 genes that may be associated

with skeletal dysplasia

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Next Generation sequencing (NextGen) CPT: 81401 x 3; 81404; 81405 x 3; 81406 x 4; 81407; 81408 x4

81479

[SKI] SHPRINTZEN-GOLDBERG VIA SKI

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Shprintzen-Goldberg syndrome (SGS) via SKI gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[SKINAB] Anti-ICS (Pemphigus) Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: Negative: METHODOLOGY: Indirect fluorescent antibody

(IFA)

CLINICAL USE: Detect the presence of circulating pemphigus and

bullous pemphigoid anti-bodies in sera

CPT: 86256

[SLAG] Soluble Liver Antigen (SLA)

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-9 days

REFERENCE RANGE: Negative: 0.0- 20.0 units METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in diagnosis of autoimmune hepatitis (AIH)

CPT: 83516

[SMAC] SOLUBLE MEMB ATTACK COMPLEX

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 month REFERENCE RANGE: < 0.3 mg/L

METHODOLOGY: ELISA

REFLEX TEST INFORMATION:

CLINICAL USE: Screening is appropriate for patient with

biopsy-proved Dense Deposit Disease (DDD)

aka Membranoproliferative Glomerulonephritis Type

II, MPGNII CPT: 83516

[SMAD4] JUVENILE POLYPOSIS (SMAD4)

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks REFERENCE RANGE: Negative

METHODOLOGY: Polymerase Chain Reaction (PCR)/Sequencing

CPT: 81406

[SMADNA] SPINAL MUSCULAR ATROPHY DNA

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

REFERENCE RANGE: No mutation detected

METHODOLOGY: Polymerase Chain Reaction (PCR), Enzyme digestion-

Deletion/Duplication analysis exon 7

CLINICAL USE: Confirmation of diagnosis; prenatal testing

CPT: 81329

[SMC1A] SMC1A-CORNELIA de LANGE SYNDR

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polyermase Chain Reaction (PCR) and Bi-directional

sequencing CPT: 81479

[SMTHAB] Anti-Smooth Muscle Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 Days

REFERENCE RANGE: Negative: 0-19

Weak positive: 20-30

Moderate to strong positive: >30

OTHER NAMES: SMA; F-actin antibody

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CLINICAL USE: Aid in the diagnosis of liver disease

CPT: 83516

[SOMAC] Somatomedin-C

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing

PEDIATRIC TEST INFO: Order PEDIGF1 for pediatric testing to be

performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 7 days REFERENCE RANGE: Age specific

OTHER NAMES: IGF-1; Somatomedin-C, Sulfation Factor METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Assist in the assessment of growth disorders

CPT: 84305

[SOMAT] Somatostatin Level

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Pre-chill tube before collecting specimen

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days METHODOLOGY: Extraction, Radioimmunoassay

CPT: 84307

[SOT] Sotalol Level

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-9 days

REFERENCE RANGE: 500 - 4000 ng/mL

OTHER NAMES: Betapace; Sorine

METHODOLOGY: High Performance Liquid Chromatography with

Fluorescence Detection (HPLC-FL)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[SPERMABS] Anti-Sperm Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate from cells within 45 minutes of

collection

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME: REFERENCE RANGE:

METHODOLOGY: Enzyme-linked immunoassay (ELISA)

CPT: 89325

[SPHINGO] Neimann-Pick Disease

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Yellow (ACD)

SPECIAL HANDLING: Must be received at referring laboratory

within 48 hours of collection; Ship Monday

through Thursday only

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 7 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2 - 10 days

REFERENCE RANGE: 30 - 120 pmol/min/mg protein

METHODOLOGY: CLINICAL USE: CPT: 82658

[SPINK1] PANCREATITIS (SPINK1) SEQ

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404

[SPOR] Sporothrix Antibodies

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Negative

METHODOLOGY: Latex Agglutination (LA)

CPT: 86671

[SPORCSF] Sporothrix Antibodies

SPECIMEN REQUIRED: Refrigerated CSF TUBE OR CONTAINER: Transfer tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days REFERENCE RANGE: Negative METHODOLOGY: Latex Agglutination

CPT: 86671

[SPRED1DD] LEGIUS (SPRED1) DEL/DUP

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 14 days

METHODOLOGY: Multiplex Ligation-dependent Probe Amplification

CPT: 81479

[SRNS-FSGS] SRNS/FSGS NEXTGEN PANEL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: Sequencing of 27 genes; ACTN4, ADCK4, ARHGAP24,

ARHGDIA, CD2AP, CFH, COQ2, COQ6, CUBN, DGKE, INF2, ITGA3, ITGB4, LAMB2, LMX1B, MEFV, MYO1E, NEIL1, NPHS1, NPHS2, PDSS2, PLCE1, PTPRO, SCARB2,

SMARCAL1, TRPC6, WT1 TEST AVAILABILITY: Daily TURNAROUND TIME: 12 weeks OTHER NAMES: Steroid-resistant nephrotic syndrome (SRNS)/Focal

segmental glomerulosclerosis (FSGS) by NEXTGEN

sequencing (NGS)

METHODOLOGY: NextGen Sequencing

CPT: 81404; 81405; 81406; 81407

[SRS] RUSSELL-SILVER SYNDROME (H19)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Ship within 5 days of collection

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks

OTHER NAMES: Beckwith-Wiedemann Syndrome - H19 methylation METHODOLOGY: Quantitative methylation sensitive PCR (Q-MSP)

CPT: 81401

81401; 81402 (SRS + UPD7)

[SsGEN] S/s RED CELL AG GENOTYPE

SPECIMEN REQUIRED: Whole blood from mother & father and

amniotic fluid at room temperature

TUBE OR CONTAINER: Lavender (EDTA) and sterile container

SPECIMEN VOLUME: 5 mL (whole blood-each parent)

15 mL (amniotic fluid)

MINIMUM VOLUME: 3 mL (whole blood-each parent)

7 mL (amniotic fluid)

TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days

METHODOLOGY: Allele-specific PCR

CPT: 81479; 86905 x 2 (Parental) CPT: 81479 x 2; 86905 x 2 (Prenatal)

[SSULFU] Urine S-Sulfo-Cysteine

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIAL HANDLING: Early morning specimen preferred

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days

METHODOLOGY: Dip stick for sulfite, and ion exchange

chromatography

CLINICAL USE: Increased in sulfite oxidase deficiency and

molybdenum cofactor deficiency

CPT: 82131

[ST2] ST2 CARDIAC BIOMARKER

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: If storage longer than 5 days, freeze sample

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: < 35 ng/mL

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Aid in prognosis for patients diagnosed with

chronic heart failure

CPT: 83520

[STACHABA] Stachybotrys IgA Antibody

SPECIMEN REQUIRED: Refrigerated or room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days REFERENCE RANGE: < 1 mg/L

METHODOLOGY: Enzyme immunoassay (FEIA)

disorders in conjunction with other clinical

findings CPT: 83520

[STERSULF] STEROID SULFATASE

SPECIMEN REQUIRED: Refrigerated whole blood or skin fibroblasts

TUBE OR CONTAINER: Yellow (ACD) or T25 flasks

SPECIAL HANDLING: Must arrive in Laboratory Monday-Thursday by

2:00 p.m. only

SPECIMEN VOLUME: 10 mLs MINIMUM VOLUME: 7 mLs

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-10 days

REFERENCE RANGE: 2.0 - 9.3 nmol/hr/mg protein (WBC)

1.5 - 6.0 nmol/hr/mg protein (Fibroblasts) METHODOLOGY: Enzymatic activity

CPT: 82658

[STFR] Soluble Transferrin Receptor

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Gold, Green (heparin) or Lavender(EDTA)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.2 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily

REFERENCE RANGE: 12.2 - 27.3 nmol/L

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Aid in diagnosis of iron deficiency in individuals

with chronic disease (inflammatory diseases,

infections, malignancies), many of whom are anemic

CPT: 87238

[STGD1] MACULAR DYST/DEGENER/STARGARDT

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST INCLUDES: DNA sequencing of genes associated with Macular

Dystrophy/Degeneration and Stargardt Syndrome

(Emory-15 genes, Casey Eye-8 genes)

TEST AVAILABILITY: Daily TURNAROUND TIME: 12 weeks

METHODOLOGY: Next Generation Sequencing (NGS)

CPT: 81404; 81406 and 81408 (Emory)

CPT: 81479 (OHSU-CEI)

[STK11SEQ] STK11 GENE IN PEUTZ-JEGHERS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must arrive in laboratory by 1:30

p.m., Monday - Thursday only SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 4 weeks

OTHER NAMES: Peutz-Jeghers Syndrome; Hamartomatous intestinal

polyposis

METHODOLOGY: Direct automated fluorescent sequencing

CPT: 81405

[STL1-2] STICKLER I/II (COL2A1/COL11A1)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: Gene sequencing for Stickler Syndrome I (COL2A1)

and Stickler Syndrome II (COL11A1)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks METHODOLOGY: Sanger sequencing

CPT: 81479 x 2

[STL2] STICKLER II (COL11A1)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily

METHODOLOGY: Sanger sequencing

CPT: 81479

[STLNGS] STICKLER SYNDROME NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL

TEST INCLUDES: Gene sequencing for COL11A1, COL11A2, COL2A1,

COL9A1, COL9A2 and COL8A3 TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: NextGen sequencing (NGS)

CPT: 81479 x 6

[STONE] CALCULI/STONE ANALYSIS

SPECIMEN REQUIRED: Stone

TUBE OR CONTAINER: Sterile plastic container

SPECIMEN VOLUME: Stone

TEST INCLUDES: Photograph and chemical analysis

TEST AVAILABILITY: Daily TURNAROUND TIME: 2 weeks

CLINICAL USE: Determine composition of urinary stone

CPT: 82360

[STP] Syphilis IgG/IgM Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold, Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Nonreactive

OTHER NAMES: Treponemal Test; Syphilis Serology IgG, IgM

METHODOLOGY: CMIA

REFLEX TEST INFORMATION: CLINICAL USE: Test for syphilis

CPT: 86780

[STRAANT] Strep A Direct Rapid Test

SPECIMEN REQUIRED: Swab of tonsillar area, posterior pharynx,

and area of inflammation with swab Avoid contact with tongue and cheek

TUBE OR CONTAINER: BBL Culture Swab (with liquid Stuart's)

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 1 hour REFERENCE RANGE: Negative

METHODOLOGY: Enzyme immunoassay (EIA)

REFLEX TEST INFORMATION: A Throat culture will be set up on

all negative direct Strep A test, at

an additional charge

CLINICAL USE: Aid in the diagnosis of a Streptococcus infection

CPT: 87430

[STRBANT] Strep B Direct Antigen Test

SPECIMEN REQUIRED: Refrigerated CSF, serum or urine (random) TUBE OR CONTAINER: Sterile plastic (CSF) tube or plastic urine

container; Red or Gold

SPECIAL HANDLING: Indicate source of specimen

ORDERING MODULE: MIC

SPECIMEN VOLUME: 0.5 mL CSF

1 mL serum

5 mL urine (random)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Negative

METHODOLOGY: Latex agglutination (LA)

CLINICAL USE: Aid in documentation of active beta streptococcal

infection CPT: 87802

[STREP] Streptomycin Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days

REFERENCE RANGE: 35 - 45 ug/mL (peak serum)

METHODOLOGY: High-performance liquid chromatography (HPLC)

CPT: 80299

[STREPAB14] STREP PNEUMO SEROTYPE (14)

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: IgG antibody to serotypes 1,3,4,5,9,8,12,14,19,

23,26,51,56 and 68

TEST AVAILABILITY: Daily

METHODOLOGY: Fluorescence immunoassay (FIA)

CLINICAL USE: Provides a measure of IgG antibody to specific

capsular types CPT: 86609 x 14

[STREPAB23] STREP PNEUMO IGG 23 SEROTYPES

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: IgG antibody to serotypes 1,2,3,4,5,8,9N,12F,14,

17F,19F,20,22F,23F,6B,10A,11A,7F,15B,18C,19A,9V

and 33F

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

METHODOLOGY: Fluorescence immunoassay (FIA)

CLINICAL USE: Assesses the response to active immunization with

nonconjugated, 23-valent vaccines

CPT: 86317 x 23

[STRIAB] Anti-Striated Muscle Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.4 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 days

REFERENCE RANGE: Negative: < 1:40

METHODOLOGY: Indirect Fluorescent Antibody (IFA)

CLINICAL USE: Aid in diagnosis of myasthenia gravis and thymoma

CPT: 86256

[STRONGG] Strongyloides IgG Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Qualitative determination of IgG antibodies to

Strongyloides ratti in human sera

CPT: 86682

[STRPNEAG] S.pneumoniae Antigen - UR/CSF

Testing for Streptococcus pneumoniae antigen is performed

on a limited basis on cases of suspected meningitis &

septicemia. Criteria for performance include:

a. pretreatment of the patient with antibiotics prior to

specimen collection, or

b. other lab tests of the CSF which indicate bacterial meningitis (high protein, low glucose, high cell count), or

c. positive gram stain of CSF consistent with the morphology of S. pneumoniae.

This test will be rejected if the above criteria are not met.

Minimum requirements:

CSF: 0.1 ml Urine: 1 ml TAT: 4 hours

[STUDYTROPONT] Troponin T Generation 5 ng/L

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lithium heparin gel tube

SPECIAL HANDLING: Lithium heparin gel tubes should be

centrifuged within 2 hours of collection. Plasma should be aliquoted within 2 hours of

collection.

SPECIMEN VOLUME: 1.0 mL MINIMUM VOLUME: 0.3 mL

REFERENCE RANGE: METHODOLOGY: Electrochemiluminescence immunoassay

(ECLIA)

CLINICAL USE: Aiding in the exclusion of the diagnosis of

acute coronary syndrome in a single plasma specimen; Aiding in the diagnosis of acute

coronary syndrome; Possible utility in monitoring

patients with nonischemic causes of cardiac

injury. CPT: 84484

[STX11] STX11 GENE (FHL TYPE 4)

SPECIMEN REQUIRED: Room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis type 4

via STX11 gene

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[STXBP2] STXBP2 GENE (FHL TYPE 5)

SPECIMEN REQUIRED: Room temperature whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis type 5

via STXBP2 gene

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[SUBP] Substance P

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) containing GI preservative

SPECIAL HANDLING: Call lab to obtain special tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-10 days REFERENCE RANGE: 40 - 270 pg/mL

METHODOLGOY: Radioimmunoassay (RIA)

CPT: 83520

[SUCCINYLU] Urine Succinylacetone

SPECIMEN REQUIRED: Frozen urine (random) TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-14 days

REFERENCE RANGE: 0.000-0.300 mmol/moL creatinine

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Quantify succinylacetone which is diagnostic for

tyrosinemia type I CPT: 83921

[SUCCSF] CSF Succinyladenosine

SPECIMEN REQUIRED: Frozen CSF TUBE OR CONTAINER: Transfer tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

CPT: 82542

[SULFATIDE] Urine Sulfatides

SPECIMEN REQUIRED: Urine at room temperature

TUBE OR CONTAINER: Urine container

SPECIMEN VOLUME: 20 mL MINIMUM VOLUME: 5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Thin Layer Chromatography (TLC)

CPT: 82542

[SULFONAM] Sulfonamides Level

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days

METHODOLOGY: Spectrophotometry (SP) CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[SYNCAN] Urine Synthetic THC (K2)

SPECIMEN REQUIRED: Refrigerated or frozen urine

TUBE OR CONTAINER: Urine cup SPECIMEN VOLUME: 10 mL

TEST INCLUDES: Screens for the following drugs/or metabolites:

JWH-018 and metabolites, JWH-073 and metabolites, JWH-122 metabolites, JWH-200 metabolites, JWH-250

metabolites, JWH-398 metabolites, RCS-4 metabolites, AM-2201 metabolites, UR-144

metabolites, MAM-2201 metabolites TEST AVAILABILITY: Daily OTHER NAMES: K2, Spice

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

REFLEX TEST INFORMATION: If positive, confirmation is performed

CPT: 80307

[T15;17] PML/RARa t(15:17) (RT-PCR)

SPECIMEN REQUIRED: Refrigerated peripheral blood or bone marrow

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIAL HANDLING: Must be received in the lab within 72 hours

of collection due to instability of RNA. WBCC is required to accompany specimen.

SPECIMEN VOLUME: 3-5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: 2-3 business days

METHODOLOGY: Reverse transcriptase-Polymerase Chain Reaction

(RT-PCR) CPT: 81315

[T3] Triiodothyronine (T3) Uptake

SPECIMEN REQUIRED: Serum at room temperature

Serum only - plasma unacceptable

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Age and gender specific

OTHER NAMES: Thyroid Hormone Binding Ratio (THBR); T3 Resin

Uptake

METHODOLOGY: Cloned enzyme donor immunoassay (CEDIA)

CLINICAL USE: Thyroid function test; Aid in diagnosis of

hyper- or hypothyroidism

CPT: 84479

[T3F] Free Triiodothyronine (T3) pg/mL

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Stable 5 days at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 2.28-4.95 pg/mL

OTHER NAMES: Free T3; T3, Free; T3, Free, Serum; Tri-

iodothyronine, Free; Unbound T3 METHODOLOGY: ECLIA

CLINICAL USE: Evaluate thyroid function and assess

abnormal binding protein disorders

CPT: 84481

[T3REV] Reverse Triiodothyronine (T3)

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: No radioisotopes administered 24 hours prior

to venipuncture

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.6 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Age specific

OTHER NAMES: Reverse Tri-iodothyronine

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Evaluating the euthyroid sick patient with low T3

concentrations; also useful in evaluating thyroid

function and metabolism

CPT: 84482

[T3TOT] Total Triiodothyronine

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Age and gender specific

OTHER NAMES: T3 Hormone; T3; Tri-iodothyronine

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Thyroid function which is particularly useful in

diagnosis of T3 thyrotoxicosis, in which T3 is

increased an T4 is within normal limits

CPT: 84480

[T4] Thyroxine (T4)

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin) or Gold/Red SPECIAL HANDLING: Specimen Stability: 7 days refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Age specific

OTHER NAMES: T4, Total; Tetraiodothyronine

METHODOLOGY: Electrochemiluminescence Immunoassay

CLINICAL INFORMATION: Thyroid function test

CPT: 84436

[T4F] Free Thyroxine

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin) or Gold SST (serum)

SPECIAL HANDLING: Stable 5 days at room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: 1.0-2.1 ng/dL

OTHER NAMES; Free T4, Direct; Free Thyroxine; T4, Free, Direct;

Unbound T4

METHODOLOGY: ECLIA

CLINICAL USE: Sensitive thyroid function test indicated when

binding globulin (TBG) problems are perceived

CPT: 84439

[T4FD] Free Thyroxine (Dialysis)

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-7 days REFERENCE RANGE: Age-specific

METHODOLOGY: Direct dialysis and HPLC Tandem Mass Spectrometry

CLINICAL USE: Most reliable method for measuring free thyroxine

(T4) in serum; assess the thyroid status of a patient, especially in disorders associated with

abnormal binding protein concentration

CPT: 84439

[TACRO] Tacrolimus (Prograf) Level

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Set up Daily; Specimen needs to be in lab

before 1200 PM to be resulted on same day

TURNAROUND TIME: 24 hours

REFERENCE RANGE: 9.0-19.9 ng/mL OTHER NAMES: FK506; Prograf

METHODOLOGY: Abbott Chemiluminescent Microparticle Immunoassay

(CMIA)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80197

[TBCSFPCR] M. tuberculosis Complex DNA (PCR)

SPECIMEN REQUIRED: Refrigerated CSF

TUBE OR CONTAINER: Sterile tube or container

SPECIMEN VOLUME: 1 mL TEST AVAILABILITY: Daily

METHODOLOGY: Nucleic acid amplification (NAA) technology

CLINICAL USE: Detection of M. tuberculosis

CPT: 87556

[TBG] Thyroxine Binding Globulin

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 days REFERENCE RANGE: Age-specific

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Distinguish between high T4 levels due to hyper-

thyroidism and due to increased binding by TBG in euthyroid individuals who have normal levels of free hormones; document cases of hereditary

deficiency or increase of TBG; work-up of thyroid

disease CPT: 84442

[TBS] TOWNES-BROCKS SYDNROME (SALL1)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81479

[TCELLEXT] T-CELL IMMUNODEFICIENCY EXTEND

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (Heparin) or Lavender (EDTA)

SPECIAL HANDLING: Specimen must be analyzed within 48 hours

(heparin) or 72 hours (EDTA) of collection Specimen must be received in laboratory by

noon on day collected

SPECIMEN VOLUME: 5 mL

MINIMUM VOLUME: 0.5 mL (pediatric)

TEST INCLUDES: Includes helper T-cells (CD4+ and CD3+), naive

helper T-cells (CD4+ and CD45RA+), memory helper T-cells (CD4+ and CD45RO+), suppressor T-cells (CD8+ and CD3+), CD4:CD8 ratio, total T-cells (CD3+), B-cells (CD19+ and CD3-), and NK-cells

([CD16+/CD56+] and CD3-)

TEST AVAILABILITY: Monday-Friday (must arrive in the lab before

2:30 pm

TURNAROUND TIME: 2-4 days

OTHER NAMES: Lymphocyte Subset 6 METHODOLOGY: Flow Cytometry

CLINICAL USE: Enumerate the percents and absolute cell counts

of lymphocyte subsets in lysed whole blood CPT: 86355; 86356 x 3; 86357; 86359; 86360

[TCOF1] TREACHER COLLINS (TSC1) TCOF1

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 8 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

OTHER NAMES: Treacher Collins Syndrome 1 (TSC1) via TCOF1 gene

METHODOLOGY: Sanger sequencing

CPT: 81479

[TCRPCR] T-CELL RECEPTOR GENE REARRANG

SPECIMEN REQUIRED: Refrigerated whole blood or bone marrow

(Other acceptable specimens: Fresh frozen tissue-frozen or paraffin-embedded tisue at

room temperature)

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 5 mL whole blood

3 mL bone marrow

MINIMUM VOLUME: 1 mL(whole blood)

1 mL bone marrow

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 6-8 days OTHER NAMES: T-Cell Clonality

METHODOLOGY: Polymerase chain reaction (PCR)/Capillary

Electrophoresis CPT: 81342

[TDT] Terminal Deoxynucleotid Transferase

SPECIMEN KEQUIKED: Standard bone marrow, touch preps, or

peripheral blood smears at room or whole

blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Peripheral smears must be less than 3 days old

SPECIMEN VOLUME: 1 mL REFERENCE RANGE: Negative

METHODOLOGY: Indirect immunofluorescent antibody (IFA) CLINICAL USE: TdT is an enzyme which catalyzes the polymeri-

zation of several nucleotides in the absence of a DNA template. Normally, only 1% of bone marrow

has TdT activity. High levels of this enzyme

(normal unique only to thymocytes) have been found

in almost all young patients with T-cell and

common ALL, 30% of CML patients in blasts crisis,

50% of patients with acute undifferentiated leukemia, most patients with lymphoblastic lymphoma and, in rare occasions, acute myelogeneous leukemia.

CPT: 88346

[TEICHAB] Teichoic Acid Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 0.6 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days REFERENCE RANGE: Negative: < 1:2

METHODOLOGY: Double immunodiffusion (DID)

CLINICAL USE: Assess therapy in chronic infections caused by

Staphylococcus aureus

CPT: 86329

[TEST] Total Testosterone

SPECIMEN REQUIRED: Plasma/Serum

TUBE OR CONTAINER: Lt Green, Gold or Red

SPECIAL HANDLING: Specimen stability: 5 days - room temp

14 days - refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Age specific

METHODOLOGY: ECLIA

CLINICAL USE: Indicator of LH secretion and Leydig cell

function; evaluate gonadal and adrenal function; aid in diagnosis of hypogonadism, hypopituitarism, Klinefelter syndrome, and impotence (low values) in males, and hirsutism, anovulation, amenorrhea, and virilization in females

CPT: 84403

[TET2] TET2 GENE MUTATION ANALYSIS

SPECIMEN REQUIRED: Whole blood or bone marrow at room

temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Ship same day as collected; Must be received

at performing lab < 72 hours; Use cold pack for transport, but not in direct contact with

specimen

SPECIMEN VOLUME: 5 mL (blood)

2 mL (bone marrow)

MINIMUM VOLUME: 2 mL (blood)

1 mL (bone marrow)

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 1-2 weeks

METHODOLOGY: Bi-directional Sequencing

CPT: 81479

[TETAB] Tetanus Antitoxin Assay

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE: Nonprotective: METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Assess immunity against tetanus by determining

levels of circulating antibodies to tetanus toxin

or to measure the immune response

CPT: 86317

[TGFB2] TRANSFORM GROWTH FACTOR BETA 2

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 weeks

REFERENCE RANGE: No mutation detected

OTHER NAMES: Familial Thoracic Aneurysms and Dissections via

TGFB2 gene

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81479

[THAL] Thallium

SPECIMEN REQUIRED: Refrigerated or frozen plasma in a certified

metal-free plastic transport tube

TUBE OR CONTAINER: Royal Blue with/without EDTA SPECIAL HANDLING: Separate within 2 hours of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: < 5.0 ng/mL

METHODOLOGY: Inductively coupled plasma/Mass Spectrometry

(ICP/MS)

CLINICAL USE: Overexposure/poisoning determination

CPT: 83018

[THAP1] DYSTONIA 6 VIA THAP1

SPECIMEN REQUIRED: Whole blood or isolated DNA at room

temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks

METHODOLOGY: PCR amplification and direct DNA sequencing of

the coding exons CPT: 81404

[THBCO] Other Total Hemoglobin (Blood Gas)

SPECIMEN REQUIRED: Whole blood on ice

TUBE OR CONTAINER: Dark Green (heparin) or Heparinized syringe SPECIAL HANDLING: Keep specimen on ice and transport to lab

immediately; do NOT open

Test should be performed within 8 hours

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 hour

REFERENCE RANGE: 0 -30 days: 12.5-20.5 g/dL

1 month-9 years: 9.9-14.9 g/dL 10 years + : 11.4-18.0 g/dL

METHODOLOGY: Spectrophotometry

CPT: 85018

[THEO] Theophylline Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 0 Day: 6.0-12.0 mg/L

1 Month+: 10.0-20.0 mg/L

OTHER NAMES: Aminophylline; Somophyllin; Theo-Dur; Theolair;

Theospan

METHODOLOGY: Turbidimetric inhibition immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80198

[THERMAMP] THERMAL AMPLITUDE

SPECIMEN REQUIRED: Refrigerated whole blood AND serum TUBE OR CONTAINER: Lavender (EDTA) & Red (no gel) SPECIAL HANDLING: Red top tubes should be prewarmed and

maintained at 37 C during clotting; Separate

serum immediately

SPECIMEN VOLUME: 20 mL (Serum)

5 mL (whole blood)

MINIMUM VOLUME: 15 mL (Serum)

3 mL (whole blood)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-9 days METHODOLOGY: Serological CPT: 86940 x 3; 86941 x 3

[THIO] Thiocyanate Level

SPECIMEN REQUIRED: Frozen plasma or serum

TUBE OR CONTAINER: Dark Green (heparin) or Red

SPECIAL HANDLING: Please indicate if the patient is a smoker or

nonsmoker

Separate serum from cells as soon as possible

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: 0 Day: 6.0-12.0 mg/dL

1 Month +: 10.0-20.0 mg/dL

METHODOLOGY: Spectrophotometry

CLINICAL USE: Evaluate toxicity, nitroprusside poisoning and

smoking CPT: 84430

[THIOC] Thiopurine Metabolites

SPECIMEN TYPE

Whole Blood EDTA

SHIPPING INSTRUCTIONS

Specimen must be shipped refrigerated.

SPECIMEN REQUIRED

Container/Tube: Lavender top (EDTA)

Specimen Volume: 3 mL

Collection Instructions: Send specimen in original tube. Do not

aliquot, centrifuge, or freeze.

FORMS

If not ordering electronically, complete, print, and send

Gastroenterology and Hepatology Client Test Request (T728) with

the specimen

SPECIMEN MINIMUM VOLUME

[THIORP] THIORIDAZINE (MELLARIL) PROFIL

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Mesoridazine and thioridazine

TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days

REFERENCE RANGE: Thioridazine: 250 - 1250 ng/mL

Mesoridazine: 150 - 1000 ng/mL OTHER NAMES: Mellaril

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Monitor therapeutic drug level

CPT: 80342

[THIOT] Thiothixene Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red-no gel or Dark green (heparin) SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 3 ml MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-10 days

REFERENCE RANGE: Therapeutic: 10-30 ng/mL

Potentially toxic: >100 ng/mL OTHER NAMES: Navane

Methodology: High Performance Liquid Chromatography with

Fluorescence Detection; (HPLC-FL)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80342

[THTOAB] Th/To Ribonucleoprotein Antibody

[THYM] Thymidine Kinase

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 15 days

REFERENCE RANGE: < 500 nanomoles/liter plasma

METHODOLOGY: Mass spectroscopy (MS)

CLINICAL USE: Aid in diagnosis of mitochondrial depletion

syndromes CPT: 83789

[THYROAB] Anti-Thyroglobulin Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 Days REFERENCE RANGE: 0.0 - 0.9 IU/mL

METHODOLOGY: Immunochemiluminometric assay (ICMA) CLINICAL USE: Detect and confirm autoimmune thyroiditis,

Hashimoto's thyroiditis

CPT: 86800

[THYROGFNA] Thyroglobulin Needle Washout

SPECIMEN REQUIRED: Frozen fine needle aspirate

TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: Indicate source of specimen; specimen must be

clear, not viscous or blood SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 Days REFERENCE RANGE: < 10 ng/mL

METHODOLOGY: Immunochemiluminescent assay (ICMA) CLINICAL USE: Aid in diagnosis of papillary or follicular

thyroid cancer CPT: 84432

[TIAG] Tiagabine (Gabitril) Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark Green (Heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

OTHER NAMES: Gabitril

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80199

[TICL] Ticarcillin Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube;

Send list of other antibiotics patient is

taking

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days METHODOLOGY: Bioassay

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[TICP] Ticarcillin Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube;

Send list of other antibiotics patient is

taking; Collect specimen within 15-30 minutes

after the end of I.V. infusion or 45-60

minutes after an IM injection or 90 minutes

after oral intake

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days METHODOLOGY: Bioassay

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[TICT] Ticarcillin Level

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red (no gel)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube;

Send list of other antibiotics patient is

taking; Collect specimen just before or within

15 minutes of the next dose SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days METHODOLOGY: Bioassay

CLINICAL USE: Monitor therapeutic drug level

CPT: 80299

[TITAN] Titanium

SPECIMEN REQUIRED: Refrigerated or frozen whole blood TUBE OR CONTAINER: Royal Blue with/without EDTA

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

METHODOLOGY: Inductively coupled plasma/Mass Spectrometry

(ICP/MS)

CLINICAL USE: Overexposure/poisoning determination

CPT: 83018

TLR TOLL-LIKE RECEPTOR FUNCTION

SPECIMEN REQUIRED: Whole blood of patient and normal control

at room temperature

TUBE OR CONTAINER: Dark Green (heparin)

SPECIAL HANDLING: Specimen must be received in laboratory by

1:30 pm, Monday-Thursday only

Specimen must arrive at performing lab within

48 hours of collection

Must send Patient & control collected at

approximately the same time SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 10-12 days

METHODOLOGY: Cell culture/Quantitative Multiplex Bead Assay CLINICAL USE: Assist in diagnosis of innate immunodeficiencies

when genetic defects of the innate immune system are suspected in individuals negative for other immunodeficiencies (eg, no detectable abnormality

of antibody function, complement activity,

neutrophil function, or cell mediated immunity).

CPT: 86353 x 6; 83520 x 3

[TOB] Random Tobramycin Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (Li heparin), Gold or Red SPECIAL HANDLING: Specimen Stability: 3 days refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

OTHER NAMES: Tobral; Nebcin

METHODOLOGY: Homogeneous Enzyme Immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80200

[TOBP] Tobramycin Level Peak

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (Li heparin), Gold or Red

SPECIAL HANDLING: Peak samples should be drawn 60 minutes after

an IM injection, 30 minutes after the end of a

30 minute IV infusion, or immediately after a

60 minute infusion

Specimen Stability: 3 days-refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 4.1-10.3 ug/mL

OTHER NAMES: Tobral; Nebcin

METHODOLOGY: Homogeneous Enzyme Immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80200

[TOBT] Tobramycin Level Trough

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin), Gold or Red SPECIAL HANDLING: Draw immediately prior to next dose

Specimen Stability: 3 days refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: OTHER NAMES: Tobral; Nebcin METHODOLOGY: Homogeneus Enzyme Immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80200

[TOL] Toluene

SPECIMEN REQUIRED: Frozen whole blood TUBE OR CONTAINER: Dark green (heparin)

SPECIAL HANDLING: Tubes should be filled to prevent loss of

volatile compound into headspace

SPECIMEN VOLUME: 20 mL (split into 2 tubes)

MINIMUM VOLUME: 7 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 7-9 days

REFERENCE RANGE: Environmental exposure: none detected

METHODOLOGY: Headspace Gas Chromatography/Flame Ionization

Detection (GC-FID)

CLINICAL USE: Monitor exposure to toluene

CPT: 84600

[TOP] Topiramate Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 2.0 - 25.0 ug/mL

OTHER NAMES: Topamax

METHODOLOGY: Liquid Chromatoraphy/Mass Spectrometry (LC/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80201

[TOTPORF] Stool Porphyrins

SPECIMEN REQUIRED: Frozen stool TUBE OR CONTAINER: Plastic container

SPECIMEN VOLUME: 20 grams MINIMUM VOLUME: 10 grams TEST AVAILABILITY: Daily TURNAROUND TIME: 4-8 days REFERENCE RANGE: 0-200 nmol/g

REFLEX TEST INFORMATION: Fractionation of porphyrins will be

reflexed is total is increased

CPT: 84126

[TOXAB] Toxocara Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme-linked immunosorbant assay (ELISA)

CLINICAL USE: Detect antibody to Toxocara canis

CPT: 86682

[TOXOA] Toxoplasma IgA Antibody

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days REFERENCE RANGE: < 0.90

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Valuable tool for the early detection of acute

disease in pregnant women and individuals with

AIDS

CPT: 86777

[TOXOIGG] Toxoplasma IgG Ab, Quantitative

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Gold, Red or Light Green (Li heparin) SPECIAL HANDLING: Stablility 3 days at room temperature

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Non-Reactive: < 1.0 IU/mL

Equivocal: >/= 1 - Reactive: >/= 3.0 IU/mL

METHODOLOGY: Electrochemiluminescence Immunoassay

CLINICAL USE: Support the diagnosis of toxoplasmosis; document

past exposure and/or immunity to Toxoplasma gondii

CPT: 86777

[TOXOM] Toxoplasma IgM Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Refrigerate at 2-8 degrees C for up to 8 days

Freeze at -20 degrees C if testing is not

completed within 8 days. SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: < 8.0 AU/mL

Equivocal: 8.0-9.9 AU/mL Positive: > 9.9 AU/mL

METHODOLOGY: Chemiluminescent immunoassay (CLIA) CLINICAL USE: Support the diagnosis of toxoplasmosis

CPT: 86778

[TOXPCR] Toxoplasma gondii DNA (PCR)

SPECIMEN REQUIRED: Whole blood or bone marrow at room

temperature; Refrigerated CSF

TUBE OR CONTAINER: Lavender (EDTA), Yellow (ACD), Sterile tube

SPECIAL HANDLING: Only stable for 7 days; CSF can be frozen

SPECIMEN VOLUME: 3 mL (whole blood or bone marrow)

1 mL (CSF)

MINIMUM VOLUME: 2 mL (whole blood or bone marrow)

0.5 mL (CSF)

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase chain reaction (PCR) with Southern blot

confirmation CPT: 87798

[TOXPCRAMN] Toxoplasma gondii DNA (PCR)

SPECIMEN REQUIRED: Frozen amniotic fluid (unspun)

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Do NOT centrifuge fluid

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-6 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase chain reaction (PCR) with Southern blot

confirmation CPT: 87798

[TOXPCRQNT] Toxoplasma gondii DNA (PCR)

SPECIMEN REQUIRED: Bronchial lavage/wash, Pericardial/pleural

fluid, tracheal aspirate/wash, amniotic fluid

at room temperature or frozen

Frozen Aqueous fluid, CSF or Vitreous fluid

Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container or screw top tube

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be

received at performing lab within 4 days of

collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL CSF, amniotic/pericardial/pleural fluids

or respiratory specimens

0.5 mL aqueous or vitreous fluid

MINIMUM VOLUME: 1 mL (whole blood)

0.5 mL CSF, amniotic/pericardial/pleural fluids

or respiratory specimens

0.1 mL aqueous or vitreous fluid

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[TP] Total Protein

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (Li heparin) or Gold

SPECIAL HANDLING: Specimen Staibility: 6 days room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: < 1 year: None Estabilshed

> 1 year: 6.0-8.5 g/dL

METHODOLOGY: Colorimetric

CLINICAL USE: Evaluate nutritional status and investigate edema

CPT: 84155

[TP53] TP53 Sequencing

SPECIMEN REQUIRED: Peripheral blood, Bone Marrow OR FFPE solid

tumor tissue. Parffin block is preferred.

Alternatively, send 1 H&E slide plus 5-10

unstained slides cut at 5 or more microns.

Please use positively-charged slides and

10% NBF fixative. Do not use zinc fixatives.

TUBE OR CONTAINER: Lavender (EDTA) or Bone Marrow (EDTA) or

SPECIAL HANDLING: Use cold pack for transport, making sure cold

pack is not in direct contact with specimen.

SPECIMEN VOLUME: 5 mL (whole blood)

2 mL (bone marrow)

TURNAROUND TIME: 10 days METHODOLOGY: Molecular

CPT: 81405

[TPP1-PPT1] TPP1 & PPT1

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Yellow (ACD)

SPECIAL HANDLING: Specimen must be received in laboratory by

1:30 pm, Monday through Friday only

Must be received at performing lab within 48

hours of collection

SPECIMEN VOLUME: 7 mL MINIMUM VOLUME: 5 mL

TEST INCLUDES: Tripeptidyl Peptidase 1 (TPP1) and

Palmitoyl-Protein Thioesterase 1 (PPT1)

TEST AVAILABILITY: Monday-Thursday only

REFERENCE RANGE: TPP1: 85 - 326 nmol/hr/mg protein

PPT1: 20 - 93 nmol/hr/mg protein

OTHER NAMES: Tripeptidyl Peptidase 1 (TPP1) and

Palmitoyl-Protein Thioesterase 1 (PPT1)

METHODOLOGY: Fluorometric

CLINICAL USE: Aid in the evaluation of patients with clinical

presentations suggestive of NCL; Aid in the differential diagnosis of infantile and late

infantile NCL CPT: 82657

[TRAB] TSH Receptor Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: No radioisotopes administered 24 hours prior

to venipuncture

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.4 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 10 days

REFERENCE RANGE: TSH binding inhibition index:

Negative: Borderline: 10-15

Positive: > 15

OTHER NAMES: LATS; Long-Acting Thyroid Stimulator; Thyrotropin-

Binding Inhibitory Immunoglobulin; TRAb; TSH Receptor Antibody; TSH Receptor Binding Inhibitory

Immunoglobulin

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Aid in diagnosis of hyperthyroidism and Graves'

disease CPT: 83519

[TrABS] Anti-Tr Antibody

SPECIMEN REQUIRED: Frozen room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days

REFERENCE RANGE: Negative: < 1:10 Units

METHODOLOGY: Indirect Immunofluorescence (IFA) CLINICAL USE: Associated with paraneoplastic cerebellar

degeneration and Hodgkin's disease

CPT: 86255

[TRAMT] Tramadol (Ultram) Level

SPECIMEN REQUIRED: Refrigerated serum or plasma

TUBE OR CONTAINER: Red, Lavender (EDTA) or Dark green (heparin) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 days

OTHER NAMES: Ultram

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 82492

[TRANSA] Tissue Transglutaminase IgA Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Negative: 0 - 3 U/mL

Weak positive: 4 - 10 U/mL

Positive: >10 U/mL

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of gluten-sensitive

enteropathy (GSE), such as celiac disease and

dermatitis herpetiformis

CPT: 83516

[TRANSF] Transferrin

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Hemolyzed specimens will be rejected

Specimen Staiblity: 8 day-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: 111 - 301 mg/dL

METHODOLOGY: Immunoturbidimetric

CLINICAL USE: Aids in diagnosis of malnutrition, acute

inflammation, infection, assessment of renal function and RBC disorders, such as iron

deficiency anemia CPT: 84466

[TRANSG] Tissue Transglutaminase IgG Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Gold or Red

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Negative: < 6 U/mL

Weak positive: 6 - 9 U/mL

Positive: > 9 U/mL

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in the diagnosis of gluten-sensitive

enteropathy (GSE), such as celiac disease and

dermatitis herpetiformis

CPT: 83516

[TRAP] Tartrate Resistant Acid Phosphatase

SPECIMEN REQUIRED: Serum

TUBE OR CONTAINER: Red or gold

SPECIAL HANDLING: Centrifuge 15 minutes at 1,000b and store

SST tube refrigerated prior to shipment. If not able to ship same day drawn, aliquot and store serum frozen prior to shipment.

Please add a comment to Test Requisition that

sample was stored frozen. SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 8-14 days

CLINICAL USE: Non-specific indicator of lipid storage and may be

useful in monitoring treatment of Gaucher disease

CPT: 84060

[TRAPS] TNFRSF1A MUTATION IN TRAPS

SPECIMEN REQUIRED: Whole blood at room temperature (ship on ice

(pack during hot weather) or buccal swab

TUBE OR CONTAINER: EDTA (lavender) or swab

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-5 weeks

OTHER NAMES: TRAPS-Tumor Necrosis Factor Receptor-Associated

periodic Fever Syndrome; Familial Hibernian Fever;

Autosomal Dominant Familial Periodic Fever:

TNFRSF1A gene sequencing

METHODOLOGY: Bi-directional sequence analysis of exons 2, 3,

and 4, amplified from gemonic DNA

CPT: 81479

[TREGS] REGULATORY T-CELL

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Dark green (Heparin) or Lavender (EDTA) SPECIAL HANDLING: Specimen must be analyzed within 72 hours

of collection

Specimen must be received in laboratory by

noon on day collected

SPECIMEN VOLUME: 4 mL

MINIMUM VOLUME: 0.5 mL (pediatric)

TEST INCLUDES: Regulatory T-cells (Tregs) are a population of

CD4+, CD25+, CD127

TEST AVAILABILITY: Monday-Friday (must arrive in the lab before

1:30 pm)

TURNAROUND TIME: 2-4 days METHODOLOGY: Flow Cytometry

CLINICAL USE: Aid in investigation of primary immunodeficiency

disorders CPT: 86356

[TRH] Thyroid Releasing Hormone

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: PTH-RP

SPECIAL HANDLING: Collect blood in a special PTH-RP tube and

gently invert the tube twice; centrifuge

immediately, transfer and freeze SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily REFERENCE RANGE: < 5 pg/mL

METHODOLOGY: Direct Radioimmunoassay (RIA)

CPT: 83519

[TRICHABG] Trichinella IgG Antibody

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-6 days

CPT: 86784

[TRICHNAA] Trichomonas vaginalis (NAA)

SPECIMEN REQUIRED: Room temperature or refrigerated Vaginal, endocervical, or male urethral swab,

or cervical cells in liquid cytology vial

Urine specimens are performed in house; order

VPTV

TUBE OR CONTAINER: Gen-Probe Aptima swab; liquid cytology vial

SPECIAL HANDLING: ORDERING MODULE: LAB

SPECIMEN VOLUME: One swab or entire liquid cytology vial

TEST AVAILABILITY: Daily TURNAROUND TIME:

REFERENCE RANGE: None detected

METHODOLOGY: Nucleic Acid Amplification (NAA)

CLINICAL USE: Diagnosis of Trichomonas vaginalis infection

CPT: 87661

[TRIFL] Trifluoperazine Level

SPECIMEN REQUIRED: Refrigerated or frozen serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT use gel barrier tube; protect from

light

Separate from cells within 2 hours of

collection

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 6-8 days

REFERENCE RANGE: 4.0 - 40.0 ng/mL

OTHER NAMES: Stelazine

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80342

[TRIG] Triglycerides Level

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Fasting specimen is recommended

Specimen Stability: 2 days-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: < 17 years: > 17 years: METHODOLOGY: Enzymatic

colorimetric

CLINICAL USE: Aid in diagnosis and treatment of patients with

diabetes mellitus, nephrosis, liver obstruction, and other diseases involving lipid metabolism, or

various endocrine disorders

CPT: 84478

[TRIGFL] Body Fluid Triglycerides

SPECIMEN KEQUIKED: Kerrigerated body Iluid

TUBE OR CONTAINER: Sterile container SPECIAL HANDLING: Specify source of fluid A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 84478

[TRIGPC] Pericardial Fluid Triglycerides

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84478

[TRIGPL] Pleural Fluid Triglycerides

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84478

[TRIGPT] Peritoneal Fluid Triglycerides

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84478

[TRIGSY] Synovial Fluid Triglycerides

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIAL HANDLING: A fasting specimen (12-14 hours or fasting

after last meal) is recommended. Random

specimens are acceptable SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Timed endpoint

CPT: 84478

[TRISCR] Tricyclic Antidepressants Screen

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Gold, Red or Light Green (heparin) SPECIAL HANDLING: Specimen Stability: 8 hours room temp

48 hours refrigerated

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Qualitative estimate of combined amount of

Amitryptiline, Doxepine Desipramine, Imipramine,

Nortiptyline and metabolites TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: Negative

METHODOLOGY: Homogeneous enzyme immunoassay

CLINICAL USE: Detect possible toxicity in emergency overdose

situations CPT: 80335

[TROFDNA] HIV Co-receptor Tropism Assay

SPECIMEN REQUIRED: Frozen whole blood TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must be frozen in a screw top tube

Place in -20 C freezer

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 4 mL TEST AVAILABILITY: Daily

CLINICAL USE: To be used when a patient's viral load is

undetectable, tropism is unknown, and substitution with a CCR5 antagonist-containing regimen is

desired

CPT: 87906

[TROFILE] HIV Co-receptor Tropism Assay

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA) or PPT (white)

SPECIAL HANDLING: Specimen must be frozen in a screw top tube

or a PPT tube

Place in -20 C freezer

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily

CLINICAL USE: Identifies the tropism of a patient's HIV

CPT: 87906

[TROPI] Troponin I

SPECIMEN REQUIRED: Refrigerated plasma TUBE OR CONTAINER: Light Green (heparin)

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 12 hours

REFERENCE RANGE: Negative: 0.0-0.39 ng/mL Suggestive of myocardial injury: 0.4-1.2 ng/mL Consistent with recent myocardial necrosis:

>1.5 ng/mL

METHODOLOGY: Chemiluminescence

CLINICAL USE: Detect cardiac injury and diagnose acute

myocardial infarction

CPT: 84484

[TROPT] Troponin T

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Light Green (Li Heparin)

SPECIAL HANDLING: Specimen Stability: 24 hours-refrigerated

SPECIMEN VOLUME: 0.8 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2 Hours

REFERENCE RANGE: Female: Male: METHODOLOGY: Electrochemiluminescence

immunoassay (ECLIA)

CLINICAL USE: Detect cardiac injury; predict mortality in cases

of unstable angina; serve as a marker for perioperative myocardial infarction

CPT: 84484

[TROPT2NDHR] Troponin T 120 Minute

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Light Green

SPECIMEN VOLUME: 0.8 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Female: METHODOLOGY: Electrochemiluminescence

immunoassay (ECLIA)

CLINICAL USE: Detect cardiac injury; predict mortality in cases

of unstable angina; serve as a marker for perioperative myocardial infarction

CPT: 84484

[TROPTBASE] Troponin T Baseline

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Light Green

SPECIMEN VOLUME: 0.8 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: Female: Male: METHODOLOGY: Electrochemiluminescence

immunoassay (ECLIA)

CLINICAL USE: Detect cardiac injury; predict mortality in cases

of unstable angina; serve as a marker for perioperative myocardial infarction

CPT: 84484

[TRY] Tryptase

SPECIMEN REQUIRED: Refrigerated serum or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Obtain specimen between 15 minutes and 3 hours

after event suspected of causing mast cell

activation

SPECIMEN VOLUME: 0.7 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-8 days METHODOLOGY: ImmunoCAP

CLINICAL USE: Elevated levels of tryptase are found following

mast cell activation in anaphylaxis in serum and

in allergic rhinitis in nasal fluid. Elevated levels of tryptase are also found in serum in

systemic mastocytosis

CPT: 83520

[TRYP] Trypsin Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red, Gold, Green (heparin), or Lavender(EDTA)

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE: 10.0 - 57.0 ng/mL

OTHER NAMES: Cathodic Trypsinogen; TLI; Trypsinogen

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Specific indicator of pancreatic damage; this

assay is useful in the evaluation of acute

pancreatitis CPT: 83519

[TRYPG] Trypanosoma cruzi IgG Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate from cells within 45 minutes of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days

REFERENCE RANGE: 0.20 - 1.20 O.D. - Equivocal

>/= 1.21 O.D. - Positive

METHODOLOGY: Enzyme-Linked Immunosorbent Assay (ELISA) CLINICAL USE: Support clinical diagnosis of Chagas Disease

CPT: 86753

[TRYPM] Trypanosoma cruzi IgM Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate from cells within 45 minutes of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-10 days

REFERENCE RANGE: < 1:16: Negative

>/= 1:16: Positive

METHODOLOGY: Indirect Fluorescent Antibody (IFA) CLINICAL USE: Support clinical diagnosis of Chagas Disease

CPT: 86753

[TRYPT] Tryptophan Level

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Green (heparin)

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 5-9 days

METHODOLOGY: Liquid chromatography/tandem Mass spectrometry

(LC/MS-MS) CPT: 82131

[TSC1DNA] TSC1 DNA SEQUENCING

SPECIMEN REQUIRED: Whole Blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polyremase Chain Reaction (PCR) and Bi-directional

sequencing

CLINICAL USE: Detects sequence variations in TSC1 genes

CPT: 81406

[TSC2DNA] TSC2 DNA SEQUENCING

SPECIMEN REQUIRED: Whole Blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polyermase Chain Reaction (PCR) and Bi-directional

sequencing

CLINICAL USE: Detects sequence variations in TSC2 genes

CPT: 81407

[TSH] Thyroid Stimulating Hormone (TSH)

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold SPECIAL HANDLING: Specimen Stability: 8 days-room temp

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 0.35-4.89 uIU/mL

OTHER NAMES: Third-Generation TSH; Thyrotropin; TSH

METHODOLOGY: ECLIA

CLINICAL USE: Primary thyroid function test

CPT: 84443

[TSI] Thyroid Stimulating Immunoglobulin

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Centrifuge and separate cells within 2 hours

of collection

SPECIMEN VOLUME: 3 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: 0.00--0.55 IU/L

OTHER NAMES: Human Thyroid Stimulator (HTS); Long-Acting

Thyroid Stimulator (LATS); Thyroid-Stimulating

Antibody (TSAb); TSI

METHODOLOGY: The IMMULITE 2000 TSI assay designed for the

specific Semi- Quantitative detection of

stimulating autoantibodies using a bridging format

and human TSH receptor fragment chimeric

recombinant proteins. The capture and detection

proteins are designed to be specific for

antibodies that stimulate the native receptor.

This method provides a determination of thyroid

stimulating autoantibodies that are specific to

TSH receptors in human serum or plasma. The assay

is traceable to WHO NIBSC 08/204.

CLINICAL USE: Detected in the majority of patients (77.8%) with

Graves' disease; also associated with a small portion (15.9%) of patients with toxic multi-

nodular goiter CPT: 84445

[TUMNEC] Tumor Necrosis Factor

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL

MINIMUM VOLUME: 0.4 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: < 8.1 pg/mL OTHER NAMES: Cachectin; TNFa

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) CLINICAL USE: Levels may be elevated in sepsis, autoimmune

diseases, various infectious diseases and

transplant rejection

CPT: 83520

[TWIST] CRANIOSYN/SAETHRE-CHOTZEN(TWIS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 2 tubes of 3-5 mL (children & adults)

MINIMUM VOLUME: 1-2 mL (newborn)

TEST INCLUDES: Sequencing of the entire coding region of the

Twist gene

TEST AVAILABILITY: Daily TURNAROUND TIME: 15-20 days

OTHER NAMES: Saethre-Chotzen Syndrome via Twist Gene METHODOLOGY: PCR amplification and DNA sequencing CLINICAL USE: Confirm the nature of the dwarfism in affected

individual; Determine whether Saethre-Chotzen syndrome is responsible for abnormalities in skull eyes, or limbs; Discriminate between syndromes with different but overlapping clinical symptoms in affected individual; To establish whether symptoms are spontaneous or inherited within a family; Evaluate risk of having a child with

Saethre-Chotzen Syndrome

CPT: 81479 (sequencing); 81406 (deletion/duplication)

[TYPHUS] TYPHUS FEVER GROUP-RICKETTSIA

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST INCLUDES: IgG and IgM TEST AVAILABILITY: Daily

METHODOLOGY: Immunofluorescence (IF)

CPT: 86757 x 2

[TYR] OCA1 VIA TYR GENE SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 weeks

OTHER NAMES: Oculocutaneous Albinism Type 1 (OCA) METHODOLOGY: Bi-directional Sanger Sequencing

CPT: 81404

[TYSAB] TYSABRI AB (NATALIZUMAB)

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or Gold separate within 1 hour of collection SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

METHODOLOGY: Enzyme linked immunoassay (ELISA)

CPT: 83516

[UBT] Urea Breath Test (Timed)

SPECIMEN REQUIRED: Breath samples at room temperature on

patients >/= 18 years of age

TUBE OR CONTAINER: Pediatric patients: One blue sample bag

(baseline) and one pink sample bag

(post-dose)

Adult patients: One blue sample bag (baseline) and one grey sample bag

(post-dose)

SPECIAL HANDLING: Call laboratory to obtain specimen collection

kit; Collect sample on patinets 3 years

old or greater

SPECIAL INSTRUCTIONS: The patient should not take

antimicrobials, proton pump inhibitors, or bismuth preparations within two weeks

prior to testing. Note: Solution contains phenylalanine. Phenylketonurics should be

warned.

SPECIMEN VOLUME: Pediatric patients: One blue sample bag and one pink sample bag

Adult patients:

One blue sample bag and one grey sample bag

TEST AVAILABILITY: Daily REFERENCE RANGE: Negative

METHODOLOGY: IR (Infrared) spectroscopy to assess the presence

of (13) CO2

CLINICAL USE: Aid in the diagnosis of H. pylori infection

CPT: 83013

[UCWKUP] Urine Culture Workup

[UETANA] E-TEST MIC, ANAEROBES

[UGT1A1GENO] UGT1A1 TA Repeat Genotype

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1 week

METHODOLOGY: Capillary electrophoresis

CPT: 81350

[UKBGP] KIRBY BAUER, MISC GRAM POS

[ULTRALH] Luteinizing Hormone

SPECIMEN REQUIRED: Frozen serum (preferred) or plasma TUBE OR CONTAINER: Red, Gold or Lavender (EDTA)

SPECIAL HANDLING: Serum or plasma must be separated from cells

within 45 minutes of collection SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

METHODOLOGY: 2-site electrochemiluminescence

CLINICAL USE: Aid in evaluating the normalcy of hypothalamic-

pituitary-gonadal axis

CPT: 83002

[UNHGB] Unstable Hemoglobin

SPECIMEN REQUIRED: Refrigerated whole blood

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Must be received at performing lab within 24

hours of collection; Collect Monday through Thusday only and send to lab by 1:00 pm Do NOT perform test on patients < 6 months SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST AVAILABILITY: Monday-Thursday only

TURNAROUND TIME: 2-3 days REFERENCE RANGE: Negative

METHODOLOGY: Visual identification of Hemoglobin precipitates

CPT: 83068

[UNUR] Urine Random Urea Nitrogen

SPECIMEN REQUIRED: Refrigerated random urine

TUBE OR CONTAINER: Clear/Red Urine tube (no additive)

SPECIMEN VOLUME: 1 tube (6 mL) MINIMUM VOLUME: 1 tube (1 mL)

TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established

METHODOLOGY: Kenetic with Urease/Glutamate dehydrogenase

CPT: 84540

[UREMH] Ureaplasma/M. hominis culture

SPECIMEN REQUIRED: Urogenital, urine, joint fluid, CSF;

Refrigerate after collection and during transport

TUBE OR CONTAINER: Micro-Test Multi-Microbe

SPECIAL HANDLING: Indicate specimen source; Order CULMYC for

respiratory mycoplamas on repiratory specimens

Inclusion of patient clinical history and

differential diagnostic considerations is very

helpful

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks

CLINICAL INFORMATION: Ureaplasma and urogenital mycoplasmas

have been indicated as a cause of infertility and should be

considered in an infertility workup REFERENCE RANGE: No growth

METHODOLOGY: Culture

[URFEP] URINE IRON PROFILE

SPECIMEN REQUIRED: Refrigerated urine (24 hour)

TUBE OR CONTAINER: Plastic urine container (no preservative) SPECIAL HANDLING: 24 hour urine collected in "P" container

(no preservative)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-8 days

METHODOLOGY: Inductively Coupled Plasma/Optical Emission

(ICP/OES)

CLINICAL USE: Monitor exposure

CPT: 83540

[URIC] Uric Acid

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: For Patients on ELITECK order URICPOST ELITECK

Specimen Stability: 3 days-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Female: 2.6-6.0 mg/dL

Male: 3.5-7.2 mg/dL

METHODOLOGY: Enzymatic Colorimetric

CPT: 84550

[URICPC] Pericardial Fluid Uric Acid

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 84560

[URICPL] Pleural Fluid Uric Acid

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 84560

[URICPOST ELITEK] Uric Acid

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Collect blood samples in pre-chilled tubes

containing heparin and immediately immerse and

maintain sample in an ice water bath. Assay samples within 4 hours of collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: Female: 2.6-6.0 mg/dL

Male: 3.5-7.2 mg/dL

METHODOLOGY: Enzymatic Colorimetric

CPT: 84550

[URICPT] Peritoneal Fluid Uric Acid

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colormetric

CPT: 84560

[URICSY] Synovial Fluid Uric Acid

SPECIMEN REQUIRED: Refrigerated fluid TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CPT: 84560

[URICUR] Urine Random Uric Acid

SPECIMEN REQUIRED: Refrigerated random urine TUBE OR CONTAINER: Plastic urine container

SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: None established METHODOLOGY: Enzymatic Colorimetric

CLINICAL USE: Renal function test

CPT: 84560

[UTTRGSENSCHG] UTT RG SENS REFERRED *CHARGE*

[UWBCPCR] Bacterial PCR Univ Washington

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[UWFUNPCR] Fungal PCR Univ Washington

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[UWMTBPCR] M tb cmpl PCR Univ Washington

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[UWNTMPCR] Non-TB PCR Univ Washington

SPECIMEN REQUIRED: Fresh frozen tissue, paraffin embedded

tissue, lower respiratory or sterile body

fluid

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days REFERENCE RANGE: Not detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 87801

[VAGDNA] VAGINITIS/VAGINOSIS DNA PROBE

SPECIMEN REQUIRED: Vaginal fluid swab at room temperature or

refrigerated. Mon-Thur collection only.

TUBE OR CONTAINER: Affirm VPIII Ambient Temperature Transport

System (ATTS)

SPECIAL HANDLING: Break ampule in ATTS reagent dropper and

dispense reagent into sample collection tube. Using transport swab provided, obtain a sample from the posterior vaginal fornix. Immediately place swab in collection tube. Break swab

shaft at prescored line. Press cap onto

collection tube until it snaps in place.

Specimen collected or transported other than

previously described or specimen more than 72

hours old will be rejected

SPECIMEN VOLUME: One swab in correct transport

TEST INCLUDES: Detection and identification of Candida species,

Gardnerella vaginalis, and Trichomonas vaginalis

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME:

METHODOLOGY: DNA probe

CLINICAL USE: Aid in diagnosis of vaginal fluid specimens from

patients with symptoms of vaginitis/vaginosis

CPT: 87480; 87510; 87660

[VALP] Valproic Acid (Depakene) Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Specimen Stability: 2 days-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 50-100 ug/mL

OTHER NAMES: Depakene; Depakote; Valproate; Dipropylacetic Acid

METHODOLOGY: Homogeneous enzyme immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80164

[VALPF] Free Valproic Acid Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 3 mL MINIMUM VOLUME: 1.1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days

REFERENCE RANGE: Therapeutic: 6.0-22.0 ug/mL METHODOLOGY: Ultrafiltrate assayed by immunoassay

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[VANCO] Random Vancomycin Level

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (Li heparin) or Gold

SPECIAL HANDLING: Specimen Stability: 48 hours-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily **TURNAROUND TIME: 8 hours**

REFERENCE RANGE: None established

METHODOLOGY: KIMS

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80202

[VANCP] Vancomycin Level Peak

SPECIMEN REQUIRED: Refrigerated plasma or serum

TUBE OR CONTAINER: Light Green (Li heparin) or Gold

SPECIAL HANDLING: Peak samples should be drawn 60 minutes after

an I.M. injection, 30 minutes, 1 hour or 2 hours after a 60-minute I.V. infusion Specimen Stability: 48 hours-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 20-40 ug/mL

OTHER NAMES: Vancocin METHODOLOGY: KIMS

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80202

[VANCT] Vancomycin Level Trough

SPECIMEN REQUIRED: Refrigerated plasma or serum TUBE OR CONTAINER: Light Green (heparin) or Gold

SPECIAL HANDLING: Draw immediately prior to the next dose

Specimen Stability: 48 hours-room temp

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8 hours REFERENCE RANGE: 10-20 ug/mL

OTHER NAMES: Vancocin

METHODOLOGY: Turbidimetric inhibition immunoassay

CLINICAL USE: Monitor therapeutic drug level and assess toxicity

CPT: 80202

[VAP] VAP CHOLESTEROL PROFILE

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: 10-12 hour fasting specimen is required;

separate within 45 minutes of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL

TEST INCLUDES: Total LDL-cholesterol (direct); Total HDL-

cholesterol (direct; total VLDL-Cholesterol (direct); Triglycerides (direct); Total Non-HDL cholesterol (LDL+VLDL); Lp(a); Real LDL cholesterol; LDL-C pattern size; Remnant lipo-

proteins; subclass information TEST AVAILABILITY: Daily

OTHER NAMES: Lipoprotein Subfractionation Profile; Expanded

Lipoprotein Analysis; HDL Subfractions; LDL Particle Size; LDL Subfractions; Vertical Auto

Profile

METHODOLOGY: Vertical density-gradient ultracentrifugation

followed by measurement of the cholesterol

distribution and Enzymatic

CLINICAL USE: Comprehensive lipoprotein analysis

CPT: 83701

[VARG] Varicella-Zoster IgG Antibody

SPECIMEN REQUIRED: Serum

TUBE OR CONTAINER: Gold or Red

SPECIAL HANDLING: Refrigerate at 2-8 degrees C for 2 days

Freeze at -20 degrees C for up to 2 months

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

PEDIATRIC TEST INFO: 0.5 mL; 1 Gold microtainer

TEST AVAILABILITY: Monday - Friday

TURNAROUND TIME: 1-2 days

REFERENCE RANGE: Negative: Equivocal: 0.60-0.89

Positive: >0.89

OTHER NAMES: Chickenpox IgG; Herpes Zoster Antibodies; VZV IgG METHODOLOGY: Enzyme-Linked Liquid Fluorescent Assay (ELFA)

CLINICAL USE: Diagnose VZV infection; determine adult

susceptibility to infection

CPT: 86787

[VARM] Varicella-Zoster IgM Antibody

SPECIMEN REQUIRED: Serum at room temperature

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Negative: < 0.91 AU

Borderline: 0.91 - 1.09 AU

Positive: > 1.09 AU

OTHER NAMES: Chickenpox IgM; Herpes Zoster Antibodies; VZV IgM

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Aid in confirmation of acute VZV infection

CPT: 86787

[VASO] Vasoactive Intestinal Polypeptide

SPECIMEN REQUIRED: Frozen plasma with trasylol

TUBE OR CONTAINER: Lavender (EDTA) -chilled

SPECIAL HANDLING: Collect in chilled EDTA tube; transfer to red

top tube with 0.25 mL Trasylol solution. Mix

well, centrifuge, transfer plasma to

specially labeled transport tube and freeze.

Contact laboratory for collection kit.

Patient must not have received radioactive

substances 24 hours prior to test. patient

should receive at least 300 grams of

carbohydrate daily for 3 days before fasting

12 hours

SPECIMEN VOLUME: 2 mL

MINIMUM VOLUME: 0.4 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 7 days

REFERENCE RANGE: 23.0-63.0 pg/mL

OTHER NAMES: VIP

METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: VIP can be secreted by pancreatic or ectopic

islet cell tumors, and in islet-cell hyperplasia

CPT: 84586

[vBCUB] BIOFIRE BLOOD CULTURE ID

[VCMVPCR] CYTOMEGALOVIRUS PCR

SPECIMEN REQUIREMENTS: 1ML OF CSF

SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN

AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

[VDRLCSF] CSF VDRL

SPECIMEN REQUIRED: Refrigerated CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-3 days REFERENCE RANGE: Nonreactive METHODOLOGY: Agglutination

REFLEX TEST INFORMATION: Reactive tests will be reflexed to a

quantitative test at an additional

charge

CLINICAL USE: Test for syphillis/neurosyphillis

CPT: 86592

[VEBVPCR] EPSTEIN BAR VIRUS CSF

SPECIMEN REQUIREMENTS: 1ML OF CSF

SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN

AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

[VEGF] Vascular Endothelial Growth Factor

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate and freeze immediately

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: 0-115 pg/mL

METHODOLOGY: Enzyme immunoassay (EIA)

CLINICAL USE: Assessment of tumor progression and prognosis

CPT: 83520

[VENTTY] ENTEROVIRUS TYPING OF ISOLATES

[VERBCGP] Verigene BC-GP Nucleic Acid

[VGCCAB] Voltage-Gated Calcium Channel Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Separate serum from cells within 1 hour of

collection

SPECIMEN VOLUME: 0.2 mL

MINIMUM VOLUME: 0.1 (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily

REFERENCE RANGE: OTHER NAMES: Lambert-Eaton Myasthenic Syndrome

Antibody; LEMS

Autoantibody; VGCCA; VGCC Antibody METHODOLOGY: Radioimmunoassay (RIA)

CLINICAL USE: Aid in the diagnosis of Lambert-Eaton myasthenic

syndrome (LEMS)

ČPT: 83519

[VGKCAB] Voltage-Gated Potassium Channel Ab

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-10 days

METHODOLOGY: Quantitative Radiobinding Assay

CLINICAL USE: Associated with neuromuscular weakness as found

in neuromyotonia; VGKC antibodies are also associated with paraneoplastic neurological

syndromes and limbic encephalitis

CPT: 83519

[VHHV6] HHV6 PCR

SPECIMEN REQUIREMENTS: 1ML OF CSF SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

[VHL] VON HIPPEL-LINDAU DISEASE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3 mL

TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81404

[VINABPR20] INFLUENZA A/B (EIA/PCR20)

SPECIMEN REQUIRED: Refrigerated viral transport of epithelial scrapings

COLLECTION INSTRUCTIONS:

Nasopharyngeal wash+NP:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.
- 5. After or before doing the wash, use a dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area Place and cut or break the swab into the same vial as the wash. (Immunofluorescent testing is done on the epithelial cells the combination of both the wash and nasopharyngeal scraping are essential to obtain enough cells to perform the test.)

Alternate NP collection instructions:

- 1. Insert a type 1 (NP) dacron tipped, aluminum-shafted swab into nasopharyngeal passage for 1 minute.
- 2. Immediately following the removal of the swab roll the swab onto the center of a glass slide. Keep the area confined to the size of a dime. Do not leave any large clumps of mucous; spread the specimen out evenly over the dime size area. (This will make a maximum of 2 slides). Send to the lab immediately in glass slide holders
- 3. Repeat step 1 and cut or break the swab into viral transport medium or have the patient gargle 3mL of sterile saline for 10 seconds; expell the gargle into a sterile container. This is for a viral culture if the slide collection is poor or if the FA is negative. The culture is not performed if the FA is positive.

TUBE OR CONTAINER: Viral transport tube

ORDERING MODULE: MIC

TEST INCLUDES: Influenza A and B Direct EIA and respiratory

virus PCR if EIA is negative

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative METHODOLOGY: EIA & PCR

CLINICAL USE: Rapid identification of Influenza virus

[VISC] Blood Viscosity

SPECIMEN REQUIRED: Refrigerated serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days

REFERENCE RANGE: 1.6-1.9 relative to saline METHODOLOGY: Viscosimetry (Ostwald)

CLINICAL USE: Evaluate hyperviscosity syndrome associated with

monoclonal gammopathy state

CPT: 85810

[VISCBF] Body Fluid Viscosity

SPECIMEN REQUIRED: Refrigerated body fluid

TUBE OR CONTAINER: Sterile tube

SPECIAL HANDLING: Specify source of fluid

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-4 days METHODOLOGY: Viscometry

CLINICAL USE: Evaluate hyperviscosity syndrome associated with

monoclonal gammopathy state

CPT: 85810

[VITA] Vitamin A Level

SPECIMEN REQUIRED: Room temperature serum

TUBE OR CONTAINER: Red or Gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 8-10 days

REFERENCE RANGE: Age and gender specific

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Differential diagnosis of hypervitaminosis A

CPT: 84590

[VITB12] Vitamin B12 Level

SPECIMEN REQUIRED: Refrigerated or frozen serum. Can use Lithium

Heparin if not ordered with Folate.

TUBE OR CONTAINER: Lt Green, Gold or Red

SPECIAL HANDLING: Stable 2 hrs at room Temp, 48 hrs refrigerated

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours

REFERENCE RANGE: 231 - 1177 pg/mL

OTHER NAMES: B12; Cobalamin

METHODOLOGY: Electrochemiluminescence Immunoassay CLINICAL USE: Detect B12 deficiency as in pernicious anemia;

diagnose folic acid deficiency

CPT: 82607

[VITB1B] Whole Blood Vitamin B1 Level

SPECIMEN REQUIRED: Frozen whole blood TUBE OR CONTAINER: Lavender (EDTA) SPECIAL HANDLING: Freeze in original tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 10 days

REFERENCE RANGE: 66.5 - 200.0 nmol/L

OTHER NAMES: Thiamine

METHODOLOGY: High-pressure liquid chromatography (HPLC) with

fluorescence detection

CLINICAL USE: Important cofactor for the transketolation

reactions of the pentose phosphate cycle, which

provides pentose phosphate for nucleotide

synthesis and for the reduced NADP required for

various synthetic pathways

CPT: 84425

[VITB2] Vitamin B2 Level

SPECIMEN REQUIRED: Frozen whole blood TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Freeze immediately and protect from light

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily REFERENCE RANGE: 137-370 g/L

OTHER NAMES: Riboflavin

METHODOLOGY: High-pressure liquid chromatography (HPLC) with

fluorescence detector

CLINICAL USE: Detect riboflavin deficiency

CPT: 84252

[VITB3] VITAMIN B3/NIACIN METABOLITE

SPECIMEN REQUIRED: Frozen serum or plasma TUBE OR CONTAINER: Red, Lavender (EDTA)

SPECIAL HANDLING: Separate within 1 hour of collection

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1.0 mL

MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: Nicotinic Acid (Niacin) and Nicotinamide

TEST AVAILABILITY: Daily TURNAROUND TIME: 4-7 days

REFERENCE RANGE: Nicotinic Acid: 0.0-5.0 ng/mL

Nicotinamide: 5.2-72.1 ng/mL

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS) CPT: 82542

[VITB5] Pantothenic Acid Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Separate plasma from cells within 45 minutes

of collection; Protect from light (wrap

in foil)

Do NOT collect in gel barrier tube SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 12.9-253.1 ng/mL

OTHER NAMES: Pantothenic acid

METHODOLOGY: Liquid chromatography/tandem mass spectrometry

(LC/MS-MS) CPT: 84591

[VITB6] Vitamin B6 Level

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate and freeze immediately; protect

specimen from light

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE: Male: 5.3 - 46.7 ng/mL

Female: 2.0 - 32.8 ng/mL

OTHER NAMES: PLP; Pyridoxal 5-Phosphate; Pyridoxine

METHODOLOGY: High-pressure liquid chromatography (HPLC) with

electrochemical (EC) detection

CLINICAL USE: Detect vitamin B6 deficiency

CPT: 84207

[VITC] Vitamin C level

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Light Green (heparin)

SPECIAL HANDLING: Draw in chilled tube and place in ice

Protect specimen from light SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-7 days

REFERENCE RANGE: 0.4 - 2.0 mg/dL

OTHER NAMES: Ascorbic Acid

METHODOLOGY: High-pressure liquid chromatography (HPLC) with

electrochemical (EC) detection

CLINICAL USE: Evaluation of vitamin C deficiency

CPT: 82180

[VITD125] Vitamin D 1,25-Dihydroxy

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Gold, Lavender(EDTA), or Green(heparin)

SPECIAL HANDLING: No isotopes administered 24 hours prior to

venipuncture

SPECIMEN VOLUME: 0.5 mL

MINIMUM VOLUME: 0.3 mL (this volume does not allow for repeat

testing)

PEDIATRIC TEST INFO: Order PEDVITD125 for pediatric testing to

be performed by Esoterix

TEST AVAILABILITY: Daily TURNAROUND TIME: 3 days

REFERENCE RANGE: 19.9-79.3 pg/mL

OTHER NAMES: Calcitriol; 1,25-Dihydroxycholecalciferol;

1,25-Dihydroxy Vitamin D3; 1,25(OH)2 D3

METHODOLOGY: Immunochemiluminometric assay (ICMA)

CLINICAL USE: Aid in the diagnosis of hyperparathyroidism, hypo-

parathyroidism, pseudohypoparathyroidism, renal

osteodystrophy, vitamin D resistant rickets

CPT: 82652

[VITD25] 25-Hydroxy Vitamin D3

SPECIMEN REQUIRED: Refrigerated serum/plasma

TUBE OR CONTAINER: Red, Gold, Lt Green

SPECIMEN HANDLING: Specimen Stability: 8 hours-room temp

SPECIMEN VOLUME: 2.0 mL

MINIMUM VOLUME: 0.5 mL (this volume does not allow for repeat

testing)

TEST AVAILABILITY: Daily TURNAROUND TIME: 1 day

REFERENCE RANGE: 35.0 - 110.0 ng/mL

OTHER NAMES: Cholecalciferol Metabolite; 25-Hydroxycalciferol;

25-OH-D; Vitamin D3 Metabolite

METHODOLOGY: ELECTROCHEMILUMINESCENCE BINDING Assay

CLINICAL USE: Rule out vitamin D deficiency as cause of bone

disease; differential diagnosis of hypercalcemia

CPT: 82306

[VITK] Vitamin K Level

SPECIMEN REQUIRED: Frozen serum or plasma

TUBE OR CONTAINER: Red or Gold (preferred) or Lavender (EDTA)

SPECIAL HANDLING: Protect specimen from light

SPECIMEN VOLUME: 1.5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: 0-1 year: 0.13-3.37 ng/mL

2-17 years: 0.13-1.39 ng/mL >17 years: 0.13-1.88 ng/mL

OTHER NAMES: Phylloquinone; Phytonadione

METHODOLOGY: High-pressure liquid chromatography (HPLC) with

electrochemical (EC) detection

CLINICAL USE: Vitamin K deficiency may be induced by obstructive

liver disease, obstructive icterus, malabsorption due to celiac disease, pancreatitis, diarrhea, and antibiotic abuse; may be used to treat blood clotting disorders, bone metabolism disorders, and

hemorrhagic disorders of newborns

CPT: 84597

[VLCAD] VERY LONG CHAIN ACYL-COA DEHYD

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

REFERENCE RANGE: No mutation detected

METHODOLOGY: Polymerase Chain Reaction (PCR)

CPT: 81406

[VMEAFAI] MEASLES VIRUS FA + CULTURE

SPECIMEN REOUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash. (Immunofluorescent testing is done on the epithelial cells. The combination of both the wash and nasopharyngeal scraping are essential to obtain enough cells to perform the test.)

Alternate NP collection instructions:

- 1. Insert a type 1 (NP) dacron tipped, aluminum-shafted swab into nasopharyngeal passage for 1 minute.
- 2. Immediately following the removal of the swab roll the swab onto the center of a glass slide. Keep the area confined to the size of a dime. Do not leave any large clumps of mucous; spread the specimen out evenly over the dime size area. (This will make a maximum of 2 slides). Send to the lab immediately in glass slide holders
- 3. Repeat step 1 and cut or break the swab into viral transport medium or have the patient gargle 3 mL of sterile saline for 10 seconds; expell the gargle into a sterile container. This is for a viral culture if the slide collection is poor or if the FA is negative. The culture is not performed if the FA is positive.

TUBE OR CONTAINER: Viral tranport tube TEST INCLUDES: Measles FA and culture TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 1-14 days

METHODOLOGY: Cytopathic effect (CE); Fluorescent antibody (FA)

CPT: 87252; 87283

[VMEASVI] MEASLES SHELL VIAL + CULTURE

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash.

TEST AVAILABILITY: Daily

TURNAROUND TIME: 48-96 hours

CPT: 87254; 87252

[VMEAVC] MEASLE VIRUS CULTURE

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport

medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)

5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash.

TUBE OR CONTAINER: Viral transport media

TURNAROUND TIME: 1-14 Days

METHODOLOGY: Cytopathic Effect (CE)

[VMUMSVI] MUMPS SHELL VIAL + CULTURE

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash.

TUBE OR CONTAINER: Viral transport media TEST INCLUDES: Mumps Shell Vial & Culture TEST AVAILABILITY: Daily 48-96 hours

CPT: 87252; 87254

[VMUMVC] MUMPS CULTURE

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash.

TUBE OR CONTAINER: Viral transport media

TURNAROUND TIME: 1-14 Days

[VORIC] Voriconazole Level

SPECIMEN REQUIRED: Frozen serum

TUBE OR CONTAINER: Red

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-4 days

REFERENCE RANGE: 1.0-5.5 mcg/mL

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC-MS/MS)

CLINICAL USE: Therapeutic Drug Monitoring

CPT: 80299

[VPARVC] PARAINFLUENZA CULTURE

SPECIMEN REQUIRED: Any respiratory sample on ice

COLLECTION INSTRUCTIONS:

Nasopharyngeal wash+NP:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.
- 5. After or before doing the wash, use a dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area Place and cut or break the swab into the same vial as the wash.

THROAT:

Collect with viral swab. Refrigerate following collection and during transport.

TUBE OR CONTAINER: Viral transport tube

SPECIAL HANDLING: Indicate source of specimen;. Inclusion of

patient clinical history and differential diagnostic considerations is very helpful

ORDERING MODULE: MIC

TEST INCLUDES: Parainfluenza 1,2,3 & 4 culture ONLY

TEST AVAILABILITY: Monday-Saturday TURNAROUND TIME: < 96 hours for final

REFERENCE RANGE: No growth

METHODOLOGY: Culture

CLINICAL USE: Isolate and identify Parainfluenza

CPT: 87252

[vPCDEIA] EIA C. difficile

[vPCDIFF] PCR Clostridium difficile

SAMPLE SOURCE: Fresh, unformed stool, see following criteria.

Specimens should be liquid or soft and take the shape of the container.

Store the specimen at 2-8C until testing is performed. The specimen is stable for up to 5 days when stored at 2-8C. Only patients with diarrhea, defined as at least 3 unformed or watery stools in a 24-hour period, should be tested. Testing will be restricted to one specimen in 7 days. Testing will not be performed if the patient has had a positive C. difficile PCR in the past 30 days.

Usual sample volume: Greater than or = to a jelly bean Collect the unformed stool specimen in a clean container with

a tight fitting lid.

Send to the laboratory as soon as possible.

Alternatively, specimens can be kept at room temperature (20-30C) for up to 24 hours; this will not be routinely done, since it may affect other test ordered on the same specimen.

Rejection criteria: formed stools, rectal swabs and fluid

obtained at colonoscopy are not acceptable.

Turn Around Time: In by 7am to 3pm Out the same day

[VPCMV] CSF Cytomegalovirus DNA (PCR)

SPECIMEN REQUIRED: Frozen or refrigerated CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: Not detected OTHER NAMES: Cytomegalovirus DNA

METHODOLOGY: Real-time polymerase chain reaction (PCR)

CLINICAL USE: aid in the diagnosis of CMV infection

CPT: 87496

[VPCMVQ] CMV PCR QUANT BLOOD

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate plasma and freeze in plastic

container within 6 hours of collection. Do

NOT collect in green tube SPECIMEN VOLUME: 4 mL MINIMUM VOLUME: 3.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 7 days REFERENCE RANGE: Not detected

OTHER NAMES: Cytomegalovirus (CMV) quantitative (viral load)

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 87497

[vPCOV] SARS-CoV-2 PCR

[VPCTNGE] CHLAMYDIA/GC PCR EYE

[VPCTNGS] CHLAMYDIA/GC PCR SWAB

[VPCTNGU] CHLAMYDIA/GC PCR URINE

[VPEBV] CSF Epstein-Barr Virus DNA (PCR)

SPECIMEN REQUIRED: Frozen or refrigerated CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: Not detected

METHODOLOGY: Real-time polymerase chain reaction (PCR)

CLINICAL USE: aid in the diagnosis of infection with

Epstein-Barr virus (EBV)

CPT: 87798

[VPENT] ENTEROVIRUS PCR (CSF)

SPECIMEN REQUIREMENTS: .5ML OF CSF

SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN

AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

TUBE OR CONTAINER: CSF tube

ORDERING MODULE: MIC TEST AVAILABILITY: Daily TURNAROUND TIME: 36 hours REFERENCE RANGE: Not Detected

METHODOLOGY: Real-time PCR (Genexpert)

[VPGI] Biofire GI PCR Panel

Specimen: raw stool in sterile container or in Cary Blair transport medium, collection.

Turn around time: 24 hours Testing availability: 24/7 Methodology: PCR

Test Detects: Campylobacter spp. (C. jejuni, C. coli, &

C. upsaliensis)

Plesiomonas shigelloides

Salmonella spp.

Vibrio spp. (V. parahemolyticus, V. vulnificus,

V. cholerae)

Yersinia enterocolitica

Enteroaggregative E. coli (EAEC) Enteropathogenic E. coli (EPEC) Enterotoxigenic E. coli (ETEC) lt/st

Shiga-like toxin-producing E. coli(STEC) stx1/stx2

Shigella/Enteroinvasive E. coli (EIEC)

Adenovirus F 40/41

Astrovirus

Norovirus GI/GII

Rotavirus A

Sapovirus (Genogroups I, II, IV, & V)

Cyrptosporidium

Cylospora cayetanensis

Entamoeba histolytica

Giardia lymblia

Reference range: Not Detected

[VPHCVQ] HCV RNA (QUANTITATIVE)

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Separate plasma and freeze in plastic

container within 6 hours of collection. Do

NOT collect in green tube SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 3.5 mL

TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 7 days REFERENCE RANGE: Not detected

OTHER NAMES: Hepatitis C Virus RNA PCR, quantitative; Hepatitis

C Viral load; HCV Viral load

METHODOLOGY: Polymerase chain reaction (PCR)

CLINICAL USE: Detect and confirm hepatitis C virus infection

CPT: 87522

[VPHCVQG] HCV QUANT WITH GENOTYPE

SPECIMEN REQUIRED: Frozen plasma

TUBE OR CONTAINER: Lavender-tall (EDTA) SPECIAL HANDLING: Collect 4 Lavender tubes

Separate plasma and freeze in plastic container within 6 hours of collection. Do

NOT collect in green tube SPECIMEN VOLUME: 10 mL MINIMUM VOLUME: 6.5 mL

TEST INCLUDES: Quantitative HCV and HCV genotype when

quantitation values are > 100 IU/mL TEST AVAILABILITY: Monday-Friday

TURNAROUND TIME: 7 days

OTHER NAMES: Hepatitis C Virus RNA PCR, quantitative with

reflex to genotyping; HCV Viral load with reflex

to genotyping

METHODOLOGY: Polymerase chain reaction (PCR) and Fluorescence

Resonance Energy Transfer (FRET), Genotypes 1-6

CLINICAL USE: Detect and confirm hepatitis C virus infection

CPT: 87522; 87902

[VPHHV6] CSF Herpesvirus 6 DNA (PCR)

SPECIMEN REQUIRED: Frozen or refrigerated CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: Not detected

METHODOLOGY: Real-time polymerase chain reaction (PCR) CLINICAL USE: aid in the diagnosis of infection with human

herpesvirus 6 (HHV-6)

CPT: 87532

[VPHSV] HERPES SIMPLEX PCR (CSF)

SPECIMEN REQUIREMENTS: 0.5ML OF CSF SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

[VPHSVO] HERPES SIMPLEX PCR (Non-CSF)

SPECIMEN REQUIREMENTS: 0.5ML OF CSF SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

[vPIAD] ADENOVIRUS PCR

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash. (Immunofluorescent testing is done on the epithelial cells. The combination of both the wash and nasopharyngeal scraping are essential to obtain enough cells to perform the test.)

Alternate NP collection instructions:

- 1. Insert a type 1 (NP) dacron tipped, aluminum-shafted swab into nasopharyngeal passage for 1 minute.
- 2. Cut or break the swab into viral transport medium.

Trachial Aspirates

The aspirate can be put in viral transport medium

Refrigerate following collection and during transport.

NP swab: Collect with rayon or Dacron wire swab; place swab into viral transport media tube. Refrigerate following collection and during transport.

TUBE OR CONTAINER: Viral transport media TEST AVAILABILLTIY: Sunday-Saturday

TURNAROUND TIME: 24 hours

METHODOLOGY: PCR- Flim Array Technology

[VPLABC] LIAT INFLUENZA A/B COVID PCR

SPECIMEN: Epithelial scrapings using a flocked swab and sent in

Viral transport system.

Collection instructions:

- 1. Instruct the patient to blow their nose.
- 2. Place the patient in a seated position with head against a fixed object (e.g. a wall) to prevent the patient from pulling away during this procedure.
- 3. Tilt the patient's head back at a 70 degree angle
- 4. Insert the flocked swab into one nostril straight back (not upwards) and continue along the floor of the nasal passage for several centimeters until reaching the nasopharynx (resistance will be met).
- a. The distance from the nose to the ear gives an estimate of the distance the swab should be inserted.
- b. Do not force the swab, if obstruction is encountered before reaching the nasopharynx, remove the swab and try the other nostril.
- 5. Rotate the swab gently for 5-10 seconds to loosen the epithelial cells.
- 6. Remove the swab and immediately insert the swab into the transport media tube, placing the swab head at least inch below the surface of the media. Break the swab shaft by bending until it snaps and leave the swab in the tube.

Attach the cap securely.

Unacceptable Specimens:

Nasal Washes, Nasal specimens or specimens collected with Calcium alginate, cotton, rayon, foam swabs or dry swabs not in transport media are not recommended for PCR.

Nasopharyngeal Washes.

ORDERING MODULE: MIC TEST AVAILABILITY: 24/7

TURNAROUND TIME: REFERENCE RANGE: Not Detected/Negative

METHODOLOGY: PCR

CPT 87636

[VPLABR] RSV and Influenza A/B LIAT PCR

CPT - 87502

SPECIMEN REQUIRED: Viral transport of epithelial scrapings NP SWAB COLLECTION INSTRUCTIONS:

1. Instruct the patient to blow their nose.

- 2. Place the patient in a seated position with head against a fixed object (e.g. a wall) to prevent the patient from pulling away during this procedure.
- 3. Tilt the patient's head back at a 70 degree angle
- 4. Insert the swab into one nostril straight back (not upwards) and continue along the floor of the nasal passage for several centimeters until reaching the nasopharynx (resistance will be met).
- a. The distance from the nose to the ear gives an estimate of the distance the swab should be inserted.
- b. Do not force the swab, if obstruction is encountered before reaching the nasopharynx, remove the swab and try the other nostril.
- 5. Rotate the swab gently for 5-10 seconds to loosen the epithelial cells.
- 6. Remove the swab and immediately insert the swab into the transport media tube, placing the swab head at least inch below the surface of the media. Break the swab shaft by bending until it snaps and leave the swab in the tube. Attach the cap securely.

Unacceptable Specimens:

Nasal Washes, Nasal specimens or specimens collected with Calcium alginate, cotton, rayon, foam swabs or dry swabs not in transport media are not recommended for PCR. Nasopharyngeal Washes.

Transport on wet ice.

TUBE OR CONTAINER: UTM Viral transport tube

ORDERING MODULE: MIC

TEST INCLUDES: RSV; Influenza A & B

TEST AVAILABILITY: Daily TURNAROUND TIME:< 1 hour

REFERENCE RANGE: "Not Detected", (Negative)

METHODOLOGY: Real-time PCR, no confirmatory test needed. CPT - 87502

SPECIMEN REQUIRED: Viral transport of epithelial scrapings NP SWAB COLLECTION INSTRUCTIONS:

- 1. Instruct the patient to blow their nose.
- 2. Place the patient in a seated position with head against a fixed object (e.g. a wall) to prevent the patient from pulling away during this procedure.
- 3. Tilt the patient's head back at a 70 degree angle
- 4. Insert the swab into one nostril straight back (not upwards) and continue along the floor of the nasal passage for several centimeters until reaching the nasopharynx (resistance will be met).
- a. The distance from the nose to the ear gives an estimate of the distance the swab should be inserted.
- b. Do not force the swab, if obstruction is encountered before reaching the nasopharynx, remove the swab and try the other nostril.
- 5. Rotate the swab gently for 5-10 seconds to loosen the

epithelial cells.

6. Remove the swab and immediately insert the swab into the transp

[VPR20C] Respiratory PCR20 + COVID

[VPRSV] RSV PCR

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash. (Immunofluorescent testing is done on the epithelial cells. The combination of both the wash and nasopharyngeal scraping are essential to obtain enough cells to perform the test.)

Alternate NP collection instructions:

- 1. Insert a type 1 (NP) dacron tipped, aluminum-shafted swab into nasopharyngeal passage for 1 minute.
- 2. Immediately following the removal of the swab roll the swab onto the center of a glass slide. Keep the area confined to the size of a dime. Do not leave any large clumps of mucous; spread the specimen out evenly over the dime size area. (This will make a maximum of 2 slides). Send to the lab immediately in glass slide holders
- 3. Repeat step 1 and cut or break the swab into viral transport medium or have the patient gargle 3 mL of sterile saline for 10 seconds; expell the gargle into a sterile container. This is for a viral culture if the slide collection is poor or if the FA is negative. The culture is not performed if the FA is positive.

The aspirate can be put in viral transport medium and used for culture backup. Culture backup for adults requires a throat swab or gargle placed in viral transport medium. If FA is positive the culture is not performed. Select any 2 viruses to be tested for: RSV, Parainfluenza virus, Influenza A/B, Adenovirus. Influenza A and B can be tested for separately or pooled. Draw up 1-2 mL sterile saline into a 3-5 mL syringe. Attach 2 inches of 18-20 guage tubing to syringe tip. Insert tube end into nostril. Quickly instill saline into nostril. Aspirate the recoverable nasal specimen. Inject nasal specimen from syringe

into viral transport media tube. Refrigerate following

collection and during transport.

NP swab: Collect with rayon or Dacron wire swab; place swab into

viral transport media tube. Refrigerate following collection

and during transport.

TUBE OR CONTAINER: Viral transport media TEST AVAILABILLTIY: Monday-Saturday

TURNAROUND TIME: 24 hours

METHODOLOGY: Direct fluorescent antibody (DFA)

[VPRUBELLARNAQU] RUBELLA VIRUS RNA PCR QL

[VPTV] Trichomonas vaginalis PCR

[VPVAG] BD MAX VAGINAL PANEL PCR

SPECIMEN REQUIRED: Vaginal swab (taken before exam) in BD MAX

UVE buffer tube.

SPECIAL HANDLING: Transport without delay to the laboratory or

keep refrigerated until transported to lab Limited to 1 specimen every 24 hours.

ORDERING MODULE: MIC

TEST INCLUDES: PCR detetection of Trichomonas vaginalis, Candida

albicans, C. parapsilosis, C. tropicalis,

C. dubliniensis, C. glabrata, C. krusei, and

bacteria associated with normal vaginal flora and

bacterial vaginosis.

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Not detected

METHODOLOGY: PCR

CLINICAL USE: Detection of Trichomonas vaginalis, Candida spp.,

agents of vaginosis or normal vaginal flora.

[VPVZ] Varicella-Zoster Virus DNA (PCR)

SPECIMEN REQUIRED: Frozen or refrigerated CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.2 mL TEST AVAILABILITY: Daily

TURNAROUND TIME:

REFERENCE RANGE: Not detected

METHODOLOGY: Real-time polymerase chain reaction (PCR) CLINICAL USE: aid in the diagnosis of infections caused by

varicella zoster virus (VZV)

CPT: 87798

[VPVZV] DiaSorin Varicella Zoster PCR

SPECIMEN REQUIRED: Scraping of lesion using flocked swab SPCECIAL HANDLING: Place swab into Viral transport system and

transport on ice. Specimens can be stored at 2 to 8 C up to 7 days or longer if stored

at ORDERING MODULE: MIC

TEST INCLUDES: Direct amplification and detection of Varicella

Zoster virus by PCR.

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Not detected

METHODOLOGY: PCR

CLINICAL USE: Detection of Varicella Zoster Viral DNA directly

from cutaneous or mucocutaneous lesions.

CPT code: 87798

[VPXMTB] Xpert MTB-Rifampin PCR

SPECIMEN REQUIRED: Raw sputum, 2ml (minimum 1 ml)

SPECIAL HANDLING: Transport and store specimens at 2-8 degrees

C. Specimens can be stored at room temp for up to 3 days or at 2-8 degrees C up to 10 days

ORDERING MODULE: MIC

TEST INCLUDES: PCR detetection of Mycobaterium tuberculosis

complex DNA and detection of mutations in the rpoB gene (indication rifampin resistance) by PCR

TEST AVAILABILITY: Daily TURNAROUND TIME: 24 hours REFERENCE RANGE: Not detected

METHODOLOGY: PCR

CLINICAL USE: Detection of M. tuberculosis complex DNA and

rifampin resistance directly from raw sputum

specimens.

[VPXSF] Cepheid XpertPlus SARS A/B PCR

[VPXSFR] Cepheid XptPlus SARS Flu RSV

[VRHIVC] RHINOVIRUS CULTURE

SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a Dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and cut or break the swab into the same vial as the wash.

TUBE OR CONTAINER: Viral transport media

TURNAROUND TIME: 1-14 DAYS

TEST INCLUDES: Rhinovirus culture ONLY

[VRSVABPR20] RSV, FLU A/B (EIA/RESP.PCR20)

SPECIMEN REQUIRED: Refrigerated viral transport of epithelial scrapings

COLLECTION INSTRUCTIONS:

Nasopharyngeal wash+NP:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.
- 5. After or before doing the wash, use a dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area Place and cut or break the swab into the same vial as the wash. (Immunofluorescent testing is done on the epithelial cells the combination of both the wash and nasopharyngeal scraping are essential to obtain enough cells to perform the test.)

Alternate NP collection instructions:

- 1. Insert a type 1 (NP) dacron tipped, aluminum-shafted swab into nasopharyngeal passage for 1 minute.
- 2. Immediately following the removal of the swab roll the swab onto the center of a glass slide. Keep the area confined to the size of a dime. Do not leave any large clumps of mucous; spread the specimen out evenly over the dime size area. (This will make a maximum of 2 slides). Send to the lab immediately in glass slide holders
- 3. Repeat step 1 and cut or break the swab into viral transport medium or have the patient gargle 3mL of sterile saline for 10 seconds; expell the gargle into a sterile container. This is for a viral culture if the slide collection is poor or if the FA is negative. The culture is not performed if the FA is positive.

TUBE OR CONTAINER: Viral transport tube

ORDERING MODULE: MIC

TEST INCLUDES: Influenza A and B Direct EIA and respiratory

viral PCR if EIA is negative

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative METHODOLOGY: EIA & PCR

CLINICAL USE: Rapid identification of Influenza virus

SPECIMEN REQUIRED: Any respiratory specimen on ice COLLECTION INSTRUCTIONS:

Nasopharyngeal wash+NP:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. If viral transport medium is not available, the NP wash may be added to 1.0 mL of trypticase soy broth or sterile saline.
- 5. After or before doing the wash, use a dacron NP swab to do a good epithelial cell scraping of the nasopharyngeal area Place and cut or break the swab into the same vial as the wash.

TUBE OR CONTAINER: Viral transport media

SPECIAL HANDLING: Indicate source of specimen; Inclusion of

patient's clinical history and differential diagnostic considerations is very helpful.

Deliver to lab immediately ORDERING MODULE: MIC TEST INCLUDES: Culture ONLY

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 10-12 days REFERENCE RANGE: No growth

METHODOLOGY: Cytopathic Effect (CPE)

CLINICAL USE: Isolate and identify Respiratory syncytial virus

CPT: 87252

[VVCEY] VIRAL CULTURE EYE

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: PALPEBRAL CONJUNCTIVA (EYE SWAB)

Agent Suspected: Herpes simplex virus, Adenovirus, Enterovirus

Unacceptable Specimens: Eye exudate is considered a poor

specimen and should be noted in Meditech.

Usual Sample Volume: Good epithelial cell scraping

Collection Device: Viral Transport Media, Flocked tip swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday

Out-By Time (Report): Negative cultures are kept 10-14 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE) Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVCGEN] VIRAL CULTURE GENITAL

SAMPLE SOURCE: CERVICAL SWABS Agent Suspected: Herpes simplex virus

Unacceptable Specimens: N/A

Usual Sample Volume: Good epithelial cell scraping of base of

lesion

Collection Device: Viral Transport Media, Flocked tip swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1600 M-F, 1200 Saturday-Sunday Out-By Time (Report): Negative cultures are kept 7 days,

all positive cultures are telephoned.

Detection Method: Cell Culture Cytopathic Effect (CPE)

Comments:

Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVCLE] VIRAL CULTURE SKIN/VES/LES/PET

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: SWABS OF VESICLE FLUID AND BASE OF VESICLES OR LESIONS for Herpes simplex virus or Enterovirus

Agent Suspected: Herpes simplex virus, Enterovirus

Unacceptable Specimens: N/A

Usual Sample Volume: Good epithelial cell scraping of base of

lesion

Collection Device: Viral Transport Media, Flocked tip swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1600 M-F, 1200 Saturday-Sunday Out-By Time (Report): Negative cultures are kept 7-10 days,

all positive cultures are telephoned.

Detection Method: Cell Culture Cytopathic Effect (CPE)

Comments:

Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

Swab of Vesicle Fluid and Base of Vesicle: Wash area with 70%

alcohol, unroof the vesicle with a small needle, gently blot

the vesicular fluid with a swab; using the same swab, scrape

the base of the vesicle and place the swab in the vial of transport medium.

IF REQUESTING IN OE, ORDER AS A VVZVC.

SAMPLE SOURCE: PERCUTANEOUS NEEDLE ASPIRATION WITH A 1 ML

SYRINGE CONTAINING 0.2 ML VIRAL TRANSPORT MEDIA.

Agent Suspected: Varicella zoster

Sub-optimal Specimens: Swabs of vesicle Usual Sample Volume: Vesicular Fluid

Collection Device: Cell culture tubes obtained in Virology

Turn Around Times:

In-By Time (Cut-off): 1600 M-F, 1200 Saturday-Sunday

Out-By Time (Report): Negative cultures are kept 10-14 days,

all positive cultures are telephoned.

Detection Method: Cell Culture Cytopathic Effect (CPE)

Comments: On weekends, contact the ID Doctor on call. (See

Viral FA, Antigen Detection Specimen Collection)

Send back to lab immediately at room temperature to go into the incubator.

[VVCMO] VIRAL CULTURE MOUTH

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: MOUTH/THROAT SWABS Agent Suspected: Herpes simplex virus, Adenovirus,

Enterovirus, CMV

Unacceptable Specimens: N/A

Usual Sample Volume: Good epithelial cell scraping of mouth

ulcerations

Collection Device: Viral Transport Media, Flocked tip swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday

Out-By Time (Report): Negative cultures are kept 10-21 days,

based on agent supected, all positive ultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE)

Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVCNOS] VIRAL CULTURE NOS NONRESP.

USE THIS ORDER FOR A VIRAL CULTURE NOS NONRESPIRATORY.

Make sure to list the specimen source and description.

Include the viral agent suspected.

All swabs must be placed in viral transport medium.

Non swab specimens are sent in sterile containers.

Turn around time will vary by agent suspected, 7-21 days

All positive results are called immediately.

[VVCRESP] VIRAL CULTURE RESPIRATORY

IF REQUESTING IN OE, ORDER AS A VVCRESP. SPECIMEN REQUIRED:

Nasopharyngeal wash+NP instructions:

- 1. Draw up 1-2 mL of sterile saline into a 3-5 mL syringe.
- 2. Remove the needle from the syringe and put on a butterfly with a large tubing. Cut the tubing to a length of 2-3".
- 3. Place the tubing in the nasopharyngeal passage. Inject the saline rapidly and draw back rapidly.
- 4. Inject saline and nasal material into the viral transport medium. (If viral transport medium is not available, the NP+ wash may be added to 1.0 mL of trypticase soy broth or sterile saline.)
- 5. After or before doing the wash, use a flocked swab to do a good epithelial cell scraping of the nasopharyngeal area. Place and break the swab into the same vial as the wash

Alternate NP collection instructions:

1. Insert a flocked swab into the nasopharyngeal passage for

1 minute.

2. Break the swab into the viral transport media.

Gargle

Have the patient gargle 3 mL of sterile saline for

10 seconds; expell the gargle into a sterile container.

send to the lab immdiately on ice.

TUBE OR CONTAINER: Viral transport media

TEST INCLUDES: RSV; Parainfluenza 1, 2, & 3; Influenza A & B;

Adenovirus, Herpes Simplex, Rhinovirus; Enterovirus; and

Cytomegalovirus

TURNAROUND TIME: 1-14 Days

[VVCSL] VIRAL CULTURE STOOL

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: STOOL

Agent Suspected: Enterovirus, Adenovirus, CMV

Unacceptable Specimens: Diapers, dried out stool, specimens

that are soaked into wooden sticks

Usual Sample Volume: Stool specimen greater or equal to jelly

bean size

Minimum Sample Volume: Pea size Collection Device: Sterile container

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday

Out-By Time (Report): Negative cultures are kept 10-14 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE)

Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

SAMPLE SOURCE: RECTAL SWAB Agent Suspected: Enterovirus, Adenovirus

Unacceptable Specimens: N/A

Usual Sample Volume: Feces should be visible in viral

transport media

Collection Device: Viral Transport Media, Flocked swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday

Out-By Time (Report): Negative cultures are kept 10-14 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE)

Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVCTH] VIRAL CULTURE THROAT

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: THROAT SWABS

Agent Suspected: Herpes simplex virus, Adenovirus,

Enterovirus, CMV

Unacceptable Specimens: N/A

Usual Sample Volume: Good epithelial cell scraping of throat Collection Device: Viral Transport Media, Flocked tip swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday

Out-By Time (Report): Negative cultures are kept 10-21 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE) Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVCTIS] VIRAL CULTURE TISSUE

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: AUTOPSY, BIOPSY (Please notify lab in advance on

biopsy specimens)

Agent Suspected: Request specific viral agents on slip.

Unacceptable Specimens: N/A Usual Sample Volume: 1 cm2

Minimum Sample Volume: Whatever is possible.

Collect according to standard procedures Collection Device: Viral Transport Media

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday Out-By Time (Report): Negative cultures are kept 10-21 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE) Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVCUR] VIRAL CULTURE URINE

IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: URINE

Agent Suspected: CMV (If for Adenovirus, indicate or it will not be set up in culture for the detection of Adenovirus)

Unacceptable Specimens: Do not freeze urine.

Usual Sample Volume: 10-15 mL of freshly voided urine

Minimum Sample Volume: 1 mL Collection Device: Sterile Container

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday Out-By Time (Report): Negative cultures are kept 10-21 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE) Comments: Please note on request if specimen is for Mumps

or Adenovirus. (Mumps request are referred out.)

Store at 2 C to 8 C.

[VVCVAG] VIRAL CULTURE VAGINAL

USE THIS ORDER FOR A VIRAL VAGINAL CULTURE. IF REQUESTING IN OE, ORDER AS A VC.

SAMPLE SOURCE: VAGINAL

Agent Suspected: Enterovirus, Herpes simplex virus, Adenovirus

Varicella zoster

Unacceptable Specimens: N/A

Usual Sample Volume: Good epithelial cell scraping of the

vaginal area

Collection Device: Viral Transport Media, Flocked tip swab,

plastic shaft

Turn Around Times:

In-By Time (Cut-off): 1700 M-F, 1200 Saturday-Sunday Out-By Time (Report): Negative cultures are kept 10-14 days,

all positive cultures are telephoned immediately.

Detection Method: Cell Culture Cytopathic Effect (CPE) Comments: Please note on request any other viruses that are

suspected. Store at 2 C to 8 C.

[VVZFA] VARICELLA ZOSTER FA

USE THIS ORDER FOR A VIRAL SKIN, LESION, VESICLE, FA. (CALL 3586 FOR ANY QUESTIONS ON COLLECTION.)

SPECIMEN REQUIRED:

- 1. PICK FRESHEST VESICLE.
- 2. COLLECT CULTURE FIRST, 1CC SYRINGE AND CELL CULTURE TUBE OBTAINED FROM VIROLOGY. M-F 7AM-5PM AND 10AM TO 12PM SAT.
- 3. UNROOF VESICLE WITH #15 BARD-PARKER SCAPLE.
- 4. SCRAPE THE BASE OF THE VESICLE (OBTAIN BASAL AND PARABASAL CELLS).
- 5. IN THE CENTER OF 2 GLASS SLIDES SMEAR THE SPECIMEN IN A CIRCULAR MOTION OUT TO THE SIZE OF A DIME.
- 6. AIR DRY AND TRANSPORT TO THE LAB IMMEDIATELY. KEEP REFRIGERATED.

TUBE OR CONTAINER: Slides

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 24 hours NORMAL TEST VALUES: Negative

METHODOLOGY: DFA

[VVZFAI] VARICELLA ZOSTER FA + CULTURE

SPECIMEN REQUIRED: Refrigerated specimen COLLECTION INSTRUCTIONS:

- 1. Pick freshest vesicle
- 2. Collect culture first, aspirate the fluid from the vesicle into the tuberculin syringe and inject it into the cell culture tubes. Obtain collection materials from Virology M-F 7 am to 5 pm and Saturday 10 am to 12 pm.
- 3. Unroof vesicle with #15 Bard-Parker scalpel.
- 4. Scrape the base of the vesicle (obtain basal and parabasal cells).
- 5. In the center of 2 glass slides smear the specimen in a circular motion out to the size of a dime.
- 6. Air dry and transport to the lab immediately

If Virology is closed use following method for VZ culture only.

- 1. Unroof vesicle with #15 Bard-Parker scalpel.
- 2. Scrape the base of the vesicle (obtain basal and parabasal cells) with a NP/male swab.
- 3. Break swab in to viral transport media.
- 4. Transport to the lab immediately

TUBE OR CONTAINER: Viral transport media

SPECIAL HANDLING: Call 271-3586 for collection materials and

questions about specimen collection

ORDERING MODULE: MIC

TEST INCLUDES: VZV FA and viral culture; if FA is positive,

culture is not performed

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 24 hours REFERENCE RANGE: Negative

METHODOLOGY: Direct fluorescent antibody (DFA) CLINICAL USE: Rapid diagnosis of varicella-zoster virus

CPT: 87252; 87290

[VVZPCR] VARICELLA ZOSTER PCR

SPECIMEN REQUIREMENTS: 1ML OF CSF SPECIMENS MUST BE SENT TO THE LAB IMMEDIATELY AND FROZEN AT -70 C IN LESS THAN 6 HOURS OF COLLECTION.

[VVZSVI] VARICELLA ZOSTER SV + CULTURE

SPECIMEN REQUIRED:

- 1. Pick freshest vesicle
- 2. Collect culture first, aspirate the fluid from the vesicle into the tuberculin syringe and inject it into the cell culture tubes. Obtain collection materials from Virology

M-F 7 am to 5 pm and Saturday 10 am to 12 pm.

- 3. Unroof vesicle with #15 Bard-Parker scalpel.
- 4. Scrape the base of the vesicle (obtain basal and parabasal cells).
- 5. In the center of 2 glass slides smear the specimen in a circular motion out to the size of a dime.
- 6. Air dry and transport to the lab immediately. Keep refrigerated.

If Virology is closed use following method for VZ culture only.

- 1. Unroof vesicle with #15 Bard-Parker scalpel.
- 2. Scrape the base of the vesicle (obtain basal and parabasal cells) with a NP/male swab.
- 3. Break swab in to viral trasnport media.
- 4. Transport to the lab immediately. Keep refrigerated.

TUBE OR CONTAINER: Viral transport media

SPECIAL HANDLING: Call 271-3586 for collection materials and

questions about specimen collection

TEST AVAILABILITY: Monday-Saturday

TURNAROUND TIME: 48-96 hours

METHODOLOGY: Shell vial

CPT: 87252; 87254

[VVZVC] VARICELLA ZOSTER CULTURE

SPECIMEN REQUIRED: Refrigerated specimen COLLECTION INSTRUCTIONS:

- 1. Pick freshest vesicle
- 2. Collect culture first, aspirate the fluid from the vesicle into the tuberculin syringe and inject it into the cell culture tubes. Obtain collection materials from Virology M-F 7 am to 5 pm and Saturday 10 am to 12 pm.

If Virology is closed use following method for VZ culture only.

- 1. Unroof vesicle with #15 Bard-Parker scalpel.
- 2. Scrape the base of the vesicle (obtain basal and parabasal cells) with a NP/male swab.
- 3. Break swab in to viral transport media.
- 4. Transport to the lab immediately. Keep refrigerated. SOURCE:

VESICLE FLUID: Collect specimen with viral culture swab; refrigerate following collection and during transport. LUNG TISSUE: Submit lung biopsy material in sterile screw-cap

container. Add a small amount of sterile saline to prevent drying. Do not add formalin; if pathology exam is ordered also, submit separate specimen.

TUBE OR CONTAINER: Viral transport media

SPECIAL HANDLING: Indicate source of specimen; inclusion of

patient's clinical history and/or differential

diagnostic considerations is very helpful;

Call 271-3586 for collection materials and

questions about specimen collection ORDERING MODULE: MIC

TEST INCLUDES: VZV culture ONLY

TEST AVAILABILITY: Set up Monday-Saturday

TURNAROUND TIME: 10 days REFERENCE RANGE: No growth

METHODOLOGY: Cytopathic Effect (CPE)

CLINICAL USE: Aid in diagnosis of disease caused by varicella-

zoster virus (ie, chickenpox and shingles)

CPT: 87252

[VW2N] VON WILLEBRAND TYPE 2N BINDING

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 3 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 3 full tubes

Testing specimen: 3 transport tubes with 1 mL

plasma each

MINIMUM VOLUME: 2 full tubes

Testing specimen: 3 transport tubes with 0.5 ml

plasma each

TEST INCLUDES: vw Factor antigen and vw Type 2N binding

TEST AVAILABILITY: Daily TURNAROUND TIME: 8-12 days

METHODOLOGY: Enzyme-linked immunoassay (ELISA); Chromogenic

CPT: 85246; 85240

[VWAG] von Willebrand Factor Antigen

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube
Testing volume: 1 mL of PLASMA
MINIMUM VOLUME: 1 full tube
Testing volume: 0.5 mL of PLASMA
TEST AVAILABILITY: Monday-Friday
TURNAROUND TIME: 7-10 days
REFERENCE RANGE: 50-240%

CLINICAL USE: A coagulation parameter useful in the

differential diagnosis of hemophilia A and von

Willebrand disease

CPT: 85246

[VWFPROPAG] von Willebrand Factor Antigen

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA TEST AVAILABILITY: Monday-Friday TURNAROUND TIME: 8-12 days

REFERENCE RANGE: 62-183 IU/dL

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA) with

fluorescence detection

CPT: 85246

[VWM] von Willebrand Factor Multimers

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 2 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 2 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 1 mL of PLASMA TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days

REFERENCE RANGE: < 0.4 inhibitor units

OTHER NAMES; vWF Multimers METHODOLOGY: Electrophoresis

CPT: 85247

[VWR] von Willebrand Ristocetin Cofactor

SPECIMEN REQUIRED: Frozen plasma TUBE OR CONTAINER: Blue (Citrate)

SPECIAL HANDLING: Draw 1 FULL citrate tube; tube must be filled

to the fill line to ensure proper anti-

coagulant to blood ratio; Invert gently 3-4

times to prevent clotting

Send to lab immediately or centrifuge and

freeze plasma

SPECIMEN VOLUME: 1 full tube Testing volume: 1 mL of PLASMA MINIMUM VOLUME: 1 full tube Testing volume: 0.5 mL of PLASMA TEST AVAILABILITY: Daily

TEST AVAILABILITY: Daily TURNAROUND TIME: 7-10 days REFERENCE RANGE: 54-279%

OTHER NAMES: Ristocetin Cofactor; vW Factor Assay; von

Willebrand Factor (vWF) Activity

CLINICAL USE: Aid with the differential diagnosis between

hemophilia and von Willebrand disease

CPT: 85245

[VZVGCSF] CSF Varicella-Zoster IgG Antibody

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: 134 IV or less: Negative

135-165 IV: Equivocal 166 IV or greater: Positive

METHODOLOGY: Semi-quantitative Chemiluminescent Immunoassay

CPT: 86787

[VZVMCSF] CSF Varicella-Zoster IgM Antibody

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile CSF container

SPECIMEN VOLUME: 0.5 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-6 days

REFERENCE RANGE: 0.90 ISR or less: Negative

0.91-1.09 ISR: Equivocal 1.10 ISR or greater: Positive

METHODOLOGY: Enzyme-linked immunosorbent assay (ELISA)

CPT: 86787

[VZVPCRQNT] Varicella-Zoster Virus DNA (PCR)

SPECIMEN REQUIRED: Plasma, bronchial lavage/wash, skin/eye swab,

tracheal aspirate/wash at room temperature/

frozen

Frozen tissue, CSF, aqueous or vitreous fluid

TUBE OR CONTAINER: Lavender (EDTA) or Yellow (ACD), Sterile

container or screw top tube

SPECIAL HANDLING: Please specify source of specimen.

Specimens at room temperature must be received at performing lab within 4 days of collection; Freeze if time exceeds 4 days

SPECIMEN VOLUME: 2 mL plasma, CSF or respiratory specimens

5 mg tissue

0.5 mL vitreous/aqueous fluid

1 Swab

MINIMUM VOLUME: 0.5 mL plasma, CSF or respiratory specimens

0.1 mL vitreous/aqueous fluid TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 days REFERENCE RANGE: Not detected

METHODOLOGY: Reverse Transcription/Polymerase Chain Reaction

(PCR-RT) CPT: 87799

[WAARD2] WAARDENBURG SYNDROME 2 (MITF)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily

OTHER NAMES: MITF Gene sequencing

METHODOLOGY: Polymerase chain reaction (PCR)

CPT: 81479

[WAARDNGS] WAARDENBURG SYNDROME NGS

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Gene sequencing of six genes (PAX3, MITF, SNA12,

SOX10, EDN3 and EDNRB) associated with Waardenburg Syndrome types 1, 2, 3 & 4

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: NextGen sequencing (NGS)

CPT: 81479 x 6

[WARF] Warfarin (Coumadin) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red, Dark green (heparin) or Lavender (EDTA) SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 2.0-5.0 ug/mL

Potentially toxic: >10.0 ug/mL

OTHER NAMES: Coumadin; Jantoven

METHODOLOGY: High-pressure liquid chromatography (HPLC)

CPT: 80299

[WASQR] Alpha Globin Gene Sequence

[WBDDR] Beta Globin Cluster Locus Interp

[WBSQR] Beta Globin Gene Sequencing

[WES] WHOLE EXOME SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Sequencing of the protein-coding regions of the

human genome, which represents ~20,000 genes and

accounts for approximately ~2% of all human

genetic material

TEST AVAILABILITY: Daily

TURNAROUND TIME: 15-16 weeks

METHODOLOGY: Exome Capture and Next Generation Sequencing

CPT: 81415

[WESNIL] AB WEST NILE VIRUS

SPECIMEN REQUIRED: Frozen serum TUBE OR CONTAINER: Red or gold

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL

TEST INCLUDES: West Nile IgG and IgM

TEST AVAILABILITY: Daily TURNAROUND TIME: 5-8 days REFERENCE RANGE: Negative

METHODOLOGY: Enzyme Immunoassay (EIA)

CLINICAL USE: Support a diagnosis of West Nile virus infection

CPT: 86788; 86789

[WESNILMSH] West Nile Virus IgM Antibody

[WESTNILPCR] West Nile Virus RNA (RT-PCR)

SPECIMEN REQUIRED: Frozem serum or plasma

TUBE OR CONTAINER: Gold, Red, Lavender (EDTA) or Yellow (ACD)

SPECIMEN VOLUME: 3.5 mL MINIMUM VOLUME: 2.5 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Negative

METHODOLOGY: UltraQual polymerase chain reaction (PCR)

CLINICAL USE: Detect West Nile virus (WNV) RNA

CPT: 87798

[WFSSEQ] WOLFRAM SYNDROME SEQUENCING

SPECIMEN REQUIRED: Whole Blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Sequencing of WSF1 and CISD2 genes

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479 x 2

[WGSQR] Gamma Globin Gene Sequence Result

[WHIPPLE] TROPH WHIPPLEI PCR BLOOD

SPECIMEN REQUIRED: EDTA plasma or serum, Formalin-fixed

paraffin embedded (FFPE) tissue.

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 1 ml MINIMUM VOLUME: 0.5 mL REFERENCE RANGE: Negative

METHODOLOGY: Qualitative Polymerase Chain Reaction (PCR) CLINICAL USE: Aid in diagnosis of Whipple's disease, especially

for identifying inconclusive or suspicious cases

CPT: 87798

[WHIPPLEPCR] TROPH WHIPPLEI PCR FLD/TISSUE

SPECIMEN REQUIRED: Refrigerated CSF, synovial or vitreous

fluid; frozen fresh tissue or paraffin block

at room temperature

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 1 ml (fluid)

5 mm (biopsy)

MINIMUM VOLUME: 0.5 mL (fluid)

TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days REFERENCE RANGE: Negative

METHODOLOGY: Rapid Polymerase Chain Reaction (PCR) CLINICAL USE: Aid in diagnosis of Whipple's disease, especially

for identifying inconclusive or suspicious cases

CPT: 87798

[WISP3] WISP3 GENE ANALYSIS

SPECIMEN REQUIRED: Whole blood, Fibroblasts, amniocytes or CVS

at room temperature

TUBE OR CONTAINER: Lavender (EDTA) or T-25 flasks

SPECIMEN VOLUME: 8 mL or 4 T-25 flasks MINIMUM VOLUME: 4 mL or 2 T-25 flasks

OTHER NAMES: WNT1 inducible signaling pathway protein 3;

Progressive pseudorheumatoid arthropathy of

childhood

METHODOLOGY: Sanger sequencing

CPT: 81479

[WNILCSFPCR] CSF West Nile Virus RNA (PCR)

SPECIMEN REQUIRED: Frozen CSF

TUBE OR CONTAINER: Sterile container

SPECIMEN VOLUME: 2.5 mL MINIMUM VOLUME: 1.25 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-5 days REFERENCE RANGE: Negative

METHODOLOGY: UltraQual polymerase chain reaction (PCR)

CLINICAL USE: Detect West Nile virus (WNV) RNA

CPT: 87798

[WNT10A] ECTODERMAL DYSPLASIA (WNT10A)

SPECIMEN REQUIRED: Whole blood at room temperature TUBE OR CONTAINER: Lavender (EDTA) or Buccal swab

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4 weeks REFERENCE RANGE: No mutation detected

OTHER NAMES: Autosomal Hypohidrotic Ectodermal Dysplasia

METHODOLOGY: Polymerase Chain Reaction (PCR) CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[WNT4] DISORDER OF SEX DEVELOP (WNT4)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: 46,XX Disorder of sex development (DSD) via the

WNT4 gene

METHODOLOGY: Bi-directional Sanger Sequencing CLINICAL USE: Confirmation of clinical diagnosis

CPT: 81479

[WNT5A] ROBINOW SYNDROME (WNT5A)

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 6 mL MINIMUM VOLUME: 3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 1-2 weeks METHODOLOGY: Sanger sequencing

CPT: 81479

[WT1] WT-1 DNA SEQUENCING

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Specimen must arrive in laboratory by 1:30 pm

Monday through Thursday only Ship within 24 hours of collection SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 1 mL

TEST AVAILABILITY: Monday-Thursday

TURNAROUND TIME: 2-3 weeks METHODOLOGY: DNA Sequencing

CPT: 81405

[XALD] X-LINKED ADRENOLEUKODYSTROPHY

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-3 weeks

METHODOLOGY: Polymerase Chain Reaction (PCR)/Sequencing or

Multiplex Ligation-dependent Probe Amplification CPT: 81405 Sequencing; 81479 (deletion/duplication)

[XLPBIRC4] X-LINKED LYMPHOPROLIF-BIRC4

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis,

X-linked Lymphoproliferative disease via the

XIAP/BIRC4 gene

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81479

[XLPSH2D1A] X-LINKED LYMPHOPROLIF-SH2D1A

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-4 weeks

OTHER NAMES: Familial Hemophagocytic Lymphohistiocytosis,

X-linked Lymphoproliferative disease via the

SH2D1A gene

METHODOLOGY: Bi-directional Sanger sequencing

CPT: 81404

[XOMEDXSL] XOMEDxSLICE-SPECIFIC GENE

SPECIMEN REQUIRED: Whole blood at room temperature

TUBE OR CONTAINER: Lavender (EDTA)

SPECIAL HANDLING: Prior to submitting the patient's sample for

testing, the phenotype driven gene list must be submitted using the XomeDxSlice online submission tool by the ordering provider

SPECIMEN VOLUME: 5 mL MINIMUM VOLUME: 2 mL

TEST INCLUDES: Captures and sequences the whole exome, but

analysis is targeted to a limited and specific

phenotype-driven gene list. TEST AVAILABILITY: Daily

TURNAROUND TIME: 10-12 weeks METHODOLOGY: Next-gen Sequencing

CLINICAL USE: XomeDxSlice is best suited for individuals with a

clearly defined, oligogenic phenotype where a comprehensive gene panel is not available, or the patient has a single gene disorder for which clinical testing is not currently available

CPT: 81479

[XsTONECOMP] STONE COMPOSITION

[YSTSEQ] Yeast/Fungal Identification

SPECIMEN REQUIRED: Pure culture: plate, slant or blood culture

bottle (pure) at room temperature

TUBE OR CONTAINER: Plate or slant

TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days METHODOLOGY: RNA Sequencing

CPT: 87153

[ZI] Zinc Level

SPECIMEN REQUIRED: Plasma at room temperature in a certified

metal-free plastic transport tube

TUBE OR CONTAINER: Royal Blue (EDTA)

Lavendar spun and poured off into metal-

free will be accepted, but may affect

results

SPECIAL HANDLING: Please contact laboratory for correct tube;

Plasma should be separated from cells within

45 minutes of collection

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 0.6 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: Environmental exposure: 70-150 ug/dL

OTHER NAMES: Zn

METHODOLOGY: Atomic absorption spectrometry (AAS); inductively

coupled plasma-mass spectrometry (IPC-MS) CLINICAL USE: Monitor exposure to zinc

CPT: 84630

[ZIKAIGM-CSF] Zika Virus IgM Antibody

SPECIMEN REQUIRED: CSF (Must be accompanied by a serum specimen)

Preferred specimen for detection of

neuroinvasive disease

TUBE OR CONTAINER: CSF: Sterile, plastic, screw-cap tube SPECIAL HANDLING: CSF: preferably, freeze at -20 degrees C or

colder, then ship on dry ice; however refrigerated (2-8 degrees C) shipment

using ice-packs is acceptable.

SPECIMAN VOLUME: 1 mL CSF MINIMUM VOLUME: 1 mL CSF

TURNAROUND TIME: Within 10 working days from receipt.

METHODOLOGY: Specimens are testing using an IgM antibody capture

enzyme-linked immunosorbent assay (MAC-ELISA).

REFLEX TEST INFORMATION: Per CDC testing guidelines, specimens

that are 'presumptive positive; or 'equivocal' on intial screen

may be reflexed to an arbovirus panel

plaque reduction neutralization

test (PRNT).

CLINICAL USE: Zika virus is a member of the Flavivirus group of

Arboviruses, and is transmitted to humans

primarily by the bite of an infected mosquito.

Perinatal, in utero, sexual and blood transfusion

transmissions have also been documented.

[ZIKAIGM-SERUM] Zika Virus IgM Antibody

SPECIMEN REQUIRED: Whole blood collected in serum separator

tube (SST)

TUBE OR CONTAINER: Gold

SPECIAL HANDLING: Serum: Store regrigerated (2-8 degrees C and

ship using ice packs.

SPECIMAN VOLUME: 2mL serum, collect additinal tubes to meet

volume requirements, as needed MINIMUM VOLUME: 2mL

TURNAROUND TIME: Within 10 working days from receipt.

METHODOLOGY: Specimens are testing using an IgM antibody capture

enzyme-linked immunosorbent assay (MAC-ELISA).

REFLEX TEST INFORMATION: Per CDC testing guidelines, specimens

that are 'presumptive positive; or 'equivocal' on intial screen

may be reflexed to an arbovirus panel

plaque reduction neutralization

test (PRNT).

CLINICAL USE: Zika virus is a member of the Flavivirus group of

Arboviruses, and is transmitted to humans primarily by the bite of an infected mosquito.

Perinatal, in utero, sexual and blood transfusion

transmissions have also been documented.

[ZIKAPCR-AMNIO] Amniotic Fluid Zika Virus (PCR)

SPECIMEN REQUIRED: Amniotic Fluid (Must be accompanied by a

serum specimen)

TUBE OR CONTAINER: Sterile, plastic, screw-cap tube

SPECIAL HANDLING: Preferably, freeze at -20 degrees C or

colder, then ship on dry ice; however refrigerated (2-8 degrees C) shipment

using ice-packs is acceptable. SPECIMAN VOLUME: 1 mL MINIMUM VOLUME: 1 mL

TURNAROUND TIME: Within 10 working days from receipt.

METHODOLOGY: Specimens are testing using a real-time, reverse

trancription-polymerase chain reaction (rRT-PCR) assay developed by the CDC (Trioplex Real-time

RT-PCR Assay).

CLINICAL USE: Zika virus is a member of the Flavivirus group of Arboviruses, and is transmitted to humans

primarily by the bite of an infected mosquito. Perinatal, in utero, sexual and blood transfusion transmissions have also been documented.

[ZIKAPCR-CSF] CSF Zika Virus (PCR)

SPECIMEN REQUIRED: CSF (Must be accompanied by a serum specimen)

TUBE OR CONTAINER: CSF: Sterile, plastic, screw-cap tube

SPECIAL HANDLING: CSF: preferably, freeze at -20 degrees C or

colder, then ship on dry ice; however refrigerated (2-8 degrees C) shipment

using ice-packs is acceptable.

SPECIMAN VOLUME: 1 mL CSF MINIMUM VOLUME: 1 mL CSF

TURNAROUND TIME: Within 10 working days from receipt.

METHODOLOGY: Specimens are testing using a real-time, reverse transcription-polymerase chain reaction (rRT-PCR)

trancription-polymerase chain reaction (rRT-PCR) assay developed by the CDC (Trioplex Real-time

RT-PCR Assay).

CLINICAL USE: Zika virus is a member of the Flavivirus group of

Arboviruses, and is transmitted to humans primarily by the bite of an infected mosquito. Perinatal, in utero, sexual and blood transfusion transmissions have also been documented.

[ZIKAPCR-SERUM] Serum Zika Virus (PCR)

SPECIMEN REQUIRED: Whole blood collectged in serum separator tube (SST)

TUBE OR CONTAINER: Gold

SPECIAL HANDLING: Serum: Store refrigerated (2-8 degrees C and

ship using ice packs.

SPECIMAN VOLUME: 2mL serum, collect additinal tubes to meet

volume requirements, as needed MINIMUM VOLUME: 2mL

TURNAROUND TIME: Within 10 working days from receipt.

METHODOLOGY: Specimens are testing using a real-time, reverse

trancription-polymerase chain reaction (rRT-PCR) assay developed by the CDC (Trioplex Real-time

RT-PCR Assay).

CLINICAL USE: Zika virus is a member of the Flavivirus group of

Arboviruses, and is transmitted to humans primarily by the bite of an infected mosquito. Perinatal, in utero, sexual and blood transfusion transmissions have also been documented

[ZIKAPCR-URINE] Urine Zika Virus (PCR)

SPECIMEN REQUIRED: URINE (Must be accompanied by a serum

specimen); preferred specimen for

early acute phase infection

TUBE OR CONTAINER: Urine: Sterile, plastic, screw-cap tube (Do

NOT Send Urine Collection Cups.

SPECIAL HANDLING: Urine: preferably, freeze at -20 degrees C or

colder, then ship on dry ice; however refrigerated (2-8 degrees C) shipment

using ice-packs is acceptable. SPECIMAN VOLUME: 1 mL MINIMUM VOLUME: 1 mL

TURNAROUND TIME: Within 10 working days from receipt.

METHODOLOGY: Specimens are testing using a real-time, reverse

trancription-polymerase chain reaction (rRT-PCR) assay developed by the CDC (Trioplex Real-time

RT-PCR Assay).

CLINICAL USE: Zika virus is a member of the Flavivirus group of

Arboviruses, and is transmitted to humans primarily by the bite of an infected mosquito. Perinatal, in utero, sexual and blood transfusion transmissions have also been documented.

[ZIPRAS] Ziprasidone (Geodon) Level

SPECIMEN REQUIRED: Frozen or refrigerated serum or plasma

TUBE OR CONTAINER: Red or Dark green (heparin)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

Serum or plasma should be separated from cells within two hours of venipuncture

SPECIMEN VOLUME: 2 mL MINIMUM VOLUME: 1 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 4-11 days

REFERENCE RANGE: Expected plasma concentrations in patients

taking recommended daily dosages:

up to 220 ng/mL

OTHER NAMES: Geodon, Zeldox

METHODOLOGY: Liquid Chromatography/Tandem Mass Spectrometry

(LC/MS/MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80299

[ZNRBC] RBC Zinc

SPECIMEN REQUIRED: Room temperature red blood cells (RBCs)

TUBE OR CONTAINER: Royal Blue (EDTA)

SPECIAL HANDLING: Please contact laboratory for correct tube;

Plasma should be separated from cells within

45 minutes of collection and discard plasma.

Send ONLY RBCs in original tube.

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.5 mL TEST AVAILABILITY: Daily

REFERENCE RANGE: 822-1571 ug/dL

METHODOLOGY: Inductively coupled plasma-mass spectrometry

(IPC-MS)

CPT: 84630

[ZNT8AB] Zinc Transporter 8 Antibody

SPECIMEN REQUIRED: Refrigerated or frozen serum

TUBE OR CONTAINER: Red or Gold

SPECIAL HANDLING: Centrifuge and separate within 45 minutes of

collection

SPECIMEN VOLUME: 1 mL MINIMUM VOLUME: 0.3 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 2-9 days

REFERENCE RANGE: 0.0 - 0.15.0 Kronus Units/mL

METHODOLOGY: Quantitative Enzyme-linked Immunosorbent Assay

(ELISA) CPT: 86341

[ZONI] Zonisamide (Zonegran) Level

SPECIMEN REQUIRED: Serum or plasma at room temperature

TUBE OR CONTAINER: Red or Lavender (EDTA)

SPECIAL HANDLING: Do NOT collect specimen in gel barrier tube

Separate from cells within 45 minutes of

collection

SPECIMEN VOLUME: 1.2 mL MINIMUM VOLUME: 0.4 mL TEST AVAILABILITY: Daily TURNAROUND TIME: 3-5 days

REFERENCE RANGE: 10.0 - 40.0 ug/mL

OTHER NAMES: Zonegran

METHODOLOGY: Liquid Chromatography/tandem mass spectrometry

(LC/MS-MS)

CLINICAL USE: Therapeutic drug monitoring

CPT: 80203

[ZUREAPL] Ureaplasma Culture

SPECIMEN REQUIRED: Urogenital, urine, joint fluid, CSF;

Refrigerate after collection and during transport

TUBE OR CONTAINER: Micro-Test Multi-Microbe

TURNAROUND TIME: 1-2 weeks

CLINICAL INFORMATION: Ureaplasma has been indicated as a cause

of infertility and should be considered in an infertility workup

Total Tests: 1736