The Department of Pediatrics at the University of Oklahoma College of Medicine, located in the OU Health Sciences Center complex in Oklahoma City, is a multispecialty medical facility devoted exclusively to the care of children from before birth through late adolescence. As part of the University of Oklahoma College of Medicine, we have been providing medical care to children since 1930 and our pediatricians and subspecialists have led the way in medical research and education.

In addition to our teaching responsibilities for the OU College of Medicine, we offer exceptional care to our young patients and treat nearly every child specialty. More than 176 OU Children’s Physicians specialists have committed their practice to the care of children. Many OU Children’s Physicians specialists have achieved levels of expertise in the management of complex conditions that you won’t find elsewhere in the state, region or sometimes even the country.

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FROM THE CHAIRMAN

Welcome to the Department of Pediatrics at the University of Oklahoma College of Medicine. Located in the OU Health Sciences Center Complex in Oklahoma City, our department is focused on the treatment of children of all ages.

The center of our program is based at The Children’s Hospital at OU Medical Center. The department is composed of 15 sections and 176 faculty members, seeking excellence in individual and shared goals.

The faculty is dedicated to the scholarly delivery of clinical service, the teaching of students and housestaff, and the development of applied and basic knowledge through research. We work closely with several research institutions, such as the Children’s Medical Research Institute and the Oklahoma Medical Research Foundation, to support the advancement of research in childhood diseases.

We share a common commitment to serving and protecting the well-being of the children of Oklahoma by ensuring the continuity and improvement of health care to future generations of children through the training of outstanding pediatricians.

Details of our educational program are provided in the pages that follow. There are, however, three philosophical points I would like to highlight. They may help you understand why I believe our program is a very special one.

First, the entire faculty of the Department of Pediatrics is committed to providing an exciting educational experience in which the pediatric house officer has the opportunity to learn how to become a competent and compassionate physician to the infant, child and adolescent. During their training, our house officers demonstrate increasing independence in their work with attending physicians to care for children with a variety of common and unusual pediatric problems. Thus, our program seeks the proper balance between scientific inquiry and empathic clinical care.

Second, our program welcomes the opportunities of a changing patient population, in a changing world, in a changing profession. The house officer is exposed to exciting career choices within our profession by working with outstanding pediatric role models who practice general pediatrics and subspecialty pediatrics, who are outstanding medical educators, and those who are physician scientists involved in clinical or basic research.

Third, our program encourages an integration of the resident’s personal life with his/her emerging professional life. This tenet is based on our belief that advocacy for residents supports their growth as individuals who are becoming compassionate physicians. Oklahoma is an ideal place for such an integration to occur. It is a warm and friendly environment that offers the opportunity for simultaneous personal and professional growth.

Terrence L. Stull, M.D.
Chairman, Department of Pediatrics
University of Oklahoma Health Sciences Center
CMRI Patricia Price Browne Distinguished Chair
FACULTY

PHILIP J. RETTIG, M.D.
Professor of Pediatrics, Section Chief

STACIE ROUGAS, M.D.
Assistant Professor of Pediatrics
(January - June 2010)
Program Director, Internal Medicine and Pediatrics Residency Program

ELISA DAVIS, M.D.
Clinical Assistant Professor of Pediatrics
(July 2010 – present)
Associate Program Director, Internal Medicine and Pediatrics Residency Program
The primary mission of the Section of Adolescent Medicine is to provide quality care to patients 13 through 20 years of age through the Adolescent Medicine Clinic of OU Children’s Physicians and to provide clinical training to medical students and residents in this location. All the efforts of the section’s faculty are centered on this dual mission. Adolescent Medicine is a unique subspeciality, including both primary care of an age-defined group of youth and specialized care of problems unique to this age group. Fulfilling the former function entails providing a wide range of primary care and preventative services to a population of teens residing in central Oklahoma, including an average of 480 patient lives per month under Sooner Care (the Medicaid HMO plan), numerous youth residing in at least five Department of Human Services-affiliated homes, and a number of adolescent patients in foster care. The latter function encompasses providing care for unique adolescent problems from throughout the state, including adolescent gynecology, eating disorders, complex medical problems, psychological conditions and adolescent infectious diseases. Care is provided in the Adolescent Medicine Clinic, located on the seventh floor of the OU Children’s Physicians Building adjacent to the Children’s Hospital. The section does not provide direct inpatient care for hospitalized teens but does provide occasional consultation on the inpatient service.

A large number of trainees rotated through the Adolescent Clinic. During 2010, 25 pediatric interns and residents, six med-peds residents, one psychiatry intern, two internal medicine residents, six PA students and seven MS-4 students participated in month-long clinical rotations. Additionally, 38 MS-3 students had one-week experiences in the clinic as part of the third-year basic pediatric rotation. In addition to the patient-centered clinical education provided in the clinic experience, four to six didactic conferences are given to trainees each month by Dr. Rettig.

Section faculty have continued to provide valuable leadership in directing with the four-year, bi-departmental Internal Medicine-Pediatric Residency Program. Dr. Stacie Rougas was program director until her resignation in June; her position was filled in July by a new junior faculty member in the Section, Elisa Davis, M.D., a recent graduate of the Med-Peds Program. Once again, this program filled its three first-year slots through the
PEDIATRIC ADOLESCENT MEDICINE

Residency Match. The program continues to attract excellent candidates and to turn out successful and highly qualified graduates.

Dr. Rettig continued his additional hospital and campus-wide service as co-chairman of the OU Medical Center Hospital Ethics Committee and as chairman of the OU Physicians’ Ethics Committees. In both of these roles, he provided ethics consultations on individual patients and oversight of policy development and implementation on ethical issues in hospital and ambulatory care.

He continued to coordinate and lead a monthly Ethics Conference for the pediatric residents during 2010, covering a wide range of topics, including an adolescent Jehovah’s Witness with cancer; the ethics of palliative sedation; the ethics of organ and tissue donation from minors; informed consent in Neonatal Intensive Care Unit patients, end-of-life issues; and ethics of growth attenuation in developmentally delayed children.

Given a statewide shortage of pediatric infectious disease specialists during much of 2010, Dr. Rettig provided consultation and evaluation of many adolescents with infectious diseases from throughout the state. During 2010, he provided care for 12 young people with HIV/AIDS.

HIGHLIGHTS OF 2010:

2010 marked the first full year of the clinic and academic offices being located in the new OU Children’s Physicians Building. These new work spaces have furnished outstanding advances in comfort, efficiency and attractiveness – greatly improving both patient and faculty and staff satisfaction.

A much-appreciated outreach activity has become the annual Flu Vaccine Clinic provided to the students, faculty and staff of our OU Health Sciences Center campus neighbor, the Oklahoma School of Science and Math. This year, more than 90 recipients from the OSSM were vaccinated with the 2010-11 seasonal flu vaccine on Nov. 11.

The EXCEL Program of OU Medicine and the “AIDET” initiative took hold in the clinical area as the Adolescent Medicine Clinic staff achieved significant improvement in meeting performance benchmarks and in patient satisfaction survey results. By the end of 2010, the Adolescent Clinic was achieving 99th-percentile scores on some sections of the Press Ganey satisfaction surveys.

Dr. Rettig continued as co-director, with Dean Andrews, of the second-year medical student Clinical Ethics Course given during the spring semester of 2010. He gave two lectures and coordinated all
aspects of this course. As course director of Clinical Ethics, he served on the Basic Sciences Curriculum Committee. With the initiation of Curriculum 2010, a new longitudinal Clinical Ethics course for first-year students was organized and initiated in August 2010. This course expanded the traditional second-year course from 16 to more than 24 hours of lectures and module-based, small-group exercises throughout the first 20 months of the medical curriculum and incorporated new components on legal medicine.

Additionally, Dr. Rettig served on the Educational Resources Subcommittee of the College of Medicine LCME Self-Study Task Force and participated in the mock LCME survey in the fall of 2010 as a course for clinical ethics, both tasks in preparation for the January 2011 reaccreditation of the College.

In 2010, Dr. Rettig was named to both the “Top Doctors” and “Best Doctors” lists of Oklahoma physicians.

**TRAINING**

(See information on training residents and students above.)
PEDiATRIC CARDiOLOGiE

FACULTY

ED OVERHOLT, M.D.,
Associate Professor
Section Chief

KENT WARD, M.D.,
Associate Professor

SHERRI BAKER, M.D.,
Associate Professor

KUMAR PONNIAH, M.D.,
Assistant Professor

CHARLES SPERRAZZA,
M.D., Associate Professor
The pediatric cardiology section is a very active group of clinicians/teachers with a broad base of clinical expertise in multiple subspecialty areas. All members of the section maintain a busy outpatient practice from two to five half-days per week caring for infants and children with all types of congenital and acquired heart disease. These patients are evaluated and on-site diagnostic testing performed both on campus at the OU Medical Center as well as at multiple satellite locations including north Oklahoma City (Mercy), McAlester, Ardmore, Lawton and Tahlequah. Two members of the section (Shah, Overholt) also maintain a clinic designated for patients with cardiac arrhythmias in Tulsa. Adults with congenital heart disease are evaluated in a monthly clinic at the OU Medical Center by Drs. Ward and Shah. Patients seen in these clinics who require more extensive testing or treatment undergo these procedures at Children’s Hospital at the OU Medical Center on an outpatient or inpatient basis. Clinical activities at the OU Medical Center include supervision (Medical Director – Dr. Ward) and staffing of the Pediatric Echocardiography Lab. This requires daily interpretation or performance of transthoracic or transesophageal echocardiograms, supervision of echocardiography technical staff and regular educational conferences. Dr. Baker serves as director of the telemedicine echocardiography service, which maintains a state-wide system of internet-based sites for performance of echocardiograms in local hospitals with immediate physician supervision and interpretation. The echocardiography laboratory has achieved accreditation by the American Society of Echocardiography and represents the only accredited site in Oklahoma for performance of pediatric echoes. Fetal echocardiograms are interpreted by faculty (Ward, Baker, Ponniah, Overholt) during their performance in conjunction with members of the Maternal-Fetal Medicine service and MFM specialists within the OKC metro area. Members of the faculty also interpret pediatric echocardiograms performed throughout central and western Oklahoma by local hospital technicians and sent to OU Medical Center for evaluation. The Pediatric Cardiac Catheterization Laboratory serves as the site for all cardiac catheterizations performed by members of the faculty (Sperrazza, Overholt, Ward, Shah). These studies include diagnostic imaging, hemodynamic...

**SECTION PROFILE**

**Number of Faculty:**
7 (6 Fulltime)

**Number of Students:**
25 (estimate)

**Number of Support Personnel:**
6.5

**Annual Total Grant Support**
(direct): $23,280

**Annual Total Industry Contracts**
(direct): $40,000

**Number of Peer-Reviewed Publications:**
0

**PATIENT ENCOUNTERS**

**Outpatient Visits:**
1. Office Consults - 980
2. New Patient Visits - 1,550
3. Established Patient Visits - 3,693
4. Total - 6,223

**Inpatient Visits:**
1. Inpatient Consults - 127
2. Critical Care Services - 0
3. Initial Inpatient Visits - 117
4. Inpatient Daily Care - 1,263
5. Observation Care - 1
6. Discharge Day Services - 192
7. Total - 1,700
evaluation, interventional procedures, diagnostic electrophysiologic studies and other therapeutic procedures. Interventional electrophysiologic studies are performed in conjunction with members of the internal medicine cardiac electrophysiology service in the Electrophysiology Laboratory housed within Children’s Hospital (Drs. Shah and Overholt). Drs. Shah and Overholt perform device surgical implantation procedures (pacemakers, defibrillators, implantable EKG recorders) in the Pediatric Cardiac Catheterization Laboratory as well. The inpatient cardiology service maintains an active group of patients admitted for diagnosis and management of hemodynamic problems and arrhythmias, consultative services for cardiac problems throughout Children’s Hospital, consultative services for adults with congenital heart disease at Presbyterian Tower as well as care for postoperative cardiac patients. The inpatient attending cardiologists (Overholt, Ward, Sperrazza, Shah, Ponniah) round on these patients daily with medical students, resident housestaff and nursing personnel. Daily rounds in conjunction with members of the cardiovascular surgery service and pediatric critical care service are held on cardiac patients within the intensive care unit. Weekly case conferences are held with members of the cardiovascular surgical service and critical care service in attendance. Monthly pediatric cardiovascular morbidity/mortality conferences are held to review outcomes and improve quality. None of the clinical faculty led a clinical research study or maintained a basic science research laboratory last year. A number of the faculty did, however, participate in ongoing clinical research studies including Drs. Ward (homograft valve studies, multicenter myocarditis study) and Sperrazza (medical device implant studies). Two of the faculty are extensively involved in departmental, university and extramural activities. Dr. Baker serves as associate dean for admissions within the College of Medicine and also is a member of national committees for the American Medical Association. Dr. Overholt serves as Medical Director for OU Children’s Physicians and is also co-medical director of the Oklahoma Children’s Heart Center.

HIGHLIGHTS OF 2010
During the past academic year, the section’s clinical activity continued to grow substantially throughout all the outpatient clinics, diagnostic testing and cardiology-based interventional activities. Dr. Ponniah has organized a new Cardiovascular Risk Factors Clinic and will begin operation of this clinic in the first or second quarter of 2011. During the fourth quarter of 2010, surgical activities were curtailed due to the loss of cardiac surgical support. This necessitated outside referral of all patients with surgical needs for several months and continuation of outside referral of patients with complex surgical needs for the entire period. With the recruitment of senior surgical support beginning in January 2011, the need for outside referral should dramatically reduce within the next calendar year. The arrhythmia service continued to grow significantly particularly with Dr. Shah’s activities in the ablation laboratory and the active referral service through the Tulsa arrhythmia clinic. Two additional successful recruitments were carried out within the year – a cardiologist/cardiac intensivist (Dr. Anas Salkini) will be starting in July, 2011 after completion of fellowship training at Stanford University, and a physician assistant (Emily Auld) will
start in January 2011 with a plan to serve as a provider in the outpatient clinic and assist with exercise testing and sedation echocardiograms. The section continues to recruit for at least one additional cardiology faculty member.

**TRAINING**
All members of the faculty participate in the teaching of medical and nursing students, residents and allied-health personnel through bedside care activities, outpatient clinics as well as regular lectures, grand rounds presentations and lectures at special conferences.

**GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS**
The cardiology section maintained a number of contractual agreements with hospitals in the central, southern and western Oklahoma region for interpretation of diagnostic testing (echocardiograms, telemedicine echocardiograms, electrocardiograms, ambulatory EKG recordings) in pediatric patients.

**INDUSTRY GRANT**
Two clinical grants provided by CryoLife Inc., Dr. Ward, Principal Investigator – study of viability of preserved homograft replacement valves

| Cardiac Catheterization Lab Procedures: | Total - 199 |
| Electrophysiology Ablation Lab Procedures: | Total - 67 |
| Echocardiographic Procedures: | Total - 7,305 |
| Electrocardiographic Procedures: | Total - 7,326 |

**PUBLICATIONS**
PEDIATRIC CRITICAL CARE
PEDIANTRIC CRITICAL CARE

Dr. Gessouroun, associate professor of pediatrics, serves as chief of the Critical Care Section of the Department of Pediatrics; medical director of the Pediatric Intensive Care Unit at the Children’s Hospital at OU Medical Center; and as service chief for pediatrics at OU Medical Center. Dr. Gormley, assistant professor of pediatrics, is the assistant director of the PICU and provided medical direction in Dr. Gessouroun’s absence. Dr. Allen, assistant professor of pediatrics, joined the section in July 2005 and continues in a primarily clinical and educational role. Dr. Emilie Henry joined the section in July 2007. Her addition to the section has allowed us to expand clinical coverage substantially and allow the section to begin twenty-four hour in-house attending physician coverage of the PICU five of seven days per week. In July, 2009 we added Dr. Katherine Grant to the section. Dr. Grant completed her pediatric residency and chief resident year in the OU Pediatric Residency. She has interests in pediatric critical care and pediatric cardiac critical care. She serves to extend the section’s ability to provide care to critically ill children, especially post-operative cardiac surgery patients. In 2010, the section added two additional pediatric intensivists. Dr. Kevin Couloures joined the section in July 2010, having completed his pediatric critical care fellowship at the A.I. DuPont Hospital for Children in Wilmington, Del. In addition to completing his critical care fellowship, Dr. Couloures completed a master’s degree in Public Health from the Johns Hopkins University in Baltimore. In addition to joining in the provision of clinical coverage, Dr. Couloures comes to the section with an interest in patient safety and pediatric sedation. Dr. Christopher Cunnyingham also joined the section in July 2010. Dr. Cunnyingham completed his fellowship in pediatric critical care at the Children’s Medical Center of Dallas in 2008. Dr. Cunnyingham is a native of Edmond, Okla., and a graduate of OU College of Medicine. He completed his pediatric residency at the Children’s Hospital of Oklahoma in 2005. He had been in practice since completion of his fellowship at Methodist Children’s Hospital in San Antonio, Texas. Dr. Cunnyingham has experience in the care of a broad range of pediatric critical care patients, critically ill surgical patients and children following surgery for congenital heart disease. We continue to pursue candidates to fill a position primarily focused on research as well as seeking to further support expansion of clinical services, including a

SECTION PROFILE

Number of Faculty: 7
Number of Fellows: 0
Number of Support Personnel: 2

PATIENT ENCOUNTERS

Outpatient Visits: 1,200 (sedation program)
Inpatient Encounters: 1,200

HIGHLIGHTS

1. Addition of Kevin Couloures, D.O., and Christopher Cunnyingham, M.D., to faculty to augment pediatric critical care and cardiac surgical support

2. Expanded role for Dr. Gormley as medical director for Pediatric Cardiothoracic Critical Care

3. Expanded collaborative research and publication by multiple section members.

FACULTY

Morris R. Gessouroun, M.D.
Andrew K. Gormley, M.D.
H. Christine Allen, M.D.
Emilie Henry, M.D.

Kevin Couloures, D.O.
Christopher Cunnyingham, M.D.
Katherine Grant, M.D.
PEDIATRIC CRITICAL CARE

A comprehensive pediatric sedation program as well as providing 24-hour-per-day, 7-day-per-week in-hospital critical care attending physician coverage for the Pediatric ICU.

Anne Cuomo serves as the section administrative coordinator and provides essential support for the clinical and administrative activities of the section. Janet Lewis, who joined the section in 2007, has expanded her duties in support of the clinical enterprise and administrative activities.

The section continues to provide patient care services primarily at the New Children’s Hospital at OU Medical Center, formerly University Hospital (Everett Tower).

CLINICAL ACTIVITIES

Drs. Gessouroun, Gormley, Allen, Henry, Couloures and Cunningharn serve as the primary attending physicians in the PICU, each providing about 33 percent of the attending physician coverage and 17 percent of the on-call coverage for the unit. In March 2007, the section began expanded support for the Pediatric Cardiothoracic Surgery Program by initiating continuous daytime attending coverage for cardiothoracic service patients from 7:30 a.m.-5:30 p.m. Monday - Friday. Each faculty member therefore spends 75 percent FTE in clinical/teaching pursuit and 25 percent pursuing educational, administrative, or research activities. Dr. Grant provides care to pediatric critical care and post-operative cardiac surgical patients. She participates in the night coverage of the PICU with backup from one of the pediatric intensivists to assure board-certified or board-eligible physician availability at all times.

The clinical activities of the Critical Care Section involve providing attending physician coverage for the Pediatric ICU. In January 2007, we occupied new Pediatric ICU facilities as part of the OU Medical Center consolidation. We left a 16-bed intensive care unit and have occupied newly renovated space consisting of two units of nearly identical character on the eighth and ninth floors of Everett Tower. These units provide care for about 1,200 children with various medical and surgical conditions that require intensive and invasive monitoring and treatment modalities each year. The average length of stay for these patients is about seven days, with a few patients requiring intensive care for as long as 180 days. All patients with medical conditions requiring intensive care are admitted to the PICU attending physician. Many patients with surgical conditions are either admitted to the PICU attending physician, or the PICU attending physician provides varying degrees of consultative assistance to the admitting surgical attending physician.

In general, the clinical duties of the faculty members of the critical care section are to provide attending physician or consulting services to patients admitted to the Pediatric Intensive Care Unit of the Children’s Hospital of Oklahoma. These services include the cognitive activities of evaluating patient condition, determining a plan of care, implementing a plan of care, and communicating with the patient and family. Other activities include such procedures as endotracheal intubation, mechanical ventilation, extracorporeal life support, placement of vascular catheters, management of peritoneal dialysis and continuous renal replacement therapy. Patient care activities also occasionally occur within the Children’s
Hospital Emergency Department or on one of the Medical-Surgical Wards of the Children’s Hospital. In addition, the faculty members of this section assist other physicians, both faculty and resident, with consultative services on patients hospitalized at the Children’s Hospital. We periodically assist physicians in outlying facilities in the management of patient problems and assist them in arranging transport of their patients to Children’s. With the advent of the Children’s Hospital Access Center, the PICU Attending physician often has the opportunity to aid in the stabilization and management of patients before transfer.

The section faces a number of clinical challenges in the next academic year. Further restrictions on resident working hours mandated by the RRC and AAMC and limited numbers of upper-level residents continue to impact needs for direct attending physician availability for patient care services. The reduction in house staff availability resulted in the need for faculty to assume in-house night coverage. We provide 24-hour, in-hospital attending physician presence six of seven nights per week (86 percent). This action significantly improved the quality of patient care and resident education. In addition, the continuous presence of PICU attending physicians helps to support the Pediatric Emergency Department and the Medical-Surgical Units.

The Critical Care Section has maintained its support to the Pediatric Cardiothoracic Program by extending our assistance in the management of post-operative cardiac patients with 24-hour coverage six days per week. This year, Dr. Gormley has accepted the designation as medical director for Pediatric Cardiothoracic Critical Care. The purpose of this designation is to augment coordination of care between the key services involved in caring for children following cardiac surgery, including Pediatric Cardiology, Pediatric Cardiothoracic Surgery and Pediatric Critical Care. In this role, Dr. Gormley intends to provide ongoing quality and patient safety assessment for the purpose of refining patient care protocols through regularly scheduled service meetings.

With success in recruiting additional faculty, our goals include achieving seven-days-per-week, 24-hour in-house attending physician. We seek to expand participation in providing moderate and deep sedation services to patients outside the Pediatric ICU. Ideally, the section would like to see the development of a sedation center at The Children’s Hospital at OU Medical Center operated cooperatively by the Pediatric Anesthesia and Pediatric Critical Care Services to improve the quality and volume of patients who benefit from these services.

**TEACHING ACTIVITIES**

Teaching objectives in the PICU are achieved through a combination of daily bedside teaching rounds, formal “sit-down” rounds and didactic lectures each week. Pediatric residents experience one-month rotations during each year of training. Medicine-pediatrics residents rotate once during their first year and once during their third or fourth years. Anesthesia residents rotate with the service to obtain pediatric critical care training. Beginning this year, first year neurosurgery residents rotate in the PICU for their critical care training. An elective rotation for fourth-year medical students remains available and
continues to be quite popular with students interested in pediatrics. Several students select this rotation per academic year. We continue to be a popular rotation for the physician’s assistant students who regularly choose to rotate on the service.

All care provided by the PICU attending physician is done in the context of the academic unit. That is, all patients have a pediatric resident, medicine-pediatric resident, anesthesia resident or neurosurgery resident directly involved in their care. Generally there are three to five such residents assigned to the PICU on a monthly basis. Care is generally provided through the involved house officer by way of formal daily PICU attending rounds. During these rounds, the patient’s previous course, current status and assessment are discussed and a plan for the day is established. It is the responsibility of the house officer to faithfully carry out that plan.

Faculty provides multiple house staff noon conferences and staff conferences each year on pediatric critical care topics. Dr. Henry has taken the responsibility of co-directing a house staff morbidity and mortality review. Dr. Henry has also started a regular section Journal Club. The Pediatric Critical Care Section is responsible for providing two Pediatric Grand Rounds topics per calendar year.

Dr. Gormley has begun the task of evaluating for the possible development of a Pediatric Critical Care Fellowship. He has done preliminary evaluation with the intent of seeking the initiation of a fellowship program beginning in July 2012.

As with the impact on clinical activities, the new rules governing resident works limits will adversely impact the teaching mission. By necessity, there will be an increase in cross-coverage and days off to limit working hours. This creates a discontinuity both in patient care as well as the teaching mission. The loss of daily contact will make it more difficult for residents to learn the process of patient care. In addition, didactic teaching will be difficult with such a frequently shifting resident audience.


PUBLICATIONS


ABSTRACTS

Kevin Couloures, Oklahoma University Children's Hospital, Sean Elwell, AI duPont Hospital for Children: Initiation of Safety Seat Inspection Stations and Resultant Injury Reduction in the State of Delaware. Published in SCCM 2010 December Supplement. Presented as poster at Society of Critical Care Medicine Annual Congress, January, 2011

DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS

FACULTY

MARK WOLRAICH, M.D.
Professor, Pediatrics, Full Time

BARBARA BONNER, Ph.D.
Professor, Psychology, Full Time

TATIANA BALACHOVA,
Ph.D. Associate Professor, Psychology, Full Time

DAVID BARD, Ph.D.
Assistant Professor
Quantitative Psychology
Full Time

LANA BEASLEY, Ph.D.
Adjunct Professor, Psychology
Part Time

WILL BEASLEY, Ph.D.
Asst. Research Professor,
Quantitative Psychology,
Part Time

DOLORES BIGFOOT, Ph.D.
Assistant Professor,
Psychology, Full Time
The mission of the Section of Developmental and Behavioral Pediatrics is to improve the lives of children with special needs and their families, including children exposed to abuse and neglect, through interdisciplinary services, research and training.

The section provides an environment that encourages interdisciplinary activities in all of our programs. Our services are primarily evaluative with behavioral and speech therapy and psychotropic medication management provided. The section is building a network of relationships with counties throughout Oklahoma to help integrate its services with those provided locally. We provide interdisciplinary training related to child abuse and neglect and developmental disabilities. This training includes pediatric residents, medical students on an elective basis, psychology interns and postdoctoral fellows, and students from other disciplines including: audiology, dentistry, nursing, nutrition, occupational therapy, parent-family issues, physical therapy, public health, self advocate issues, social work, special education, speech-language pathology and law. We have an extensive research program that includes the areas of health services, epidemiology, intervention efficacy and dissemination of evidence-based practice. The section’s activities are accomplished by 25 faculty and 92 staff.

Eighty percent of the section’s support is derived from grants and contracts obtained from federal, state, local, and private foundation sources; twelve percent is from state appropriations, five percent is from other sources (primarily through the Department of Pediatrics) and three percent is from clinical revenues.
DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS

SERVICES

Families
- Family Partners
- Sooner SUCCESS

Health
- Jump Start Clinic for Children with Autism
- Developmental-Behavioral Pediatrics
- ADHD Clinic
- Neuropsychology Clinic
- Services for Children Prenatally Exposed to Substances and Their Families
- Family-Centered Clinic
- Sooner SUCCESS

Mental Health
- Parent-Child Interaction Therapy
- Treatment for Adolescents with Illegal Sexual Behavior Problems and Children with Sexual Behavior Problems
- Therapy for Traumatized Children and Youth
- Safety First – Services for Children Exposed to Domestic Violence
- New Directions
- Sooner SUCCESS
- Indian Country Child Trauma Center

Education
- Individual School Consultations
- Sooner SUCCESS
- Early Foundations

Human Services
- OK Child Death Review Board
- Task Force on Child Abuse and Neglect
- Services for Children Who Have Been Abused or Neglected
- Sooner SUCCESS

Juvenile Justice
- Treatment for Adolescents with Illegal Sexual Behavior Problems and Children with Sexual Behavior Problems

RESEARCH

Families
- Effects of Family-Centered Care

Health
- Fetal Alcohol Syndrome Prevention (International)
- Fetal Alcohol Syndrome Clinical Medication Trial
- ADHD Prevalence and Long term Follow-up
- Autism – Clinical Medication Trial
- Follow-up of Children Prenatally Exposed to Substances and Their Families

Mental Health
- Dissemination of Evidence-Based Services
- Parent-Child Interaction Therapy
- Trauma-Focused Cognitive Behavioral Therapy
- Prevention of Child Maltreatment in High-Risk Families
- Typology of Children with Sexual Behavior Problems

Education
- Effectiveness of Educational Interventions for Children with Autism

Human Services
- Dissemination of Evidence-Based Services
- Services for Child Neglect and Abuse, including SafeCare
- Parent-Child Interaction Therapy

FACULTY CONTINUED

DEBRA HECHT, Ph.D.
Assistant Professor, Psychology
Full Time

THOMAS LOCK, M.D.
Associate Professor, Pediatrics
Full Time

LOY MARKLAND, M.D.
Assistant Professor, Pediatrics
Part Time

BONNIE MCBRIDE, Ph.D.
Assistant Professor, Special Education, Full Time

LAURA MCGUINN, M.D.
Assistant Professor, Pediatrics, Full Time

MELANIE NELSON, Ph.D.
Assistant Professor, Psychology
Full Time
- Efficacy of Treatment for Children with Sexual Behavior Problems
- Effectiveness of Treatment for Children Exposed to Domestic Violence
- Evaluating Concurrent Substance Abuse and Trauma Treatment With Child Welfare Involved Mothers
- Child Abuse Related Fatalities

**TRAINING**

**Families**
- Leadership Education in Neurodevelopmental and Related Disabilities

**Health**
- Pediatric Residency Training
- Developmental-Behavioral Pediatric Fellowship
- Medical Home Training (360 Center, Developmental Screening and Case Coordination)
- Interdisciplinary Training Program in Child Abuse and Neglect
- LEND
- Child Abuse Medical Examiner Training Program

**Mental Health**
- Psychology Interns and Post-Doctoral Fellows; Psychology and Social Work Practicum Students
- ITP and LEND
- Project Making Medicine
- Parent-Child Interaction Therapy Training
- Trauma-Focused Cognitive Behavior Therapy Training
- Indian Country Child Trauma Center
- Therapy for Children Exposed to Domestic Violence
- Training Program for Sexual Behavior Problems

**Education**
- School Support Services and LEND

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**Annual Total Grant Support (Direct):** $6,983,924
**Annual Total Industry Contracts (Direct):** $421,278
**Number of Peer-Reviewed Publications:** 12
**Number of Client Encounters through Clinics:** 4,354 CSC 217 CCAN
**Number of Client Encounters through Grants and Contract:** 3,949, including:
- Children with Sexual Behavior Problems Program – 891 child encounters
  - 908 caretaker encounters
- Adolescents with Illegal Sexual Behavior Program –
  - 492 adolescent encounters
  - 406 caretaker encounters
- New Directions Foster Care Program –
  - 573 Child Encounters
  - 679 Foster Parent Encounters
**DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS**

**Human Services**
- ITP and LEND
- SafeCare Training
- Child Welfare Staff Training
- Annual Child Abuse and Neglect Conference
- Indian Country Child Trauma Center

**HIGHLIGHTS OF THE YEAR:**

The section had a highly productive year in terms of increasing clinical services, improving collections, obtaining research grants and increasing school-related training. These accomplishments are briefly discussed below.

- We have maintained accreditation from the Commission on Accreditation of Rehabilitation Facilities.
- All faculty and staff have remained current on required university training, research training and CPR.
- Sooner SUCCESS, a program facilitating the coordination of services across health, mental health, human services and education for children with special needs and providing a stimulus for system change at the state and county level, was expanded to cover 11 counties through additional funding obtained from the legislature to sustain the expansion of the program.
- The New Views on Diversity Committee sponsored three presentations for the section and approved 16 activities on campus and in the community. All section members completed the required three hours (or 1.5 hours if part-time) of cultural competency training.
- The accounting team has been reorganized and expanded under the leadership of Stephanie Thurman, business manager for budget and finance, Department of Pediatrics.
- A fellowship training program in Developmental and Behavioral Pediatrics was accredited and a second candidate will begin a three-year Fellowship in July 2011 with a continuation of our previous fellow.
- The DHS Child Welfare Training contract was expanded to provide increased training seminars.
- New research and service grants were awarded by the Office of Juvenile Justice Delinquency and Delinquency Prevention (Silovsky), the CDC (Chaffin), HHS (BigFoot), Oklahoma Department of Education (Mathis), and numerous grants were awarded funding for continuation. (See Table 1 below.)
- Research in ADHD has been completed on the assessment of the prevalence of the disorder to evaluating the long-term outcomes.
- Training and consultation on autism for public schools was expanded.
- Parent-Child Interaction Therapy training was expanded and incorporated distance training and supervision.
- The Early Foundations was expanded to include two more programs in the community and a third is being worked on in Tulsa.
- Primary care physicians in the community have been trained to screen and identify young children with autism.
Clinical Activities: The Section continues to offer a number of specialized services for children with special needs. This year we provided over 4,000 client encounters. The diverse array of clinical services includes interdisciplinary clinics for preschoolers with developmental delays or Autism Spectrum Disorders (Jumpstart), school-aged children with developmental and learning problems (Family Centered Clinic), and children who have been exposed to substances of abuse (A Better Chance Clinic). We also offer single discipline services in Developmental-Behavioral Pediatrics with a special emphasis on Attention-Deficit/Hyperactivity Disorder, Neuro-psychology, Speech-Language Pathology, Behavioral Therapy with a special focus on Parent-Child Interaction Therapy, and Occupational Therapy. We have developed a model early intervention program for children with Autism. Payments for clinical services rebounded to over $600,000 after payments for services provided by psychology trainees were resumed.

Services have continued to be provided for maltreated children and their caregivers, including individual, group, and family therapy. Specialized services for children with sexual behavior problems and their caregivers, adolescents with illegal sexual behavior and their caregivers, and children removed from their parents due to substance abuse and their foster parents are being conducted.

We continued to build special expertise in the areas of Autism and Fetal Alcohol Syndrome. We added a part time neuropsychologist and a part time psychologist to assist in the evaluation of school-aged children with autism. We collaborated with the staff of Early Foundations to provide autism evaluations at the school.

Training and Professional Development:

Training and Professional Development efforts this year have focused on: expanding student and community training opportunities; providing appropriate professional development opportunities for all faculty and staff; and conducting seminars on cultural diversity for members of the Section. Training included: interdisciplinary pre-service training for students in multiple disciplines; state, national and international training to providers in health, education, human service, mental health and juvenile justice; and training on culturally congruent adaptations of evidence-based practices for American Indian children and their families.

Current training initiatives are discussed below and include updates on previously reported initiatives as well as initiatives such as Early Foundations and Project PEAK. There has been a continued focus on expanding the number of individuals with specific expertise to provide interdisciplinary training on a wider range of topics related to children with special needs including children exposed to abuse, neglect, and/or trauma. Professional Development included a variety of training sessions to enhance professional development.

- Child Abuse Medical Examiner Training-
  An annual training for medical personnel statewide that would like training in the area of child abuse and neglect. There are two basic trainings provided each fiscal year. Each two-day conference focuses on identifying physical signs of child abuse, as well as working with DHS and the court system.
The objectives of this course include defining the role of a child abuse medical examiner and providing information so the participants will be able to correctly diagnose physical and sexual abuse in children. This training is only for medical personnel.

- **Clinical Psychology Internship**—Accredited by the American Psychological Association. Psychology interns are provided training in assessment, treatment and consultation in child clinical and pediatric psychology. Five clinical psychology interns received training through our section in 2010.

- **Clinical Psychology Post-Doctoral Program**—Accredited by the American Psychological Association. Psychology post-doctoral Fellows are selected with specializations in pediatric psychology, child clinical psychology, child neuropsychology and in responding to child maltreatment/trauma. Post-doctoral fellows maintain a clinical caseload, complete a research project and conduct training. Three post-doctoral fellows received training through our section in 2010.

- **DHS Child Welfare Training**—The Center on Child Abuse and Neglect organizes and conducts the following training for the Oklahoma Department of Human Services: multiple five-week child welfare CORE trainings for approximately 350 new child-welfare workers; a two-week school-based CORE for 20 social-work students; Level I mandatory training for child-welfare specialists with approximately 2,000 participants; Level II training for all child-welfare specialists and supervisors for approximately 2,500 participants; shelter training for approximately 60 shelter workers; Level III and miscellaneous training for approximately 900 participants; and field interviewing for approximately 325 child-welfare specialists. The program basically provides training for all levels of child-welfare across the state of Oklahoma.

- **Early Foundations**—Autism Model and Outreach Project is an early intervention and treatment program for young children with an autism spectrum disorder between the ages of 18 and 48 months. The model site is located in Oklahoma City with an additional two community-based sites located in Cleveland and Canadian Counties. The program partners with Oklahoma SoonerStart, the state of Oklahoma’s early intervention system for infants and toddlers, and is funded by the Oklahoma State Department of Education. The Early Foundations model site provides training, mentorship and short-term internships for teachers, parents and other professionals in the use of evidence-based treatment for ASD. In 2010, more than 20 trainings and observations were conducted at the site and 224 professionals were trained. Professionals represented a variety of disciplines including school psychologists, occupational therapists, speech-language pathologists, paraprofessionals, Oklahoma LEND interns, pediatric fellows and families.

- **Interdisciplinary Training on Child Abuse and Neglect**—The Center on Child Abuse and Neglect offers a two-semester interdisciplinary training program in child abuse and neglect for advanced students in medicine, dentistry, occupational therapy/physical therapy, psychology, law, social work, education, public health, nursing, sociology and related disciplines. Established in
1987, the ITP provides specialized training in clinical practice, prevention, policy formation, child advocacy, research and administration in the field of child abuse and neglect. Eighteen students completed the program in the spring of 2010 and included: one pediatric resident, one psychiatrist resident, six psychology interns, one medical student, one public health student, four social work graduate students and four law graduate students. Twenty-one students started the program in the fall of 2010 and included: one psychiatry resident, four social work graduate students, two psychology graduate students, three psychology interns, one psychology post doctoral fellow, one public health graduate student, two pediatric medicine students, one pediatric dentistry graduate student and six law graduate students.

• **Medical Home**—The Developmental and Behavioral Pediatrics Section Medical Home initiative provides technical assistance/training to 15 primary care practices contracting with the Oklahoma Health Care Authority as these practices engage in practice-based quality improvement activities. The intent of the technical assistance/training is to support primary care practices as they implement OHCA prioritized Medical Home components such as developmental screening. As part of the support to primary care practices, the program, in collaboration with the University of Utah, Oklahoma State Department of Health and Oklahoma State Department of Human Services, has developed a Medical Home Web Portal, http://www.medicalhomeportal.org/, which contains Medical Home resources including screening and referral information targeting medical clinicians and families with SoonerCare eligible children and youth.

• **17th Oklahoma Conference on Child Abuse and Neglect and Healthy Families 2010**—The Center on Child Abuse and Neglect recognizes the impact of child abuse and trauma on the physical and mental development of child victims and their families and, therefore, focuses on providing information related to this at the annual conference. There were approximately 450 attendees in 2010 from Oklahoma and surrounding states. The conference invites national and state-wide recognized experts on the subject. The conference was provided through the section’s collaboration with the Office of Child Abuse Prevention at the Oklahoma State Department of Health and OU Medical Center’s Child Protection Team.

• **PCIT**—We continued the Parent-Child Interaction Training Program for therapists this year. Thirty-two therapists from across Oklahoma (including Tulsa, Norman, Claremore, Wewoka, Enid, Muskogee and McAlester), South Carolina, California and New Jersey were trained this year in PCIT. Each training consisted of one week-long workshop and one two-day follow-up workshop approximately two to three months later. Trainees also receive weekly phone consultation with a PCIT trainer to discuss cases and training issues. Select additional sites also have received live supervision of PCIT cases through the use of teleconferencing equipment that allows the trainer to virtually attend trainees’ session and provide immediate feedback and support. We also completed our annual PCIT seminar for practicum students, interns and post-docs. We
had 14 students participate in the training in 2010. They received six weeks’ worth of didactic training followed by weekly live supervision as they completed a therapy case using PCIT. We have developed an advanced training program for PCIT therapists. Two advanced training seminars in PCIT were held, with attendees coming from across the United States, Australia and the Netherlands. In addition, we hosted the seventh Annual National PCIT Conference, which brought together 150 PCIT clinicians and researchers from the United States and several foreign countries to discuss the latest research and clinical innovations in PCIT.

- **Practicum Student Training in Responding to Child Maltreatment**—Seventeen practicum students in psychology and social work from the University of Oklahoma, Oklahoma State University, University of Central Oklahoma, University of Tulsa and Oklahoma City University received clinical mental-health training in services for children.

- **Project PEAK** is a training and support network for educating children with Autism Spectrum Disorders through training, technical assistance, onsite collaborative consultation, information dissemination, program evaluation and quality assurance for educators and related service professionals. Project PEAK services are provided by an interdisciplinary team consisting of certified special education teachers, speech/language pathologists, occupational therapists, board-certified behavior analysts and psychologists. The program is funded by the Oklahoma State Department of Education. One of the priorities of the project is to provide intensive training to school teams in evidence-based practices for conducting assessments for children suspected of having an ASD. In 2010, seven school teams were trained, 32 previously trained teams received follow-up, 17 statewide trainings were provided and 824 participants were trained. Project PEAK also provided 73 classroom consultations and 22 in-service presentations for individual school districts. Individuals trained included special education teachers, general education teachers, school administrators, school psychologists, counselors, occupational therapists, speech-language pathologists, paraprofessionals, Oklahoma LEND interns and families.

- **Residency and Medical Student Trainee Program**—Fifteen PL-2 residents completed the developmental-behavioral pediatric rotation during 2010. In addition, three PL-3 internal medicine-pediatric residents and six St. Anthony’s family practice residents completed the rotation. One fourth year medical student completed a month-long elective. Each trainee’s rotation consisted of supervised clinical experiences on the clinical teams; visits to community programs; instruction in providing parents with difficult news using videotaped, observed communication sessions; didactic material, and critical reviews of developmental and behavioral research.

- **SafeCare Training**—The SafeCare model is used in training provided by the section for the Oklahoma Department of Human Services for Secondary Prevention (High Risk Prevention Program) and Tertiary Prevention (Oklahoma Children’s Services). Secondary Prevention training was provided to seven bachelor’s level home-based providers in Oklahoma and Payne counties. Tertiary Developmental and Behavioral Pediatrics
Prevention training was provided to field workers in the field with consultants that work for the agencies. The consultants were trained to be trainers. Assistance was provided with training provided by the new trainers if they were still learning, if they needed help because of large numbers or if there was a need to monitor fidelity. Eleven consultants were trained or are in the process of being trained to be trainers in SafeCare. All training is provided in conjunction with the training guidelines of the National SafeCare Training and Research Center.

• **Trauma Focused Cognitive Behavior Therapy Training** - Trauma-focused cognitive-behavioral therapy training for therapists continued in 2010 and included 107 total participants. More than 60 therapists from across Oklahoma participated in TF-CBT training at the annual CCAN Conference in September 2010. Additional trainings consisted of one- and two-day workshops during the year. Introductory training was held in April with 30 participants. Assessment training in April included 16 participants. TF-CBT trainees were offered weekly phone consultation with TF-CBT trainers to discuss cases and training issues. Weekly TF-CBT supervision for practicum students, interns, post-docs and staff also was provided.

• **Project Making Medicine** - Honoring Children, Mending the Circle is a cultural adaptation of trauma focused cognitive behavioral therapy. Four trainings per year are conducted with participants learning the original TF-CBT model as well as the adapted model. One training is a Booster Training for therapists who have previously attended and want additional training in the implementation of the model. Approximately 80 clinicians are trained each year and receive six months of follow up consultation via teleconference.

**RESEARCH AWARDS, CONTRACTS AND INDUSTRY AGREEMENTS:**

The Section of Developmental and Behavioral Pediatrics has demonstrated leadership in conducting pediatric health services research on the OU Health Sciences Center campus. Our section conducts extensive epidemiological research, randomized clinical trials, prevention outcome research, and dissemination and implementation studies. In 2010, we continued our success in obtaining federal grants despite federal budget cutbacks and increased competition for research grants. More than $7.6 million dollars was awarded to our section and almost $2.3 million was in federal grants from NIH, CDC, OJJDP, and DHHS. Our Section’s partnerships with State Agencies (Mental Health and Substance Abuse Services, Health and Human Services, Juvenile Justice and Education) have improved our competitiveness for federal grants by funding pilot research as well as the services being evaluated in outcome and dissemination trials. Further, the diversity in the sources (federal agencies, state agencies, industries and private foundations) has enhanced the stability of our research funding. In 2010, our section’s grants and contracts resulted in almost $1 million in indirect dollars collected for OU Health Sciences Center. Total awards for 2010 and the total direct and indirect expenses for grants and contracts are provided in the tables below.

We have completed a study of the use of a methylphenidate patch to treat hyperactivity in
children with autism, presented an abstract of the results to the Society of Developmental and Behavioral Pediatrics, and are preparing a manuscript for publication. A study of atomoxetine to treat hyperactivity in children with Fetal Alcohol Syndrome continues.
<table>
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Total Funding: 2,505,684, 440,266, 2,945,953, 2,853,079
### MISCA/MISCD

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Total: 1,674,883 114,807 1,808,533 1,808,533

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**Developmental and Behavioral Pediatrics**
DEVELOPMENTAL AND BEHAVIORAL PEDIATRICS
RESEARCH CORE STRATEGIC PLANNING

Balanced Scorecard
Objectives

CLINICAL DIVISION

Goals:

1. Increase the number of patients served by increasing the number of WRVU’s
   A. Enhance section internal communication
   B. Connect each employee’s activities to the mission, values and goals
   C. Increase employee satisfaction and commitment

2. Financial
   A. Increase support for the clinical infrastructure of the section
   B. Expand capacity to respond to funding opportunities
   C. Improve the understanding of key stakeholders about the activities of the section

3. Internal Process
   A. Improve the efficiency of our Internal operations
   B. Improve the clinical organization including the space configurations to maximize efficiency
   C. Enhance communication across divisions and programs

4. Learning and Growth
   A. Increase training opportunities for faculty and staff, including cultural diversity issues
   B. Increase the dissemination about evidence-based practices to faculty, staff and community
   C. Increase the opportunities for faculty and staff to participate in research and training activities

5. Reduce Waiting Lists for All Clinics
   A. Action Step: Identify similar programs from other states, review their successful practices for potential models to implement here, within one month of start. Responsibility: Clinical Division
   B. Action Step: Conduct exit and three-month follow-up interviews with patients. Provide incentives to respond to the interviews ongoing. Responsibility: Parent Partner or other clinic team member
   C. Action Step: Establish a wait-list services program that includes interviewing families to determine the most appropriate clinic, connecting them with interim services, informing them of their status on the wait list and determining if the need/question has changed since initial referral
D. Action Step: Develop a model to increase the number of community-based evaluation teams who provide evaluation and diagnostic services using section model. (Developing a schedule for section clinical teams to travel to outlying communities was initial suggestion. Subsequent discussion included recruitment and training of clinicians from communities.)

**UPDATE:** The clinical team has been working hard since the retreat. We have been focused on increased efficiency and improved customer service. The first step was reorganizing the Patient Services Team and implementing changes that should expedite intakes and increase personal contact with families during the referral and scheduling process. We have providers reviewing referrals in the hope that this will improve the match of the patients with the appropriate clinics. We also have had a number of changes in the preauthorization process that we are working hard to accommodate. We are preparing for reaccreditation by CARF and AAAHC in the next year. We always appreciate feedback and suggestions in ways to better improve services to families.

**COMMUNITY DIVISION**

**Goals:**

1. Increase internal and external awareness of current section programs
   A. Action Step: Identify information from each program that can be used for marketing program. Ongoing. Responsibility: Establish workgroup/team to collect information from programs
   C. Action Step: Work with OU marketing to increase on-campus and community awareness. Ongoing. Responsibility: Section PR person and workgroup.
   D. Action Step: Develop/upgrade, including easier-to-use address, each program’s page on the webpage. Responsibility: Janie Braden working with each program.

**UPDATE** No update at this time.
RESEARCH DIVISION

Goals:

1. Translating research findings into everyday language for the community.
   A. Action Step: Identify communities who will be the consumers of the research results
   B. Action Step: Identify strategies for effective communication to different consumer audiences
   C. Action Step: Determine best communication modes (e.g., web-based, fact sheets, newspaper articles, etc.). Identify and include representatives of the consumers on committee.
   D. Action Step: Develop plan support system to help research teams translate research findings for their audiences and develop appropriate communication model.

2. Better computers and software to facilitate data entry, analysis, etc. Related to this was training on computer program applications. There already is an audit of computers. We would like for the Admin Team to request a more thorough accounting of computers, what people’s needs are, etc. Check on “V” computer or impact on process speed, etc.
   A. Action Step: Create questionnaire or assessment tool to determine staff/faculty/section needs.
   B. Action Step: Administer questionnaire (may be combined with questions from other divisions).
   C. Action Step: Have audit of computers conducted-relook, add details.
   D. Action Step: Plan for computers after grants end.

3. Core Research Support: Having a team of individuals that knows the university and federal/state systems and guidelines, integrated financial management, Institutional Review Board coordinator, having a checklist for new projects to follow with all the procedures. This area includes data core support.

UPDATE: We have subcommittees on (a) mapping research information and examples across projects to ease learning from each other, (b) reference and citation data system for the section, (c) data collection procedures, (d) business, accounting and financial support of research endeavors and (e) IRB support. These committees are working but do not yet have products to share. The monthly research faculty meeting has begun.
TRAINING

Goal:

1. Create Community Training and Hire Training and Development Coordinator
   A. The position would have the following responsibilities:
      • Create web-based, online training from experts in the section.
      • Apply for all types of continuing education credits
      • Provide support to all ongoing Section-based training
      • Increase the web-based presence of Section (Facebook, Twitter, etc.)
      • Market Section as a whole, not just regarding training
   B. Position would need the following expertise:
      • Advanced computer and internet skills, including website development and Power Point
      • Excellent PR and communication skills
      • Working knowledge of implementing conferences and online training
      • High level of organizational ability
      • Marketing experience

2. Increase internal and external awareness of current section programs (community-training)
   A. Broaden information on the website and improve the linking of information (community-training)
   B. Utilize section expertise to create web-based training for continuing education and for increased public exposure
   C. Need a survey to determine the following issues:
      • If we had a position – would your program utilize these services?
      • Would any web-based training for your program provide CEU’s to professionals?
      • Would professionals pay for this training?
      • What other responsibilities would you see this position covering?

UPDATE: The training division is recommending the creation of a section-based training coordinator. This position would organize and implement web-based training for the section, as well as update the website in training areas. A survey will be created to receive input from all the different training programs across DBP.

HONORS: Chaffin, Mark Article of the Year Award, Child Maltreatment, 2010
**PUBLICATIONS: Journal Articles**


Continued Publications:

**BOOKS**

**Chapters and Monographs**

**Other**

**Guest Editor:**


**Manuscripts Submitted for Peer Review**


**Presentations**


Bonner, B.L. (2010, Oct) Advances in Mental Health Interventions for Abused Children. Kansas

Bonner, B.L. (2010, Sept) Advances in Mental Health Interventions for Abused Children. Hawaii


Bonner, B.L. (2010, June) Overview of Adolescents with Illegal Sexual Behavior. South Carolina

Bonner, B.L. (2010, Feb) Advances in Mental Health Interventions for Abused Children. Hong Kong

Bonner, B.L. (2010, Feb) Current Information on Children and Adolescents with Problematic or Illegal Sexual Behavior. Norman, OK
Bonner, B.L. (2010, Jan) Psychological Aspects of Child Sexual Abuse and Psychological Maltreatment. Mississippi


Risch, E. C. and Beasley, L. (March 2010). Child Abuse and reporting in the Primary Care Setting. Presentation at Primary Care Seminar, Department of Pediatrics, OU Health Sciences Center.


Schmidt, S. R. (2010, August). Understanding and Working with Clients with Panic Disorder. Presented for the Oklahoma Department of Mental Health and Substance Abuse Services, Norman, OK.


Schmidt, S. R., and BigFoot, D. (2010, August). Advanced Honoring Children – Mending the Circle. Four-day training for Indian Health Service, Oklahoma City, OK.


Schmidt, S. R., and BigFoot, D. (2010, May). *Honoring Children – Mending the Circle.* Four-day training for Indian Health Service, Oklahoma City, OK.

Schmidt, S. R., and BigFoot, D. (2010, April). *Treatment of Adverse Childhood Experiences through Trauma-Specific Interventions for Native American Children and Families.* Invited presentation for the Choctaw Health Services, Talihina, OK.


Schmidt, S. R. (2010, April). *Assessment of Traumatized Children.* Presented for ODMHSAS Child Trauma Services Grant, Oklahoma City, OK.


Schmidt, S. R., and BigFoot, D. (2010, February). *Honoring Children – Mending the Circle*. Four-day training for Indian Health Service, Oklahoma City, OK.

Schmidt, S. R. (2010, January). *Helping Children Impacted by Parental Substance Abuse*. Invited presentation for the OU Health Sciences Center Department of Psychiatry Professorial Rounds, Oklahoma City, OK.


and Implications for Practice. Training on the Treatment of Children with Sexual Behavior Problems. 2 Day Training, Memphis, TN.


EDITORIAL BOARD/AD HOC REVIEWER:

Reviewer

Balachova, Tatiana
Reviewer: Child Abuse and Neglect 1999 - Present
Editorial Translation: Substance Use and Misuse 2006 - Present

BigFoot, Dolores S.
National Institute of Mental Health, University of Oklahoma Press, University of Oklahoma
National Center for American Indian and Alaska Native Mental Health Research Center, University of Colorado Health Sciences Center
Office for Victims of Crime, Office of Justice Programs, Department of Justice
Center on Mental Health Services, Substance Abuse and Mental Health Services Administration, Health and Human Services Administration
Center on Substance Abuse Treatment, Substance Abuse and Mental Health Services Administration, Health and Human Services Administration Journal of Child Maltreatment

Bonner, Barbara
Editorial Board, Journal of Trauma Practice 2001 - Present
Editorial Board, Child Abuse and Neglect, an International Journal 1999 - Present

Chaffin, Mark
Editor-in-Chief (founding), Editorial Board, Child Maltreatment: Journal of the American Professional Society on the Abuse of Children 2004 - Present
Editorial Board, Journal of Consulting and Clinical Psychology 2006 - Present
AD HOC MANUSCRIPT REVIEWER:
Culbertson, Jan
Editorial Board, Psychotherapy: Research and Practice 2005 - Present
AD HOC REVIEWER
Journal of the International Neuropsychological Society 2006 - Present
Psychotherapy: Theory, Research, Practice, Training 2004 - Present
Journal of Consulting and Clinical Psychology 1994 - Present
Journal of Pediatric Psychology 1983 - Present
American Journal of Diseases of Children 1983 - Present
Professional Psychology: Research and Practice 1986 - Present
American Psychologist 1992 - Present

Gardner, Tricia
EDITORIAL BOARD
The Link 1998 - Present
REVIEWER
Child Maltreatment 1999 - Present

Hecht, Debra
AD HOC REVIEWER
Child Maltreatment 1994 - Present
American Psychologist, With: Barbara L. Bonner, Ph.D. 1994 - Present
Violence and Victims, With: Diane J. Willis, Ph.D. 1994 - Present
Cognitive and Behavioral Practice, With: David J. Hansen, Ph.D. 1994 - Present
Education and Treatment of Children 1994 - Present
Journal of Family Violence, With: David J. Hansen, Ph.D. 1994 - Present
Journal of Traumatic Stress 1994 - Present

McGuinn, Laura
AD HOC REVIEWER
Journal of Developmental and Behavioral Pediatrics 2005 - Present
Pediatrics 2006 - Present
Journal of General Internal Medicine 2005 - Present
EDITORIAL BOARD/ AD HOC REVIEWER:

Nelson, Melanie  
AD HOC REVIEWER  

Schmidt, Susan  
AD HOC REVIEWER  
Child Abuse and Neglect, Child Maltreatment 2000 - Present  
The Journal of Consulting and Clinical Psychology

Silovsky, Jane F.  

Wolraich, Mark  
EDITORIAL BOARD MEMBER  
Journal of Developmental and Behavioral Pediatrics 1993 - Present  
Infant and Young Children 2001 - Present  
Attention Magazine 2004 - Present  
Journal of Attention Disorders 2006 - Present  
Journal of Pediatric Psychology 2007 - Present  
Pediatric Care Online 2007 - Present  
GUEST EDITOR  
Infant and Young Children Volume 19, No. 2 April - June 2006  
Pediatric Annals Volume 37, No. 1 2008 - Present  
Psychiatric Annals Volume 38, No. 1 2008 - Present  
CONTRIBUTING EDITOR  
Wolraich, Mark continued
CONSULTING REVIEWER FOR:

Developmental Medicine and Child Neurology
Pediatrics
Nutrition and Behavior
Journal of Pediatrics
Journal of Social and Personal Relationships
Applied Research in Mental Retardation
Journal of Clinical Psychology
Journal of Developmental and Behavioral Pediatrics
Clinical Pediatrics
Infants and Young Children
Journal of the American Medical Association
Journal of Applied Behavioral Analysis
Journal of Special Education
Archives of Pediatrics and Adolescent Medicine
Archives of Physical Medicine and Rehabilitation
Mental Retardation

Research in Developmental Disabilities
Monograph Series - American Association on Mental Retardation
Consultant: Consultations in Primary Care
Mayo Clinic Proceedings
Journal of Abnormal Child Psychology
Ambulatory Child Health
Journal of the Ambulatory Pediatric Association
Journal of Attention Disorders
Collegium Antropologicum
Acta Psychiatrica Scandinavia
Children’s Health Care
New England Journal of Medicine
Archives of General Psychiatry
Advances in ADHD
Assessment

INTERNATIONAL AND NATIONAL COMMITTEES (members, officers, committee members, etc.)

Balachova, Tatiana N.
International Society for the Prevention of Child Abuse and Neglect
Member 1998 - Present
Faculty 2000 - Present
Consultant, ISPCAN EE Project 2004 - Present
American Psychological Association 2000 - Present
Division 37, Child, Youth and Family Services, member
Division 52, International Psychology, member
American Professional Society on Abuse of Children, member 2003 - Present
International Society for Biomedical Research on Alcoholism, member 2008 - Present
Research Society on Alcoholism, member 2008 - Present
American Public Health Association, member 2008 - Present
INTERNATIONAL AND NATIONAL COMMITTEES (members, officers, committee members, etc.)

Bard, David E.
- American Psychological Association 2004 - Present
- American Statistical Association 2001 - Present
- Behavior Genetics Association 2003 - Present
- Society for Judgment and Decision - Making 2002 - Present

BigFoot, Dolores S.
- National Association of Native American Assistance Providers, secretary
- Advisory Council on Mental Health Services, Center on Mental Health Services, Substance Abuse and Mental Health Services, council member
- American Professional Society on the Abuse of Children, member
- National Committee to Prevention Child Abuse, board member
- National Indian Child Welfare Association, board member
- American Psychological Association
  - Division 17 Counseling Psychology (Past)
  - Ethnic and Diversity Committee (Past)
- Oklahoma Psychological Association
- American Association for Counseling and Development
- Society of Indian Psychologists, Past President Membership Representative, past editor - newsletter
- Oklahoma Indian Affairs Commission Task Force on Services to Indian Children and Youth, past chair
- Association on the Disabilities of Indian Children and Youth, board member
- Boys and Girls Club of America
- National Advisory Committee for Family Support, committee member

Bonner, Barbara L.
- Board of Examiners for Ph.D. Adjudication, 2006 - Present
  - University of Calcutta, India
- Board of Councilors of the International Society to Prevent Child Abuse and Neglect
  - Member/past president 1985 - Present
- American Professional Society on the Abuse of Children 1987 - Present
Bonner, Barbara L. continued

Association for the Treatment of Sexual Abuse 1993 - Present
American Psychological Association 1985 - Present
Division 37, Child, Youth and Family Services 1988 - Present
Division 12, Clinical Psychology 1985 - Present
Section 1, Clinical Child Psychology 1985 - Present
Section 5, Society of Pediatric Psychology 1985 - Present
National Alliance for the Mentally Ill 1992 - Present
National Organization for Women 1980 - Present

CONSULTANT

National Catholic Risk Retention Group 1999 - Present
Juvenile Justice Resource Center, Rockville, M.D. 1999 - Present
Administration for Children and Families, U.S. Department of Health and Human Services, Grant Reviewer, Washington, D.C. 1990 - Present

Bureau of Justice Assistance, U.S. Department of Justice, Grant Peer Review Consultant, Rockville, M.D. 1993 - Present
Office of Juvenile Justice and Delinquency Prevention, Department of Justice 1989 - Present
National Center on Child Abuse and Neglect 1988 - Present
Dept. of Health and Human Services
US Department of Justice, Office of Victims, Curriculum Development 1996 - Present

STATE

Oklahoma Committee for the Prevention of Child Abuse (founder) 1987 - Present
member

Oklahoma Professional Society on the Abuse of Children (founder) 1989 - Present
member

Oklahoma Alliance for the Mentally Ill 1991 - Present
Amnesty International 1980 - Present
Oklahoma County Mental Health Association 1985 - Present
Friendship Force of Oklahoma 1979 - Present
Oklahoma Coalition to Abolish the Death Penalty 1989 - Present

UNIVERSITY

Ethics Committee - CHO Member 1993 - Present
Sexual Harassment Committee - OU Health Sciences Center 1991 - Present
Clinical Training Committee Department 1987 - Present
INTERNATIONAL AND NATIONAL COMMITTEES (members, officers, committee members, etc.)

Chaffin, Mark

INTERNATIONAL AND NATIONAL
Fellow, American Psychological Association 2004 - Present
Member, American Psychological Association 1975 - Present
Member, American Psychological Society 2004 - Present
Member, APA Division 37, Child Youth, and Family Services, and Section on Child Maltreatment. Treasurer, 2005 - Present
Fellow, SCM Executive Committee, 2002 - Present 2005 - Present
Member, APA Division 54, Clinical Child and Adolescent Psychology American Professional Society on the Abuse of Children
Member, International Society for the Prevention of Child Abuse and Neglect
Clinical Member, Association for the Treatment of Sexual Abusers
Member, National Organization for the Treatment of Abusers
EXTERNAL PROMOTION/TENURE REVIEWER OR REFEREE
The Citadel
York University, Canada
University of South Alabama
Case Western Reserve University
Medical University of South Carolina
Florida International University
University of Wisconsin, Milwaukee
University of Illinois, Chicago

GOVERNMENT RESEARCH GRANT REVIEW PANELS
Advisory Panelist – National SafeCare Training Institute 2008 - Present

UNIVERSITY COMMITTEES AND ACTIVITIES
Pediatric Psychology Postdoctoral Training Committee 2000 - Present
Clinical Psychology Internship Training Committee 1998 - Present
Clinical Psychology Postdoctoral Fellow Training Committee 2000 - Present
Chair, Developmental and Behavioral Pediatrics
Faculty Search Committee 2001 - Present
Member, Department of Pediatrics Research Committee 2001 - Present
Scientific Reviewer, Presbyterian Health Foundation 2001 - Present
Advisory Committee, OU Health Sciences Center/NIH
General Clinical Research Center 2005 - Present
**Culbertson, Jan L.**

NATIONAL:
Accreditation Committee,
- American Psychological Association: Site Reviewer 1989 - Present
- American Psychological Association - Member 1980 - Present
Division 12, Section 5 (Society of Pediatric Psychology)
Division 12, Section 4 (Clinical Psychology of Women)
Division 12 (Society of Clinical Psychology):
Division 29 (Psychotherapy):
Division 37 (Child, Youth and Family Services):
- Program Committee 1987 - Present

UNIVERSITY:
Developmental Pediatrics Training Committee,
- Department of Pediatrics,
- OU Health Sciences Center 1982 - Present
Clinical Training Committee, University of Oklahoma Health Sciences Center, APA - Approved Internship in Psychology 1982 - Present
Neuropsychology Post Doctoral Fellow Training Committee,
- OU Health Sciences Center 1984 - Present
Clinical Training Committee,
- Oklahoma State Health Internship Program in Psychology 1984 - Present

**Edgington, Carl**

NATIONAL:
- American Psychological Association Division 40 – Neuropsychology

INTERNATIONAL:
- International Neuropsychological Society

**Funderburk, Beverly F.**

NATIONAL:
- American Psychological Association 1990 - Present
- American Psychological Association; Clinical Child Psychology, Section I, Division 37 1998 - Present
INTERNATIONAL AND NATIONAL COMMITTEES (members, officers, committee members, etc.)

**Funderburk, Beverly F., continued**

American Psychological Association, Section on Child Maltreatment of the Division of Child, Youth, and Family Services (Division 37)  
1998 - Present  
American Psychological Association; Division of Psychotherapy, Division 29  
1990 - Present  
American Professional Society on the Abuse of Children, 
National and State Chapter  
1998 - Present  
Oklahoma Psychological Association  
1995 - Present

**Gardner, Tricia**

INTERNATIONAL AND NATIONAL: 
International Society on the Prevention of Child Abuse and Neglect  
1996 - Present  
National Association of Counsel for Children  
1997 - Present  
Oklahoma Bar Association  
1993 - Present  
OBA Young Lawyers Division  
1993 - Present  
Foster Care Review Board  
1993 - Present  
American Professional Society on the Abuse of Children  
1992 - Present  
Oklahoma Professional Society on the Abuse of Children  
1992 - Present  
Interdisciplinary Program on Child Abuse and Neglect  
Alumni/Faculty  
1991 - Present  
Child Protection Team  
2004 - Present

**Hakman, Melissa**

INTERNATIONAL AND NATIONAL: 
Association for the Behavioral Cognitive Therapies  
American Psychological Association  
Southwestern Psychological Association
Hecht, Debra

INTERNATIONAL AND NATIONAL:
International Society for Prevention of Child Abuse and Neglect 2003 - Present
American Psychological Association 1993 - Present
  Section on Clinical Child Psychology (Section 1) 1993 - Present
Division of Clinical Psychology (Division 12) Treasurer,
  Section on Child Maltreatment (Division 37) 2007 - 2010
Association for the Advancement of Behavior Therapy 1995 - Present
Section on Child Maltreatment, Division on Child,
  Youth and Family Services (Division 37) 1996 - Present
American Professional Society on the Abuse of Children 1996 - Present
Home Visitation Specialist/Advisory Board Member 2005 - Present
Head Start - Indian Health Service Training Program in Child
  and Family Wellness using Home Visitation Principles
UNIVERSITY:
CARF Accreditation Committee for the Section on 2004 - Present
Developmental and Behavioral Pediatrics,
Department of Pediatrics, OU Health Sciences Center

Lock, Thomas

NATIONAL
Member, Wisconsin Medical Alumnae Association 1979 - Present
Fellow, Society of Developmental Pediatrics 1985 - Present
Chairman, Nominating Committee 1998 - Present
Fellow, American Academy of Pediatrics 1985 - Present
Section on Children with Disabilities 1991 - Present
Member, Kennedy Fellows Association 1985 - Present
Endowment Committee 1996 - Present
Member, Society for Neuroscience 1990 - Present
UNIVERSITY
Director, Clinical Services OU Child Study Center 2003 - Present
Department of Pediatrics, OU Health Sciences Center
INTERNATIONAL AND NATIONAL COMMITTEES (members, officers, committee members, etc.)

McBride, Bonnie

NATIONAL
Council for Exceptional Children, Division for Early Childhood
Association for Behavior Analysis
Association for Positive Behavior Support
National Association for the Education of Young Children

COMMITTEES
Advisory Board Member Pacific Northwest Chapter, National Alliance for Autism Research 2004 - Present

McGuinn, Laura

NATIONAL
AAP Section on Developmental -
   Behavioral Pediatrics, Executive Member 2008 - Present
Society for Developmental and Behavioral Pediatrics 1998 - Present
   Fellowship Directors Subcommittee Website Design Task Force 2006 - Present
Oklahoma Health Care Authority (State Medicaid/S - CHIP Agency)
   Child Health Advisory Task Force Appointed Member 2007 - Present
Director, Oklahoma Key to Improving Developmental
   and Behavioral Pediatrics 2006 - Present
Fellow, American Academy of Pediatrics 1992 - Present
   Member, Developmental and Behavioral Pediatrics Section 1998 - Present
   Member, Council on Children with Special Needs 2005 - Present
   Member, Council on Community Pediatrics 2005 - Present

STATE
Oklahoma Autism Services State Planning Team Member 2008 - Present
Children’s Oral Health Coalition Member 2008 - Present
Oklahoma State Chapter American Academy of Pediatrics 2005 - Present
   Developmental Pediatrics Committee Chair 2006 - Present
Oklahoma Association of Infant Mental Health Board Member 2006 - Present

UNIVERSITY
Pediatric Developmental Resident Rotation Director 2005 - Present
Pediatric Developmental and Behavioral Fellowship Director 2007 - Present
Faculty Senate College of Medicine Elected Representative 2006 - Present
Schmidt, Susan

NATIONAL
American Psychological Association;
   Division 37: Division of Children, Youth and Families, section on Child Maltreatment
American Professional Society on the Abuse of Children, National and State Chapter

STATE
Oklahoma Psychological Association; Division on Research
Oklahoma Psychological Association Representative
Child Death Review Board Member

Silovsky, Jane F.

INTERNATIONAL AND NATIONAL
American Psychological Association; Clinical Child Psychology, Section I, Division 12;
   Division of Children, Youth and Families, section on Child Maltreatment
American Professional Society on the Abuse of Children, National and State Chapter
International Society for Prevention of Child Abuse and Neglect
Society for Pediatric Psychology
Association for Advancement of Behavior Therapy
Association for the Treatment of Sexual Abusers
   Elected Member at Large for the Child Maltreatment
   section of the Children, Youth and Families Division of the
   American Psychological Association 2004 - Present

STATE
Elected President of the Oklahoma Professional Society on the Abuse of Children 2004
Reelected Board Member for the Oklahoma
   Professional Society on the Abuse of Children 2003 - Present
Member of the Oklahoma Psychological Association
   Board for the Division on Research and Training representative 2002 - Present
Designee to the Oklahoma Psychological Association
   Board for the Division on Research and Training 2002 - Present
Oklahoma Psychological Association designee for the Child Abuse Training and Coordination Council, Oklahoma State Health Department 2000 - Present
INTERNATIONAL AND NATIONAL COMMITTEES (members, officers, committee members, etc.)

Swisher, Lisa
NATIONAL
American Psychological Association
American Professional Society on the Abuse of Children
STATE
Treasurer, Oklahoma Professional Society on the Abuse of Children 2008 - Present
Oklahoma Psychological Association

Wilson, Linda
NATIONAL
American Speech - Language-Hearing Association
Alexander Graham Bell Association for the Deaf
Association for Supervision and Curriculum Development
Council for Exceptional Children
Council for Administrators of Special Education
National Association of State Directors of Special Education
STATE
Central Oklahoma Speech - Language-Hearing Association
Oklahoma Speech - Language-Hearing Association
Oklahoma Association for Children and Adults with Learning Disabilities
Oklahoma Association for Persons with Severe Handicaps
Oklahoma Directors of Special Services
Oklahoma Federation of the Council for Exceptional Children
**Wolraich, Mark**

**NATIONAL**

Diplomat, American Board of Pediatrics

- Member of Program for Maintenance of Certification in Pediatric Subspecialties
- PMCP - Advisory Committee 2003 - 2009

Fellow, American Academy of Pediatrics

- Member, Developmental and Behavioral Pediatrics Section, 1977 - Present
- Member Children with Disabilities Section, 1990 - Present
- Member Task Force on Mental Health 2004 - Present
- Chair of Subcommittee Revising the ADHD Guidelines 2006 - 2011
- Member of CDC Board of Scientific Counselors, Coordinating Center For Health Promotion 2009 - Present

Member, Society for Developmental and Behavioral Pediatrics

Associate Member, Society of Pediatric Psychology Association 1980 - Present

Senior Member, Society for Pediatric Research

Charter Member, American Academy on the Physician and Patient

Member, American Pediatric Society

Member of American Association for the Advancement of Science

Member CHADD Professional Advisory Group 2006 - Present

CDC Workgroup on Pediatric and Adult Environmental Neurobehavioral Test Batteries 2006 - Present
FACULTY

KENNETH COPELAND, M.D.
Professor, Ruth and Paul Jonas
Endowed Chair
Chief of the Section of Diabetes
and Endocrinology
Vice Chairman of the
Department of Pediatrics,
Ambulatory Affairs

STEVEN CHERNAUSEK, M.D.
Professor, CMRI Edith Kinney
Gaylord Endowed Chair
Director of the CMRI Diabetes
and Metabolic Research
Program
Associate Section Chief

PIERS BLACKETT, M.D.
Professor

ANDREW GARDNER, Ph.D.
Professor, CMRI Hobbs-
Recknagel Endowed Chair
DIABETES AND ENDOCRINOLOGY

The section strives to fulfill all areas of the mission of the Department of Pediatrics including patient care, teaching and research. Most members of the section participate in clinical activities, work on individual research projects, and provide education to residents and students from various disciplines. Other team members have a primary focus on research activities, particularly the Children’s Medical Research Institute - supported Metabolic Research Program and the National Institutes of Health funded “Treatment Options for Type 2 Diabetes in Adolescents and Youth” (TODAY) Trial. The section’s mission is to provide superior family - centered pediatric diabetes and endocrine services, incorporating the most recent medical treatments developed through relevant clinical research and teaching.

CLINICAL CARE

Our patient care services are unique in that we are one of the only teams in this region of the United States that provides comprehensive pediatric diabetes and endocrine care to patients and their families. From Dec. 1, 2009 to Nov. 30, 2010, there were 5,075 outpatient clinic visits and 721 inpatient hospital encounters for pediatric endocrinology. These figures do not reflect clinical activity in several Native American outreach clinics throughout the state (see below.) A team of diabetes educators provides extensive support to physicians and families through routine assessments at physician appointments, one-on-one education and 24/7 telephone access. In 2010, we added 124 new diabetes patients to our practice. Thirty of those diabetes patients were transfers-of-care and the remaining 94 were newly diagnosed by our center. Of the newly diagnosed patients, 45 received initial education in the hospital and 49 received it in the outpatient clinic setting. From January 2010 to December 2010, there were 38 children started on insulin-pump therapy.

The section also provides the same comprehensive services to Native American children through partnerships with several tribes across the state of Oklahoma. Clinical services for children and adolescents with endocrine problems, including diabetes mellitus, are provided at Choctaw Health Services in Talihina, Absentee Shawnee Tribal Clinic in

SECTION PROFILE

Number of Faculty - 10
Number of Fellows - 3
Number of Students - 3
Number of Support Personnel - 40
Annual Total Grant Support (direct) - $1,847,978
Annual Total Industry Contracts (direct) - $310,034
Number of Publications and Abstracts - 51
Number of Presentations - 48
Patient Encounters:
  Outpatient = 5,075
  Inpatient = 721

JONI BECK, PharmD, CDE, BC-ADM
Clinical Associate Professor and Clinical Programs Director

STEVE STERNLOF, Ph.D.
Assistant Professor of Research

DAVID FIELDS, Ph.D.
Assistant Professor

KEVIN SHORT, Ph.D.
Assistant Professor

SOWMYA KRISHNAN, M.D.
Clinical Assistant Professor

MINU GEORGE, M.D.
Assistant Professor

Photo by TaylorMade Photography
Little Axe, Citizen Potawatomi Nation Health Services in Shawnee and Carl Albert (Chickasaw) Indian Hospital in Ada. This statewide clinical network serves as the foundation on which research projects designed to address the epidemic of Type 2 diabetes in Native American children are based.

Since 2005, Congenital Adrenal Hyperplasia has been included in the Department of Health’s State Genetics Newborn Screening Program. The long-term follow up coordinator of that program, Traci Schaeffer, RN, is housed in our section and is responsible for the follow-up care of children with CAH detected through newborn screening. She also is actively involved in education workshops at schools, developing support groups for families with disorders of sex development and Turner Syndrome, and coordinates a multispecialty clinic for children affected by disorders of sex development including CAH. In addition, Ms. Schaeffer coordinates the state’s follow up program for children born with Congenital Hypothyroidism and diagnosed on neonatal screening.

EDUCATION

Teaching activities of the section include supervision of residents during elective rotations, didactic lectures, journal reviews and conferences. The Monday morning section conference, attended by all educators, physicians, trainees and support staff, consists of a clinical discussion about challenging patients scheduled for the upcoming week and a review of all current in-patients and consults. The Monday noon metabolic research conference is a venue for discussing the design, implementation and interpretation of research conducted by members of our section. The Tuesday morning conference is held in conjunction with the endocrinology section of the internal medicine department and alternates between a journal club on a diabetes or endocrine-related topic, didactic lecture from a visiting or local expert, or a review of a current or proposed research project. The section also has a Wednesday noon conference specifically designed for junior faculty, fellows and endocrine nurses. These conferences alternate between in-depth discussions of difficult cases (case conferences), including a pertinent and focused literature review, and discussions of fellow and junior faculty research projects with status reports on current and planned projects, new technology and research concepts.

Dr. Krishnan leads an Endocrine Themes course within our section, which provides monthly didactic lectures on basic endocrinology and pathophysiology relevant to pediatric endocrinologists.

Basic science teaching involves participation in the first-year medical student Clinical Correlation course (led by Dr. Copeland and the diabetes education team), providing a case-based review of basic science principles in the context of children with Type 1 and Type 2 diabetes.

In addition to teaching medical fellows, the diabetes and endocrinology faculty trains residents and students from various disciplines. Since 2006, Dr. Beck has mentored clinical resident and fellow rotations for College of Pharmacy PharmD students. Dr. Sternlof currently coordinates behavioral medicine efforts for the section and supervises psychology residents in consultation and liaison services. He provides weekly supervision of one
clinical psychology resident completing a pediatric psychology rotation and ongoing supervision and training of the psychology undergraduates from University of Central Oklahoma in independent psychology research. Each year, our medical faculty supervises medical students interested in a career in pediatric endocrinology in both clinical and research experiences. Our diabetes and endocrine clinical team participates in the education of the hospital nursing staff with diabetes and endocrine in-services to help improve patient care, increase knowledge and reduce medical errors. We conduct lectures on endocrinology to help prepare our staff nurses for upcoming certification exams.

Our section is the recipient of the Macy Nigh Whitener Visiting Professorship Endowment, which was established in 2003 by the Children’s Medical Research Institute to bring cutting-edge research and education to the state of Oklahoma yearly in honor of the beloved governor of the state, George Nigh, and his granddaughter Macy Nigh Whitener. This endowment sponsors a visiting professor who lectures and interacts with research scholars, medical students, residents and diabetes staff off campus. The 2010 event was held at the Skirvin Hotel, and guest speaker Dr. Mary-Elizabeth Patti presented the lecture “Diabetes Risk Across the Lifespan.”

RESEARCH

Research in the section of diabetes and endocrinology involves a wide variety of activities, most involving disorders of growth, sex development and diabetes. Since 2002, the section has participated in the NIH - supported treatment trial for Type 2 diabetes in children (Treatment Options for Type 2 Diabetes in Adolescents and Youth: TODAY, K Copeland, PI), which brings more than $1M annual direct costs to the campus each year. Much of the research in the section is done through the CMRI Metabolic Research Program, focused on Type 2 diabetes in children. The first endowed chair, Dr. Andy Gardner, professor and Hobbs-Recknagel Chair, began July 2005. David Fields, assistant professor, began in June 2005, and Kevin Short, assistant professor, began in August 2006. The second endowed chair, Dr. Steven Chernausek, CMRI Edith Kinney Gaylord Chair and director for the Diabetes and Metabolic Research Program, began in April 2007. Additional faculty recruitment is in progress.

The CMRI Metabolic Research Program is multidisciplinary and available as a resource for metabolic research studies for the entire OU campus. Our two major research awards (the TODAY trial and the CMRI Metabolic Research Program) are a direct result of the emphasis placed by our section on our partnership with several Native American tribes over the past five years. These partnerships form the foundation for nationally creditable research on Type 2 diabetes, a disease that disproportionately affects children of ethnic minority population groups, especially Native Americans.

The section also participates in the TrialNet project, an NIH-funded national trial designed to define the natural history of the development of Type 1 diabetes by following children (primarily first-degree relatives of another child with Type 1 diabetes) known to be at risk for developing diabetes in the near future.
**DIABETES AND ENDOCRINOLOGY**

Dr. Chernausek’s research focuses on hormonal control of growth and the relationship between growth control and metabolic disease. He holds the IND for a study evaluating the long term use of rhIGF-I in children with growth hormone insensitivity. He recently was awarded a five-year grant from the National Institutes of Health to study the metabolic status of children born to mothers with diabetes and pre-eclampsia. Other projects involve examining the effect of IGF-I receptor mutations in humans on growth and carbohydrate status. He also serves as the Research Subject Advocate for the General Clinical Research Center.

Dr. Blackett’s research interests pertain to cardiovascular risk, hyperlipidemia and obesity. He, in collaboration with investigators at the OU College of Public Health and Native American communities, has conducted research on at-risk children and currently works in collaboration with Petar Alaupovic, at the Oklahoma Medical Research Foundation.

Dr. Beck has evaluated a tool to assess the educational needs of families with Type 1 diabetes as well as predictors of learning and retention for children and adolescents with Type 1 diabetes mellitus. These projects are currently being submitted for publication. Research interests are multidisciplinary diabetes patient management and reimbursement of non-physician diabetes services. Based on her research data related to reimbursement for clinical services, establishment of contracts for non-M.D. diabetes services and analysis of such programs has been done with the Oklahoma State Department of Health and Oklahoma Health Care Authority.

Dr. George is a new faculty member and clinical provider in the section. He sees patients at both OU Children’s Physicians and the new Northwest Specialty Clinic. In addition to his clinical duties, he serves as the principle investigator on a study looking at a new oral medication, in addition to Metformin, for Type 2 diabetes in children. He actively has joined in helping with the TODAY Study and also has started a pediatric endocrinology board review session with the pediatric endocrine fellows every week. He will also organize and co-chair the annual Oklahoma American Academy of Pediatrics Pediatric Symposium for 2011 alongside Dr. Copeland.

Dr. Sternlof is the program director for the TODAY Study and currently is researching the use of lifestyle interventions in pediatric obesity and Type 2 diabetes with further interests in the effects of psychological consultation used within the section of diabetes and endocrinology. In addition, Dr. Sternlof works closely with OU and Oklahoma State University in the training and supervision of their psychology practicum students obtaining clinical experience in diabetes pediatric psychology.

Dr. Sternlof is director of Programs for Preventive Health, which includes research-based preventive health programs implemented in the public schools across the state of Oklahoma. He works with the Oklahoma Department of Mental Health and Substance Abuse Services and the Oklahoma State Department of Health in these efforts. He has built a coalition of community partners, public institutions and private agencies in Oklahoma to develop an extensive preventive health network. Through the preventive health programs, he is supervising more than 125 university students from the OU Health
Sciences Center, OU, the University of Central Oklahoma, Oklahoma Christian University, OSU, and Oral Roberts University, who will reach more than 15,000 children. He is also conducting the evaluation and analysis for these programs to investigate changes in lifestyle behaviors, knowledge and attitudes, as well as issues related to mental health. In his charitable work for the community, Dr. Sternlof serves as the director of Mental Health for Edmond Health Organization and sits on the Healthy School Advisory Board for several public schools.

Dr. Gardner’s research focuses on the roles of exercise and body composition on vascular and metabolic function in children, as well as determining the amount of physical activity of children in the community setting. Dr. Gardner has an active research program in exercise rehabilitation of peripheral arterial disease patients and on exercise physiology issues as they relate to older adults. He has had continuous research grant support from the National Institute on Aging since 1991 and currently has a five-year R01 grant from NIA and a three-year grant from the Oklahoma Center for the Advancement of Science and Technology.

Dr. Short’s research interest is regulation of energy metabolism and the role of physical activity in the prevention and treatment of obesity and diabetes. He currently has two funded research studies with two more proposals in review and another two in preparation. The first current project, funded by an NIH CoBRE award, is designed to measure the impact of exercise on meal glucose tolerance in healthy weight and overweight children and adults. Drs. Copeland and Gardner serve as project mentors for this project. The second project, supported by OCAST and CoBRE, examines how a short-term (five weeks) exercise training program affects insulin action and vascular function in overweight children. The goal of that study is to compare the effects of moderate versus higher-intensity exercise.

Dr. Short’s primary pending grant, resubmitted to NIH in November after a favorable review of the initial application in the spring, is a longer-term exercise intervention designed to improve insulin sensitivity and vascular function in sedentary adolescents.

Dr. Short’s research efforts include mentoring Dr. Jeanie Tryggestad, a pediatric endocrine fellow currently in her third and final year. Dr. Tryggestad was awarded grants from the Endocrine Fellows Foundation and the Lawson Wilkins Pediatric Endocrine Society to support her research project. The goal of that work has been to show vascular function changes with age, obesity and Type 2 diabetes in children. She has completed testing with 140 of the 160 targeted children and has begun preparing conference abstracts and an initial manuscript.

Dr. Fields’ research focuses on factors (both in utero and maternal) that impact body composition early in life and what role they play on future disease risk later in life. He currently holds several investigator industry-sponsored studies. He recently showed the validity of air-displacement plethysmography in 2 to 6 year olds with his team being the only site in the country using this technology in this age bracket.

Dr. Krishnan’s research interests include obesity, Type 2 diabetes and bone health. She is especially interested in the interaction between fat and bone. Apart from being a Board Certified Pediatric Endocrinologist, she is also a Certified Clinical Densitometrist and is involved in the Metabolic Bone
**DIABETES AND ENDOCRINOLOGY**

Clinic, Pediatric Clinical Densitometry services and the Pediatrics Brain Tumor Clinic. She is a member of the Education Council of the Pediatric Endocrine Society.

In addition to the above faculty activities, the diabetes and endocrine clinical staff also participate actively in research with current projects pertaining to growth hormone deficiencies and treatment, psychosocial aspects of families coping with newly diagnosed diabetes in a child, Type 2 diabetes and associated risk factors in adolescents and youth, and the utility of tests which might serve as surrogates for the classic oral glucose tolerance test in making a diagnosis of diabetes in at-risk obese children.

**SERVICE ACTIVITIES**

Dr. Kenneth Copeland participates in or leads several departmental, university, and hospital committees including: vice-chairman for Ambulatory Activities, General Clinical Research Center Advisory Council, Student Academic Appeals, Committee on Committees, Clinical Standards, Medical Records, Finance, OUCP Clinical Operations, Medical Directors Committee and the Oklahoma State Department of Health Committee for Newborn Screening. Dr. Copeland assumes a national leadership role with the Lawson Wilkins Pediatric Endocrine Society as past-president, current chair of the History Committee, current member of the Development Committee, recent chair of the Membership Committee he also serves national leadership role in the National American Academy of Pediatrics: recent membership, Endocrine Section; national leadership role in the National ADA: member, Professional Practice Committee; national leadership role in the “TODAY” (NIH DK02-005, U01-DK061230-01-10) diabetes treatment trial: Oklahoma site PI (’02 – present); Co–Study Chair (’05 – present); member, Steering Committee; member, Pharmacology Intervention Committee; member, Standard Education Committee; member, Ancillary Studies Committee; member, Study M.D.’s; member, Recruitment Ideas; member, Antibody Working Group; member, Committee for Oversight of the Protocol; member, Objectives and Outcomes Committee; member, Principal Investigators; vice-chair, Operations Committee.

Dr. Chernausek currently serves as the director of the Metabolic Research Program and is the CMRI Edith Kenney Gaylord Chair in pediatrics. His other involvement includes: Steering Committee of the Study Network of Pediatric Endocrinology and the Maintenance of Certification Committee for the Pediatric Endocrine Society; medical editor for the Pediatric Endocrinology Sub-board of the American Board of Pediatrics; Outcomes and Ancillary Studies Committees for the TODAY trial; and Editorial Board for the Journal of Clinical Endocrinology and Metabolism Membership.

Dr. Blackett’s involvements include the American Heart Association, American Diabetes Association, National Lipid Association, Western Lipid Association (Board Member), Southwest Pediatric Lipid Interest Group, American Academy of Pediatrics, Lawson Wilkins Pediatric Endocrine Society, The Endocrine Society, Pediatric Endocrine Society of Texas Oklahoma Louisiana and Arkansas. Dr. Blackett recently served on the Governor’s Task Force, Promotion of Children’s
Health, for addressing obesity in Oklahoma’s school-aged children.

Dr. Beck serves as a program auditor for the American Diabetes Association National Education Recognition Program Committee. She has been a board member of the National Certification Board for Diabetes Educators from 2007 to 2009, serving on numerous committees. Currently, she is chairing a Mentoring Program Task Force – a joint collaboration between the ADA, NCBDE and the American Association of Diabetes Educators. She served on the ADA Western Oklahoma Leadership Board from 2004 to 2007 and co-chaired the establishment of the Western Oklahoma Family Resource Network in 2006 and 2007. She serves on their Advisory Board. Dr. Beck is on the OSDH Oklahoma Diabetes Prevention and Control Program Advisory Board and a consultant for CCS Medical. Dr. Beck is a member of the following: American Association of Diabetes Educators, American College of Clinical Pharmacy, Endocrine and Metabolism Practice and Research Network Group, American Association of Diabetes Educators – Western Oklahoma Affiliate, American Diabetes Association and the American Pharmaceutical Association.

Dr. Fields currently serves on the University of Oklahoma Speakers Bureau giving approximately six presentations a year. He is a reviewer for numerous journals ranging from diabetes, to obesity, to exercise and nutrition.

Dr. Short serves on the editorial boards of Cardio Renal Medicine (a new journal since 2010), Journal of Cardiometabolic Syndrome (since 2006), and Journal of Aging and Physical Activity (since 2005). His peer-review activities this year included serving on an NIH Special Emphasis panel, reviewing grants for Diabetes U.K. and Biotechnology and Biological Sciences Research Council, and performing manuscript reviews for 12 journals in physiology, diabetes and obesity. Dr. Short gave several presentations including invited talks at national (American College of Sports Medicine, Obesity Society), regional (Central States Chapter of the American College of Sports Medicine) and local conferences (Annual Oklahoma Conference on Child Abuse and Neglect and Healthy Families).

**GRANTS AND FUNDED COLLABORATIVE EFFORTS**

9/15/02 – 2/29/12, “Studies to Treat or Prevent Pediatric Type 2 Diabetes (STOPP-T2D): Treatment of Type 2 Diabetes in Adolescents and Youth (TODAY).” The TODAY Study is a multi-center, randomized, clinical trial consisting of 750 adolescents and youth affected by Type 2 diabetes. The primary goal of the TODAY Study is to compare the safety and efficacy of three treatment regimens for Type 2 diabetes in children and adolescents. Sponsored by the NIDDK. Copeland, KC (PI); Chernausek SD; George, MM (Co-Investigators) $10,223,015

1/15/09 – 2/28/11, “TODAY Genetics Study,” NIH/NIDDK, Copeland, KC (PI) $11,361

4/11/2008 – 1/31/10, “A Phase 3, Randomized, Multi-Center, Open-Label Study to Evaluate the Efficacy and Safety of Leuprolide Acetate 11.25 and30mg Formulations in Children with Central Precocious Puberty” Abbott Laboratories, C8098101, Copeland, KC (PI) $11,158
**DIABETES AND ENDOCRINOLOGY**

8/10/2009 – 8/09/12, “A 12 month, Multi-Center, Open-Label Extension Study to Evaluate the Safety of Leuprolide Acetate 11.25 and 30mg Formulations in Children with Central Precocious Puberty” Abbott Laboratories, Copeland, KC (PI) $6,976

7/1/09 – 6/30/10, “Research and Education through the OU Children’s Diabetes Center” (State Government Contract), Copeland, KC, (PI) $95,215

6/9/08 – 6/8/11, “Safety and Efficacy of Exenatide as Monotherapy and Adjunctive Therapy to Oral Antidiabetic Agents in Adolescents with Type 2 Diabetes,” Eli Lilly and Company, Copeland, KC, (PI) $8,067

7/1/06 - 06/30/11, “Endocrine Long-Term Follow-up” Oklahoma State Department of Health, Copeland, KC (PI) $88,064/year

10/01/04 – 6/30/11, “TrialNet Natural History Study of the Development of Type 1 Diabetes.” TrialNet is an international network of researchers who are exploring ways to prevent, delay and reverse the progression of Type 1 diabetes. Our Center is studying relatives of people with Type 1 diabetes who are at greater risk of developing the disease. Sponsored by the NIDDK, NIAID, NICHD, NCRR, JDRF and ADA Copeland, KC (PI), Blackett, PR, Beck, JK. $100,000

9/15/07 – 6/30/12, “Mentoring diabetes research in Oklahoma”, NIH Center of Biomedical Research Excellence (COBRE) award “Impact of age and exercise on insulin action” 1P20RR024215-01 (Copeland, KC; Gardner, AW, Mentors on Sub-Project) $10,512,079

12/01/10 – 2/28/13, “Type 1 Diabetes Exchange Project,” Jhaeb Center for Health Research Foundation, Inc., Copeland, KC (PI), Beck, JK (Co-Investigator) $26,950.


6/01/00 – 2/28/11, “Genetics and Neuroendocrinology of Short Stature,” Eli Lilly, Copeland, KC (PI) $60,684

1/01/10 - 8/15/10, “Influence of Maternal Diabetes and Pre-eclampsia on Childhood Growth, Obesity, and Metabolism.” American Diabetes Association. Chernausek, SD (PI) $70,994

8/04/10 - 5/31/15, “Prenatal Conditions and the Pathway to Obesity and Diabetes in Children.” NIH/ NIDDK, Chernausek, SD (PI) $1,407,550


11/1/08 - 10/30/11, “Metabolic Studies in Rural Oklahoma,” DJH Foundation, Chernausek, SD (Program Director) $119,945

6/10/10 - 9/30/11, “Impact of Breastfeeding and Obesity on Offspring Body Composition and Growth a Six Months of Age.” Mead Johnson, Inc., Fields, DA (PI). $50,331

5/17/10 - 5/16/13, “Assessment of Growth of Infants Fed a 100 percent Whey Extensively Hydrolyzed Formula.” Nestec, Ltd. Fields, DA (PI) $106,775


9/01/09 - 8/31/10, “Body Composition and Physical Performance Changes over a Season in Elite Athletes.” Portuguese Foundation for Science and Technology. Fields, D.A (Co-Investigator) $184,788

9/1/06 - 7/31/11, “Home-based vs. Supervised Exercise for Claudicants.” NIH, National Institute on Aging. Gardner, AW (PI) $1,446,432

7/1/09 - 6/30/12, “Exercise for women with peripheral arterial disease.” Oklahoma Center for the Advancement of Science and Technology (HR09-035). Gardner, AW. (PI) $135,000
10/25/10 – 10/31/12, “Colesvelam Oral Suspension as Monotherapy or Add-on to Metformin Therapy in Pediatric Subjects with Type 2 Diabetes Mellitus,” Daiichi Sankyo, Inc., George, MM (PI) $262,375


8/01/07 - 10/31/10. HR07-156S “Impact of Age, Adiposity and Exercise on Metabolic Risk.” Oklahoma Center for Advancement of Science and Technology HR07-156S, Short, KR (PI) $134,981

7/01/10 – 6/30/11, “Exercise Mediated Changes in Gene Expression in Peripheral Blood Cells,” College of Medicine Alumni Association, Short, KR (PI) $25,000

12/01/09 - 11/30/10. “Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes.” Endocrine Fellows Foundation, Short, KR (PI- Mentor), Tryggestad, JB (Fellow) $15,000

7/01/10 - 6/30/11. “Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes.” Lawson Wilkins Pediatric Endocrine Society, Short, KR (PI- Mentor), Tryggestad, JB (Fellow) $50,000

1/01/09 - 6/30/11 Evaluation of the Garret Lee Smith Youth Suicide Prevention Grant for the State of Oklahoma. Funded by the Oklahoma Department of Mental Health and Substance Abuse Services. Sternlof, S (PI) $127,388

7/01/09 - 6/30/10. “Evaluation of the Cheyenne and Arapaho Tribes Alcohol and Substance Abuse Program.” Cheyenne and Arapaho Tribes of Oklahoma, Sternlof, S (PI) $7,500


7/01/09 - 6/30/11. “Evaluation of the Oklahoma Responsible Beverage Service and Sales Program.” Oklahoma Department of Mental Health and Substance Abuse Services, Sternlof, S (PI) $13,183

7/01/09 - 6/30/11 Program Evaluation of the Schools for Healthy Lifestyles Program. Funded by Schools for Healthy Lifestyles. Sternlof, S (PI) $47,794

7/01/09 - 09/30/10. Implementation and Program Evaluation for Prevention Programs and Prevention Training. Funded by the Oklahoma Department of Mental Health and Substance Abuse Services. Sternlof, S (PI) $83,232

09/01/10 - 10/31/11. “Evaluation for the Rape Prevention Education (RPE) Program.” Oklahoma State Department of Health, Sternlof, S (PI) $28,000

PUBLICATIONS


DIABETES AND ENDOCRINOLOGY


20. **George, M.** Sinha, Sunil; Mamkin, Irene; Philibert, Pascal; Wilson, Robert; Sultan, Charles; Ten, Svetlana; Bhangoo, Amrit. “Isolated Mild Clitoral Hypertrophy May Reveal 46, XY DSD in Infancy due to 17βHSD-3 Defect Confirmed by Molecular Analysis.” Gynecological Endocrinology (accepted for publication)


22. **Krishan, Sowmya**, Venkataraman Kalyanaraman Book chapter titled ‘Bone Health in Obesity and the Cross Talk between Fat and Bone’ in Global View on Childhood Obesity: Current Status, Consequences and Prevention” accepted for publication by Elsevier/Academic Press August 2010.


38. Gardner AW. Supervised Exercise Therapy Provided by Local Physiotherapists Improves Walking Distance in Patients with Claudication. Evid Based Med (in press).

**ABSTRACTS**


5. Sowmya Krishnan, Brianna C. Bright, Mary Murray, Kenneth C. Copeland, David A. Fields. Impact of overweight status on Bone Mineral Content in Adolescents with Type 1 Diabetes. Abstract submitted to Diabetes Research retreat Oklahoma City, OK


**PRESENTATIONS**

1. **Beck, J.** (December 2010). “Diabetes in the Daycare Setting.” Presented to May Avenue Child Care Center Staff and Families, Oklahoma City, OK.

2. **Beck, J.** (June, August, September and November 2010). “Pediatric Diabetes in the Hospital: What do I need to Know?” Presented to Nursing Staff of the OU Medical Center, Oklahoma City, OK.

3. **Beck, J.** (July 2010). “Transitioning Diabetes Patients in the Hospital.” Presented at Pediatric Resident Noon Conference, College of Medicine, OU Health Sciences Center, Oklahoma City, OK.

4. **Beck, J.** (June 2010). “Using the Mastery of Stress Instrument in Caregivers of Children Newly Diagnosed with Type 1 Diabetes.” Presented at Metabolic Research Conference, OU Health Sciences Center, Oklahoma City, OK.

5. **Beck, J.** (June 2010). “Updates on the CDE® Certification Process.” Presented to the Western Oklahoma Diabetes Educators (WODE), Integris Baptist Medical Center, Oklahoma City, OK.

6. **Beck, J.** (February 2010). “A Hands on Presentation of Carbohydrate Counting and Insulin Dosing in Pediatric Diabetes.” Presented to Nursing Staff of the OU Medical Center, Oklahoma City, OK.

7. **Chernausek, S.** (May 2010) Invited Speaker-13th Annual Primary Care Update, “Pediatric Diabetes Update,” Oklahoma City, OK.


12. **Copeland, K.** (June 2010). Speaker, panelist, and moderator, “A United Force for Health: The Tribes and Medical Research,” 23rd Native American Sovereignty Symposium, Oklahoma City, OK.

13. **Copeland, K.** (August 2010). Speaker, “What’s Been Learned from the TODAY Trial Thus Far?,” “Pathways to Wellness – Native American Research Partnerships,” Oklahoma City, OK.

15. Copeland, K. (November 2010). Speaker, Diabetes Update 2010. “Managing kids with diabetes: are there any special risks or concerns?,” Norman, OK.

16. Krishnan, S., B. Bright, M. Murray, K. Copeland, and D. Fields (November 2010). “Impact of overweight status on bone mineral content in adolescents with Type 1 diabetes.” A poster presentation to the University of Oklahoma Diabetes Summit, Oklahoma City, OK.


19. Fields, D. (September 2010). “It’s not the fat that makes you fat.” An invited address presented to the OU Retirees Association, Norman, OK.

20. Fields, D. (May 2010). “It’s not the fat that makes you fat.” An invited address presented to the Merrick Computing Center, Norman, OK.


33. Short, K. (March 2010). Poster, including LV Pratt, and AM Teague. “Validation and application
of a meal glucose tolerance test.” Oklahoma Centers for Advancement of Science and Technology Annual Research Meeting, Midwest City, OK.

34. Short, K. (April 2010). Poster, including LV Pratt, AM Teague and J Tolbert. “Acute and residual effects of exercise on glycemia, arterial elasticity, and inflammatory markers in adolescents.” Research Day, Department of Pediatrics, OU Health Sciences Center, Oklahoma City, OK.


42. Short, K. (October 2010). Invited colloquia series speaker. “The childhood obesity problem: the role for physical activity.” Department of Nutrition, OU Health Sciences Center, Oklahoma City, OK.

43. Short, K. (October 2010). Grand rounds speaker. “The childhood obesity problem: the role for physical activity.” Department of Pediatrics, OU Health Sciences Center, Oklahoma City, OK.


45. Tryggestad, J. (January 2010). “Hypogonadotropic Hypogonadism: Molecular Basis and Link with Arhinia” Pediatric Endocrine Society of Texas, Oklahoma, Louisiana and Arkansas, Houston, TX.

46. Tryggestad, J. (March 2010). “Lipoprotein Lipase Deficiency: Pathophysiology and Treatment” University of Oklahoma Health Sciences Center Adult Endocrine Grand Rounds, Oklahoma City, OK.

47. Tryggestad, J. (June 2010). “Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes.” Endocrine Fellows Foundation/American Diabetes Association Endocrine Fellows Diabetes Research Forum, Orlando, FL.

48. Tryggestad, J. (November 2010). “Comparison of Vascular Compliance and Endothelial Function in Lean and Obese Children.” University of Oklahoma Health Sciences Center, Harold Hamm Diabetes Summit, Oklahoma City, OK.
MEMBERS OF THE SECTION ALSO ROUTINELY SERVE AS JOURNAL REVIEWER FOR:

- Acta Endocrinologica
- American Journal of Clinical Nutrition
- American Journal of Managed Care
- American Journal of Medicine
- American Journal of Physiology
- American Journal of Physiology: Endocrinology and Metabolism
- American Journal of Physiology: Heart and Circulatory Physiology
- American Journal of Physiology: Regulatory and Integrative Physiology
- American Journal of Primatology
- American Journal of Pediatric and Adolescent Gynecology
- Archives of Sexual Behavior
- British Medical Journal
- British Journal of Sports Medicine
- Clinical Physiology and Functional Imaging
- Circulation
- Diabetologia
- Diabetes Care
- Dynamic Medicine
- Endocrinology
- European Journal of Applied Physiology
- Experimental Gerontology
- FASEB Journal
- Growth Regulation
Hormones and Behavior
International Journal of Body Composition Research
International Journal of Obesity
International Journal of Pediatric Obesity
International Journal of Sports Medicine
International Journal of Sports Nutrition
Journal of Andrology
Journal of Aging and Physical Activity
Journal of American Geriatrics Society
Journal of American Medical Association
Journal of Applied Physiology
Journal of Cardiology
Journal of Cardio Metabolic Syndrome
Journal of Cardiopulmonary Rehabilitation
Journal of Clinical Endocrinology and Metabolism
Journal of Gerontology
Journal of Nutrition
Journal of Pediatric Endocrinology and Metabolism
Journal of Physiology (London)
Journal of Rehabilitation Research and Development
Journal of Sports Science
Journals of Gerontology: Biological and Medical Sciences
Mechanisms of Aging and Development
Medicine Science in Sports and Exercise
Metabolism: Clinical and Experimental
Obesity Research
Pediatric Research
Pediatrics
Physiological Measurement
Psychoneuroendocrinology
Vascular Medicine
PEDIATRIC EMERGENCY MEDICINE

FACULTY

TERRENCE STULL, M.D.,
Professor, Interim Section Chief

AMANDA BOGIE, M.D.,
Associate Professor

RYAN BROWN, M.D.,
Assistant Professor

GREG DUPUIS, M.D.,
Assistant Professor

RYAN KELLER, M.D.,
Assistant Professor

HOLLY KESSLER, M.D.,
Clinical Assistant Professor
**PEDiATRIC EMERGENCY MEDiCIne**

**Clinical Activities of the Section**
Children’s Emergency Department  
Emergency Medical Services for Children  
Child Abuse and Neglect – Child Protection Team  
Forensic Child Abuse Clinic

**Highlights of Annual Year**

a. Pediatric Emergency Medicine Fellowship - Effective July 1, 2010, our fellowship in Pediatric Emergency Medicine began, with Dr. Cathryn Crittenden-Byers and Dr. Sara Lewis Wyrick becoming our first fellows. Dr. Amanda Bogie is the Fellowship Director.

b. Dr. John Stuemky - Received the newly created subspecialty Board Certification in Child Abuse Pediatrics from the American Board of Pediatrics.

**Training**

a. Provide supervision and teaching for OU Housestaff, fellows in Pediatric Emergency Medicine, Housestaff from OU Family Medicine and OU Physician Assistant Program, including residents from outside programs, i.e., Southwest Medical Center and St. Anthony’s Medicine Programs


c. Dr. Bogie is a clinical medicine module mentor and instructor for the first-year medical students to be trained in interview skills and first clinical experience. The “Clinical Medicine” course was previously known as “Principles of Clinical Medicine”

d. Student and resident counseling

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**section profile**

**Number of Faculty** - 12 plus  
1 PA-C; other OU Health Sciences Center pediatric faculty provide coverage to Emergency Department

**Number of Fellows**
Clinical - 2;  
Cathy Crittenden-Byers, M.D. and Sara Lewis Wyrick, M.D.

**Research** - Began July 1, 2010

**Number of Students** - 6 for ED; 7 Child Abuse; 5 PA

**Number of Support Personnel** - 4 office; 2.4 EMS

**Annual Total Grant Support** (direct) - $118,373.39

**Annual Total Industry Contracts** (direct) - 0

**Number of Peer-Reviewed Publications** - 1

**Patient Encounters** -  
1. Emergency Room - 31,530 (includes ER, Urgent Care and sexual - abuse exams)  
2. CARE Center - 40  
3. Child Abuse Consultations - 758  
4. Inpatient Visits - None

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**Photo by TaylorMade Photography**

**Cynthia Nielsen, M.D.,**  
Assistant Professor

**Nadine Rose, M.D.,**  
Clinical Assistant Professor

**Amy Sparkman, M.D.,**  
Assistant Professor

**Ann Morie Spencer, M.D.,**  
Assistant Professor

**John Stuemky, M.D.,**  
Associate Professor

**Dirk Verbrugghe, M.D.,**  
Clinical Assistant Professor

**Robert Williams, M.D.,**  
Assistant Professor
PEDiATRIC EMERGENCY MEDiCINE

e. Regularly scheduled lectures and conferences for residents and fellows, such as Resident Noon Conference, the PEM Lecture Series, Fellow Professional Development Lunches and the PEM Board Review Dinner Club.

f. Interdisciplinary Training Program in child abuse and neglect for graduate-level, two-semester course for students in law, medicine, social work, public health and psychology

g. Emergency Medical Services for Children

h. Pediatric Advance Life Support Courses - 130 students registered for Pediatric Advance Life Support training courses throughout the year

i. Pediatric Symposium, “A Child’s Life Depends On It” - 34 registrants participated focusing on a caregiver’s ability to identify life-threatening events and improve capacity to deliver emergency care to the children

j. Finding Words of Oklahoma Conference (offered by the Child Protection Team) - The 38 registrants for Finding Words were involved with interactive courses that combined lectures with demonstrations and hands-on experience. This conference focused on the necessary skills to conduct a competent, investigative interview of a child abuse victim using the CornerHouse forensic interview process.

Grants, Contracts and Industry Agreements (include annual direct/project period direct)

a. Grants
   i. C3040605, EMSC Partnership Grant (Agency - HRSA), $89,197.42, Jan. 1, 2010 through Dec. 31, 2010
   ii. C3065102, CJA Finding Words Grant (Agency - ACYF/ODHS/ACF), $12,673.93, Jan. 1, 2010 through Dec. 31, 2010

b. Contracts
   i. CARE Center Contract, $35,000, Jan. 1, 2010 through Dec. 31, 2010). This contract provides time and effort payment to the section of Pediatric Emergency Medicine for sexual abuse examinations at the CARE Center.

Industry Contracts - 0
Funded Collaborative Efforts - 0

a. Section Investigator
b. Funding Resource
c. PI Name, Dates, Percent Effort

Publications


National Committees (members, officers, committee members, etc.)

a. John Stuemky, M.D. – National Association of Counsel for Children, Executive Board Member
b. John Stuemky, M.D. – American Academy of Physician Assistants, Board of Directors Member
The Section of Pediatric Gastroenterology and Nutrition continues to be a steadily growing section with expanding horizons. Over the past four years we have increased from three to five pediatric gastroenterologists and one nurse practitioner. We also have added a nutritionist in the clinic. Research is anchored in the lab by Dr. Sferra. Dr. Altaf, our newest faculty member, brings with him expertise in gastrointestinal motility and in 2010, he began doing motility testing in children in the clinic. This is the only facility in Oklahoma to offer this type of testing. He will initiate clinical research through that clinical area. We continue to expand clinical research through our inflammatory bowel disease national collaborative.

Throughout this year, the section has continued making infrastructure changes to accommodate our growing training program in Pediatric Gastroenterology. In 2009, our change to staff the inpatient service with a .5 FTE faculty time initially resulted in a decrease in outpatient encounters without a change in inpatient encounters. Because of the increase in fellows to three fellows in July, we increased inpatient faculty time to a full FTE. That change, coupled with greater service availability through coverage by our fellows, resulted in an 85 percent increase in inpatient encounters. Concurrent with that, our outpatient encounters actually increased 17.5 percent compared with last year, largely from the outpatient activity of our nurse practitioner. She is fully integrated and saw 19 percent of our total outpatient visits in 2010. We have plans to add a nurse practitioner to our inpatient team in the coming year. We also continue expanding the educational structure that accommodates a training program.

Section members actively contribute to the academic and hospital communities. Dr. Marshall continues her service as vice chair for the Institutional Review Board. Dr. Grunow serves on the hospital Credentials Committee. Dr. Sferra serves nationally on the training committee for North American Society for Pediatric Gastroenterology, Hepatology and Nutrition.

**Highlights of 2010**

The highlight of this past year is the successful recruitment of Dr. Judy O’Connor, a pediatric hepatologist. She is the only trained pediatric hepatologist in Oklahoma and was recruited primarily for the
new liver-transplant services on campus; however, her presence in our section will provide a level of expertise for Oklahoma’s children with liver disease that has never before been available. Dr. O’Connor joins us in January 2011.

Our fellowship program is now in its second year and has been very successful. All three fellows we are training are of exceptional quality. We have been successful in the match program for pediatric gastroenterology for 2011 and will have two additional first-year fellows joining us in July 2011, bringing our total number of trainees to five.

The other highlight is continued involvement in the ImproveCareNow collaborative for pediatric inflammatory bowel disease. The collaborative, now in its fourth year, has demonstrated a significant improvement in the number of patients in remission after following the quality improvement principles we have endorsed. This involvement continues to give us national exposure and potential for other research opportunities. The quality improvement leader of the collaborative has secured both an National Institutes of Health grant and a grant from AHRQ which will involve all of the participating sites. Dr. Grunow serves on the Executive Committee of ICN in the role of research director.

Training
Pediatric GI continues with the selective rotation for second-year pediatric and med/peds residents to improve their diagnostic and management skills in outpatient gastroenterology. We also have a rotation of family-medicine residents from the St. Anthony Family Medicine training program.

We have three fellows training in pediatric gastroenterology.

Grants, Contracts and Industry Agreements
1. Oklahoma Center for the Advancement of Science and Technology (HR07-153S). “Gene Therapy for Neuropathic Lysosomal Storage Diseases.”
   PI – Dr. Serra
2. OSDH WIC program: $39,500
3. A multicenter, prospective, long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease. Centocor, Inc.
   PI: Dr. Grunow
4. Industry Contracts – None
5. Funded Collaborative Efforts – None
Publications (abstracts)


National Committees

Dr. Sferra – member of Training Committee for the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition

Dr. Sferra - Training Guidelines Taskforce, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (committee member)
GENERAL AND COMMUNITY PEDIATRICS

FACULTY

PAUL M. DARDEN, M.D.,
Professor and Section Chief,
CMRI James Paul Linn Endowed Chair

JILL E. ADLER, M.D.,
Clinical Assistant Professor

KAREN L. BOWLWARE, M.D.,
Clinical Assistant Professor

JESSICA L. BROWN, D.O.,
Clinical Assistant Professor

CHERYL L. BRYANT, M.D.,
Clinical Assistant Professor

AMANDA S. CHERRY, Ph.D.,
Clinical Assistant Professor

STEPHANIE DELEON, M.D.,
Clinical Assistant Professor

MARIANNE E. DUNLAP,
M.D., Clinical Assistant Professor
In 2010, the Section of General and Community Pediatrics hired five new faculty members and seven new staff members, and significantly expanded its clinical, research, community outreach and educational efforts. More than $1,094,192 in extramural funding has been obtained through grants and contracts activities, with four additional grant applications submitted and pending.

Scholarly activity has seen a large increase, with four articles published, two accepted for publication and four submitted, as well as four book chapters in press. In addition, there were 13 presented abstracts. There have been 12 abstracts submitted for presentation in 2010 that will be presented in 2011, four of which have already been accepted.

In 2009, the section moved its clinics and offices into a brand new building with expanded space. In addition, we achieved Tier 3 status with the Health Care Authority (Medicaid). This beautiful new facility with expanded space should allow us to expand our clinical activity.

The section provides the majority of the teaching for pediatric residents and medical students. Furthermore, three of our faculty members are the directors of the training program and the medical student program. Dr. Gillaspy was awarded a Health Resources and Services Administration grant to develop a new educational component for the Pediatrics and Medicine-Pediatrics residency programs, initiating the first formalized integrated pediatric primary care behavioral health curriculum.

We are working hard to expand the research capacity of the section. Siew Ching Ang, is our recently hired research data analyst. Ashleigh Vogle has also joined us as a research technician. We are developing initial studies for the new Oklahoma Child Health Practice-based Research Network. Plans are in place to advertise and hire two mid-level research-trained faculty members. In addition, we have started the Academic General Pediatric Training Program to train our own researchers. Dr. Ashley Weedn, is our first trainee.

**SECTION PROFILE**

**Number of Faculty:**
- General and Community Pediatrics: 25
- Behavioral Health: 2
- Nurse Practitioners: 6

**Number of Trainees:**
- General and Community Pediatrics: 1
- Behavioral Health: 3

**Number of Support Personnel:**
- Clinical: 23, Administrative: 4

**Publications and Abstracts**
- Number of Peer-Reviewed Publications: 6
- Number of Presentations: 13
- Total Number of Submitted Publications and Abstracts: 39

**PATIENT ENCOUNTERS**
- Outpatient General and Community Pediatrics: 33,331
- Inpatients General and Community Pediatrics: 1,910
- Outpatient Behavioral Health: 1,156
- Inpatient Behavioral Health: 260

**Photo by TaylorMade Photography**
**GENERAL AND COMMUNITY PEDIATRICS**

Collaborations with community organizations are a priority. One of our largest efforts is with the Oklahoma Chapter of the American Academy of Pediatrics. The OKAAP is intimately involved with two section endeavors, one research and the other educational. The OKAAP is jointly sponsoring both the Oklahoma Child Health Research Network and the Spring Continuing Medical Education meeting.

We view 2011 as a year of great opportunity for the Section of General and Community Pediatrics. Our overall goals are 1) to provide more and better care to our patients shown by improving patient satisfaction, 2) to hire at least one additional research trained faculty, 3) recruit at least one fellow, 4) collect our first research data from the practice-based research network, and 5) obtain a grant for extramural support of the practice based research network.

**SECTION OVERVIEW AND FACULTY**

The section is responsible for medical management, patient care, teaching and research activities. Pediatric and medicine/pediatric resident training, including community-based teaching, has been a priority. Community outreach has also been an integral part of the Section’s mission, and has become an increasingly important aspect of our activities in the past years. We intend to continue to expand in this area. The section chief, Dr. Paul Darden, arrived in December 2008. Seven additional providers were added in 2010; five additional providers were hired in 2009 as well, making the last two years our biggest growth years ever.

The section underwent a reorganization in the past year. Dr. Gillaspy agreed to become the research director and Dr. DeLeon will take over as the inpatient director in 2011.

**FACULTY**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>LISA C. HOFFMAN, M.D.</td>
<td>Clinical Assistant Professor</td>
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<tr>
<td>VEENA KHANNA, M.D.</td>
<td>Clinical Assistant Professor</td>
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<tr>
<td>JULIE A. KRODEL, M.D.</td>
<td>Clinical Assistant Professor</td>
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<td>JULIE LEES, M.D.</td>
<td>Clinical Assistant Professor</td>
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<tr>
<td>K. LOU LUDWIG, M.D.</td>
<td>Clinical Assistant Professor,</td>
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<td>LARISSA MADORE, M.D.</td>
<td>Clinical Assistant Professor</td>
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<tr>
<td>MONIQUE M. NAIFEH, M.D.</td>
<td>Clinical Assistant Professor</td>
</tr>
<tr>
<td>MARK I. POGEMILLER, M.D.</td>
<td>Clinical Assistant Professor</td>
</tr>
<tr>
<td>HARRIETTE C. PORTER, M.D.</td>
<td>Clinical Assistant Professor</td>
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</tbody>
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SECTION ORGANIZATIONAL CHART:

PROMOTION AND TENURE

In 2010, Drs. Mark Fergeson and Deborah Shropshire were promoted from assistant professor to associate professor. Drs. Stephen Gillaspy and Casey Hester are being considered for promotion to Associate Professor, which if approved, will be effective July 1, 2011.
GENERAL AND COMMUNITY PEDIATRICS

CLINICAL ACTIVITIES

Primary Care Clinics on Campus

The General Pediatrics Clinic and Pediatric Practice Model Clinic merged providers, staff and patients into a brand new, 20,000-square-foot clinic as part of the new OU Children’s Physicians Building the first free-standing, pediatric multi specialty physicians building in the state that opened in the fall of 2009. It has expanded, updated and improved the facilities available to Oklahoma’s children and their families, as well as OU Physicians, scientists and staff involved in pediatric health care in our state. These merged clinics now operate under the name, Sooner Pediatrics. The new space has 34 exam rooms, computers in every room and all-new equipment. The family-friendly design makes a visit to the doctor’s office or a trip to the hospital more pleasant for both patients and their families. Key elements include:

- A nature-inspired interior including water features, natural light and calming décor
- Retail and food services
- A rooftop garden
- Easy access to doctors’ offices, hospital rooms and other destinations
- Easy-to-navigate halls
- Simplified signage to guide patients and visitors

We provide quality, comprehensive health care to high-risk children in the metropolitan Oklahoma City area. As part of this comprehensive health care, our pediatric psychologists provide integrated behavioral health services within the primary care clinics. The scope of practice in the clinics includes all aspects of health care provided by a general pediatric office. Patient care is delivered using a primary-care team model, whereby each family is assigned either to a faculty member alone (Faculty Practice) to a faculty member and a resident (Resident Continuity Clinic Practice) or to a pediatric nurse practitioner. Clinic support staff is made up of a registered nurse, licensed practical nurses, medical assistants, patient service representatives, billing/referral coordinators and a clinic administrator. Access to dietitian services is available as needed. The comprehensive nature of services provided has qualified this clinic to receive Oklahoma Health Care Authority Tier 3 Medical Home designation. This designation is the highest level and very few clinics in the state have achieved Tier 3 status. Approximately 85 percent of clinic patients are covered under the state’s managed Medicaid contract, and 15 percent are commercially insured. Patient visits increased by over 5 percent. There were 23,178 arrived visits in 2010 as compared to 22,026 patient visits that were arrived in calendar year 2009. Goals for the incoming year include attempts to attract more to capitalize on the new clinic building and increased capacity.

In December 2010, Sooner Pediatrics received a special “Award of Merit” presented to the clinic last month in recognition of an historic achievement. Evaluated according to quality and patient safety standards developed and approved by the OU Physicians Quality Improvement and Risk Management Committee, Sooner Pediatrics scored
100 percent on their October internal comprehensive site review. Since 2005, all clinics are periodically reviewed by the OU Physicians Quality Department. Sooner Pediatrics is the first clinic to achieve a perfect score.

Sooner Pediatrics represents the successful merger of two distinct physician groups and clinics with quite different missions and characteristics. General Pediatrics and Community Pediatrics clinics came together only 16 months ago, coinciding with occupancy and opening of the new OU Children’s Physicians Building. In addition to the challenges a massive relocation typically brings, Sooner Pediatrics was tasked with identifying best practices and processes from the two former clinics, and creating new processes where any gaps existed. Given this background and the short history of the “new” clinic, the results of the audit and review are particularly remarkable.

**Latino Clinic** (formerly Clinica Amistad, or “Friendship Clinic”)

The clinic began in January 1995 as a volunteer-run pediatric practice, in an area of town that could serve a high Hispanic population. In collaboration with the Latino Community Development Agency, the clinic was initially open one half-day per week. The clinic then began to be supported and staffed by OU Health Sciences Center pediatric faculty, and by January 1998, was expanded to five half-days per week. As of July 2000, the clinic has been staffed on a full-time basis to provide care to the Hispanic community’s medically underserved and uninsured children. Any child is welcome, although attempts are made to sign up any Medicaid-eligible children. Currently, approximately 90 percent of our patients are Medicaid-eligible. The clinic is typically staffed by three providers per session. We also have hired a second bilingual nurse practitioner in order to provide more consistent services for our patients. Three providers are bilingual: one faculty and two nurse practitioners. Starting July 1, 2010, two interns now have continuity clinic at this location for the next three years. We hope to continue to stimulate more resident participation in the coming year. Interns also spend a limited amount of time in this clinic during their advocacy rotation.

The section funds a Lead Patient Services Representative/Medical Assistant and translator, four full-time patient service representatives and four medical assistants to assist the physicians. All of these staff members are bilingual and serve as translators as well. Additionally, we have started to expand our behavioral health/pediatric psychology services, and began providing integrated behavioral health primary care services at this clinic in fall 2009. Dietitian consults also are available as needed. The comprehensive nature of services provided also has qualified this clinic to receive Oklahoma Health Care Authority Tier 3 Medical Home designation. Clinic visits totaled 10,153 for 2010, as compared to 9,209 for 2009. This shows remarkable growth, considering approximately 1,650 patient visits were accomplished in the 2000-2001 academic year. We do not expect further growth in this clinic now that we have expanded clinic hours to 7 a.m. to 7 p.m., five days a week. Once a new, larger clinic location is built, approximately three to five years from now, we anticipate rapid growth at Latino Clinic to resume.
Behavioral Health/Pediatric Psychology Clinic
The Behavioral Health/Pediatric Psychology service provided integrated behavioral health services for 1,156 arrived patients at Sooner Pediatrics Clinic and the Latino Clinic in 2010, compared to 728 patients in 2009 - an almost 60 percent increase. The Behavioral Health Consultation Service offers assistance when habits, behaviors, stress, worry, emotions or concerns about physical health or other life problems are interfering with the child’s daily life and/or overall health. The behavioral health consultant works with a child’s pediatrician to evaluate these concerns and provide brief, solution-focused treatment or referrals to appropriate community services. This service participates in the training of psychology interns and fellows, medical students and residents in integrated behavioral health in primary care. Drs. Gillaspy and Cherry also provide traditional outpatient behavioral health treatment through this clinic.

Fostering Hope Clinic
Fostering Hope, a medical home model clinic for children in foster care, has grown rapidly from six visits per week in early 2006 (300 per year), to more than 40 visits per week at the present. Fostering Hope arrived 2,157 patients in 2010, compared to 1,216 in 2009 (a 77 percent increase). In 2007, we added a part-time care coordinator to act as a liaison between foster parents, child welfare and the court, and added a full time nurse clinician. The care coordinator is now a full time position funded by the Oklahoma Department of Human Services contract. The behavioral health/pediatric psychology service provides integrated behavioral health services to this clinic. In addition, Dr. Shropshire identified a pediatrician at OU-Tulsa with similar interests and began the OU Tulsa Fostering Hope Clinic, which is not only providing care to foster children in Tulsa, but is also providing a training site for Child Abuse Fellows in the Tulsa program.

Pauline E. Mayer Shelter
The section provides medical coverage for the Pauline Mayer Shelter, a Department of Human Services shelter that houses children in state custody who do not yet have a foster home. Faculty see all new shelter admits, as well as any child who is ill or injured. In 2010, care was provided to 1,293 children compared to 1,135 in 2009 (a nearly 14 percent increase), and approximately 19,300 children have been provided care since the section became involved in 2001. In addition, the section provides support to the shelter staff, reviewing health policies and taking 24/7 calls from staff that have medical concerns about the children.

Variety Clinics
In fall 2000, we began partnering with Variety Health Clinics at both of their locations, to be their medical director. One of our faculty members provides medical oversight for their nurse practitioners and part-time, on site care for some of their more complicated patients. They also independently employ additional full-time physicians. This calendar year, medical oversight by our section was provided for more than 26,300 patients visits at the downtown Variety Clinic and Mid-Del Variety locations, compared to 29,200 patient visits in 2009 (almost 10 percent decrease). This has helped to give us much more visibility in the community and to provide them with much-needed services.
Reach Out and Read Program
In July 2001, Pediatric Practice Model clinic and the OU Latino Clinic became sites of a national pediatric literacy program called Reach Out and Read. We began facilitating and assisting the General Pediatrics’ Pediatric Care Center Reach Out and Read Program in October 2005. Founded in 1989 at Boston Medical Center as a collaborative project between pediatricians and early-childhood educators, the program has now grown to more than 4,600 sites nationwide. It was first developed because it is well known that children who live in print-rich environments, and who are read to from infancy, are much more likely to learn to read on schedule. The program includes three components. First, trained volunteers read to children in our pediatric waiting rooms while they and their parents wait their appointments. Second, faculty and residents have been trained to promote literacy, and while in the exam room, they give parents concrete advice on how to use books effectively with their children. Third, doctors give children a new age-appropriate book at each well-child visit from ages 6 months to 5 years. The program is funded by various grants from sources including the national ROR program and community funds. In 2009, Dr. Marny Dunlap helped launch a state coalition for Reach Out and Read in Oklahoma. The coalition has grown to 44 clinical sites across the state and distributed more than 39,000 new books annually.

EDUCATIONAL ACTIVITIES
Continuity Clinic Experience
Sooner Pediatrics Clinic provides continuing care experience for pediatric and medicine/pediatric residents, to give them an opportunity to learn by observation and participation both professional and administrative aspects of a pediatric practice in the community. According to RRC rules, a continuity clinic experience is a required part of a pediatric residency program; therefore, it is an integral part of our program. Our Pediatric Continuity Clinic, formerly called Pediatric Practice Model clinic was originally established with a grant from the Robert Wood Johnson Foundation in 1979, but is now supported by section and hospital funds. Each resident has his/her own panel of patients that they follow throughout the entire residency period. There is always an OU faculty attending available on-site in all the clinics, including our Fostering Hope Clinic and our off-campus OU Latino Clinic. Currently, we have two interns in our Latino Clinic and one in Fostering Hope, with the intent to add one or two to each site yearly. Both of these clinics provide our residents with unique training opportunities to provide medical care to patients in a clinic that offers culturally sensitive care.

As direct observation is now a requirement by the RRC, one-way observation windows were installed in Sooner Pediatrics Clinic to allow attending physicians to observe and evaluate residents as they see their patients. Equipment problems have limited our ability to carry out these plans fully in our new building, but we will soon re-introduce this process into our teaching plan. Evaluation will be done based on RRC criteria, such as the residents’ ability to accurately perform a history and physical exam and to interact effectively with each patient. Special attention will be paid to the resident’s teaching skills, and feedback will be provided to each learner immediately following their observed encounter.
Approximately every other month, parents of patients in our clinic also evaluate each resident after their child’s visit. The results of these evaluations are reviewed by the continuity medical director, in order to provide specific feedback and/or counseling to residents in need.

**Inpatient Teaching**

Most of the physicians attend on inpatient wards a total of four to 12 weeks per year. During 2010, our section provided inpatient attending for 1,910 patients, compared to 1,350 pediatric inpatients just a year ago in 2009 (an increase of over 40 percent). During inpatient attending, the faculty provides superior patient care to hospitalized pediatric patients, assisted by pediatric and family medicine residents and medical students who are on their pediatric rotations. Faculty also is responsible for the education of their team on a variety of subjects, usually based in part on current hospitalized patients’ diagnoses. Dr. Karen Bowlware, who also is board-certified in pediatric infectious diseases, also provides infectious disease consultation for inpatients. The behavioral health/pediatric psychology service provided approximately 260 inpatient consultations during 2010, compared to 200 for 2009 (an increase of 30 percent). Consults were provided primarily for patients on the general pediatric medical service and pediatric hematology/oncology. The service provided consults to other pediatric specialty services on an extremely limited basis. This service focuses on training psychology interns and fellows to provide inpatient pediatric psychology services.

**Pediatric Pain Team**

The Behavioral Health/Pediatric Psychology Service participates in the multidisciplinary pediatric pain team, which provides inpatient pain management services.

**Pediatric Psychology Training Activities**

Dr. Gillaspy serves as the director of the pediatric psychology emphasis area within the Clinical Psychology Internship and Fellowship Training programs. Dr. Cherry also serves as a supervisor for psychology interns and fellows. During 2010, nine psychology interns and four psychology fellows engaged in supervised clinical training within the section. Additionally, two psychology fellows engaged in supervised research conducted within the section.

- **Primary Care Psychology Seminar**

Dr. Gillaspy co-directs this twice-monthly seminar designed to assist in the education and training of psychology interns and fellows in integrated behavioral health services in primary care. Approximately 15 individuals attend each session, ranging from psychology faculty, interns and fellows, to practicum students.

- **Motivational Interviewing Workshop**

Dr. Gillaspy brought in Thad Leffingwell to provide a full day clinical workshop in MI. For this year’s workshop we collaborated with the OU Clinical Skills Education and Testing Center and utilized standardized patients for live demonstration of MI skills. Approximately 30 individuals attended the workshop, ranging from psychology faculty, staff and interns, to fellows.

**Pediatrics Residency Program**

Dr. Lou Ludwig served as program director (0.75 FTE) until November 2010, when Dr. Casey Hester became program director, with Dr. Jill Warren continuing to serve as associate program director (0.25 FTE). The Residency Program is its own section and its activities are reported separately in the Department of Pediatrics report.
Health Resources and Services Administration Residency Training in Primary Care Grant

Dr. Stephen R. Gillaspy was awarded an Health Resources and Services Administration Residency Training Primary Care grant to create and implement a new educational component for the pediatrics and medicine-pediatrics residency programs, initiating the first formalized integrated pediatric primary care behavioral health curriculum. This will be composed of several specific training modules developed to provide both targeted didactic training and clinical integration of these skills with real and simulated patients. Residents also will receive training in providing brief motivational interviewing. Clinical integration of these skills will occur through multidisciplinary case conference presentations, dual interviewing (a practice where physician and behavioral health providers jointly interview patients), and use of standardized patients with formal individualized feedback.

This grant has been awarded for five years starting in 2010, in the amount of $759,608 direct costs.

Pediatric Clerkship Program

The CMRI/Harris D. Riley, Jr., M.D., Chair in Pediatric Education was created in 2008 in order to foster excellence in pediatric education at every level within the OU College of Medicine. The resources provided by the chair are dedicated to fostering innovative educational methods and educational research. Dr. Mark Fergeson, who was appointed in October 2008, is the first recipient of this chair. His appointment specifies that he will spend 50 percent of his time working on pediatric medical student education.

The primary time commitment in this area is administrating the pediatric clerkship for 130 to 140 third-year medical students. In this capacity, he coordinates all educational activities for the six-week pediatric clerkship for third-year medical students on the Oklahoma City campus. This involves writing the course objectives, designing the curriculum, and evaluating and providing feedback and grades for all third-year medical students.

Faculty-Mentored Research by Residents

Dr. Paul Dasari, continues to be mentored by Dr. Darden and has submitted “Role of Doctors’ Recommendations in Adolescent Vaccine Rates” for presentation at the Pediatric Academic Society annual meeting.

New Academic General Pediatrics Training Program

The Section of General Pediatrics established a training program in academic general pediatrics, on Jan. 1, 2010. The program will have a two to three year duration and requires enrollment in a master’s-level program at the OU Health Sciences Center College of Public Health. Receipt of a master’s degree in public health or in clinical and translational science will be available for trainees during the first portion of the program. Two research projects, with resulting presentation and publication, are expected by completion of the program. In addition to the educational and research requirements, scholars will spend 20 percent of their time in an outpatient setting and provide inpatient coverage throughout the program’s length. Dr. Ashley Weedn, the section’s first trainee, started the program on Jan. 1, 2010. Dr. Weedn submitted a proposal this November that was selected to compete in the second round of the 2011 Academic Pediatric Association/Agency for
Healthcare Research and Quality Young Investigator Award Program. She also presented at the 2010 Pediatric Academic Society Meeting and has had an abstract accepted for platform presentation at the 2011 Southern Regional Meeting, “Obesity Prevalence in Low Income Preschool Children in Oklahoma,” as well as an abstract under review for the 2011 Pediatric Academic Society Meeting. In November 2010, the program applied for accreditation through the Academic Pediatric Association.

**Continuing Medical Education Conference April 2010**

Our section was selected to host the Department of Pediatrics’ annual CME Conference, held April 23 and 24, 2010. The theme was “Advances in General Pediatric Medicine.” The conference focused on a wide range of medical issues for infants, children and adolescents, giving today’s health care professional the information and tools they need to provide the best possible care to their patients. This conference was a collaboration between the Oklahoma chapter of the American Academy of Pediatrics and OU Health Sciences Center Department of Pediatrics. Approximately 50 medical practitioners in the metro area attended two days of lectures, as well as a hands-on half-day workshop. Dr. Paula Duncan was the keynote speaker, with her talk, “Getting from Guidelines to Busy Practice – Can it be Done?” The conference covered a range of general pediatric topics, with guest speakers including: Kevin L. Haney, DDS - “Pediatric Dentistry – What Every Pediatrician Needs to Know”; Emilie Henry, M.D. - “Pediatric Intensive Care”; Deborah Shropshire, M.D. - “How to Change the World: Health Care for Foster Kids”; Muhammad Altaf, M.D. - “Evaluation and Management of GI Motility Disorders in Children”; Anjan Shah, M.D. - “Sudden Cardiac Death in the Young: What the Primary Care Practitioner Needs to Know”; Chaouki K. Khouri, M.D. - “Evaluation and Management of Headaches”; Terrence Stull, M.D. - “Pediatric Infectious Diseases”; Michael Baxter, D.O. and Sarah Passmore, D.O. - “Intimate Partner Violence and Child Abuse”; Edward Legako, M.D. - “Pediatric Obesity and Lawton Fit Kids Coalition”; and Paul M. Darden, M.D., and JW Hendricks, M.D. - “Practice Based Research”. Planning committee members included Paul Darden, M.D., Lou Ludwig, M.D., Casey Hester, M.D., and Monique Naifeh, M.D.

**Academic Pediatrics Association Educational Scholars Program**

Dr. Fergeson was accepted into the APA Educational Scholars Program. This program targets present or future faculty in academic pediatrics who wish to build their skills in educational scholarship. Educational scholarship is the development, implementation, evaluation and/or dissemination of educational interventions or evaluation methods.

Dr. Fergeson’s project for the ESP involves designing and teaching an elective course titled, “The Art of Observation: Learning to Look,” as part of the OU College of Medicine’s medical humanities enrichment track. The course will enroll 18 to 20 second-year medical students and will be taught in eight two-hour sessions over the course of a semester. The first course will be taught in the Spring 2011 semester.

Several medical schools have developed such a curriculum and a few have studied their effectiveness. They have not, however, assessed whether or not the skills learned translate into improved patient care.
or whether or not they persist into the clinical years of training. Dr. Fergeson’s project will expand the evaluation of this curricular innovation to include these areas.

All medical students at our institution participate in an observed structured clinical examination at the end of the third year. Students who participate in the course will be compared to a group of control students, in their ability to accurately observe and record important visual clues that are often overlooked by students during the OSCE. To our knowledge, this would be the first assessment of the effectiveness of an art observation curriculum in a simulated clinical scenario. Dr. Fergeson’s mentor on this project is Alix Darden, Ph.D.

OU College of Medicine
Dr. Fergeson is the course instructor for “The Art of Observation: Learning to Look,” a class for first- and second-year medical students. Skillful observation is an essential component of the practice of medicine. In this course small groups of students will enhance their observational skills by learning to keenly evaluate works of visual art (paintings, sculpture and photographs.) This will help students, in turn, to more carefully observe their patients’ body language, facial expressions, clothing, etc. and to become more sensitive to the importance of these factors to a patient’s life context and story.

COMMUNITY OUTREACH AND SERVICE ACTIVITIES

Reach Out and Read
Dr. Dunlap continues to work with Smart Start Central Oklahoma to expand Reach Out and Read in central Oklahoma. Smart Start Central Oklahoma has been helping to fund ROR in many of the OU Children’s Physicians clinics including Sooner Pediatrics Clinic, the Latino Clinic, the Fostering Hope Clinic, the Hope Clinic and the Family Medicine Clinic as needed this past year.

Dr. Dunlap serves as the medical director for Reach Out and Read Oklahoma. Reach Out and Read Oklahoma receives funding from the Inasmuch Foundation for expansion activities in the Oklahoma City area. The Tulsa-area expansions are funded by the George Kaiser Foundation.

Dr. Dunlap also serves as a Reach Out and Read Regional Trainer.

Oklahoma Health Improvement Plan
Dr. Dunlap co-chaired the OHIP Child Health Plan Panel. The panel spent more than nine months convening shareholders and experts across the state to develop the first comprehensive child health plan for the state.

Academic Pediatric Association
Dr. Dunlap is the co-chair for the Region 7 chapter of APA, which includes Arkansas, Louisiana, Oklahoma and Texas.

Dr. Darden is on the Steering Committee of the APA Continuity Research Network.

Pediatric Research in Office Settings (PROS)
Dr. Darden is the Epidemiology Section representative to the steering committee of PROS.

Dr. Darden is the alternate coordinator for Oklahoma to AAP PROS.

Maintenance of Certification in Pediatrics
Dr. Monique Naifeh and Dr. Jessica Brown are question writers for the Maintenance of Certification in Pediatrics exam.
Dr. Dunlap chairs this board, which also was appointed in 2009 to serve as the State Early Advisory Council. The SEAC in 2010 received a $1.6 million federal grant over three years. She also serves on the leadership team for Smart Start Central Oklahoma.

Dr. Naifeh serves on the board and was appointed chair of that board’s data system and coordination work group.

Safe Kids Oklahoma
Dr. Lees is second vice president and member of the board of directors for Safe Kids Oklahoma, a nonprofit with the mission to prevent unintentional injuries to children in Oklahoma.

OK Department of Human Services
Dr. Shropshire serves as the medical director for children in foster care. Dr. Gillaspy serves as a consultant to Oklahoma Child Welfare.

Counsel on Medical Student Education in Pediatrics
Dr. Fergeson serves on the curriculum committee for COMSEP.

Computer Assisted Learning in Pediatrics Program
Dr. Fergeson serves as case author for CLIPP and serves on the CLIPP editorial board.

Oklahoma Behavioral Health Screening Council
Dr. Gillaspy serves on this council.

Oklahoma Behavioral Health Development Team
Dr. Gillaspy serves as a member of this development team.

Oklahoma Psychological Association
Dr. Gillaspy is a board member and serves as the chair of the Division for Research, Academics and Training.

Mayo Clinic
Dr. Darden was honored with a visiting professorship in the Department of Pediatrics and Adolescent Medicine at the Mayo Clinic in Rochester, Minn.

Public Health Report
Dr. Darden serves as guest editor (with Philip Smith and David Wood) for the Public Health Report Supplement on Assessment of Vaccination Coverage among Infants, Adolescents and Adults, 2010/2011.

Westminster Junior High School, Oklahoma City
Dr. Fergeson volunteers to teach sexual education and health.

Harding Charter Prep High School, Oklahoma City
Dr. Stewart leads a mentoring program for urban OKC high school students. The program has trained 16 mentors over the past 18 months, three of whom are former or current pediatrics residents. As part of the program, there is an on-campus club meeting called “Impact” each week that averages 100+ students in attendance. It focuses on healthy relationships and risk reduction. Dr. Stewart is in charge of mentoring the senior male students and is currently building or has built relationships with 20 students.

The Garden, Oklahoma City
Dr. Stewart is the physician consultant to this group home for parenting teens and their children. This group home is currently under development.
Angels Foster Family Network, Oklahoma City
Dr. Lees is on the board of directors for the nonprofit foster care agency providing foster homes for children ages 0-3 years.

Court Appointed Special Advocates for Children of Oklahoma County
Dr. Krodel serves on the board of directors of CASA of Oklahoma County.

Oklahoma State Medical Association Physicians Campaign for a Healthier Oklahoma
Dr. Ashely Weedn is a member of this campaign.

Oklahoma State Medical Association Obesity Workgroup
Drs. Ashely Weedn and Stephen R. Gillaspy are members of this workgroup.

Oklahoma Chapter of the American Academy of Pediatrics Obesity Committee
Drs. Stephen R. Gillaspy, Jessica Brown and Monique Naifeh are members of the Obesity Committee. Dr. Ashley Weedn serves as the chair of this committee.

Oklahoma Health Care Authority
Dr. Gillaspy serves as a Child and Adolescent Level of Care Utilization System trainer for OHCA.

Oklahoma Department of Health/Postpartum Depression Workgroup
Dr. Gillaspy is a committee member of this workgroup.

New Academic General Pediatrics Training Program
The Section of General Pediatrics established a training program in Academic General Pediatrics, beginning Jan. 1, 2010. The program will have a two-to-three year duration and requires enrollment in a master’s level program at the OU College of Public Health. Receipt of a master’s degree in public health or science will be required during the first portion of the fellowship. Two research projects with resulting presentation and publication are expected by completion of the program. In addition to the educational and research requirements, fellows will spend 20 percent of their time in an outpatient setting and provide inpatient coverage throughout the program’s length. In November 2010, the program applied for accreditation through the Academic Pediatric Association. Dr. Ashley Weedn is the section’s first scholar.

New Staff
In August of 2010, Siew-Ching Ang, was hired as the section-dedicated research data analyst. As the research data analyst for the Section of General and Community Pediatrics, Dr. Ang provides consultative and collaborative biostatistical and epidemiological support, as well as general data management, analytical, computing and writing support. In her previous work with Oklahoma Medical Research Foundation, she maintained and analyzed over 100,000 cases and 10,000 variables of stratified national and state level datasets using SAS. In 2010, Dr. Ang presented a workshop at the 23rd Annual Primary Care Research Methods and Statistics Conference, “The Quest for the Holy Grail of Patient-Centered Research—Finding the Appropriate Denominator.”
GENERAL AND COMMUNITY PEDIATRICS

An honors graduate of Oklahoma State University and Psi Chi honoree, Ashleigh Vogle, also was hired as a section-dedicated research technician.

Oklahoma Child Health Practice-Based Research Network

Established in the autumn of 2009, 12 practices delivering health care to children in three Oklahoma counties have been enrolled in a new practice-based research network. The mission is to improve the health of all Oklahoma children by assisting pediatric primary care practice with improved access to information, education, technology and the generation of new knowledge through practice-based research. The network is registered through Agency for Healthcare Research and Quality and has laid the groundwork for an initial study of headaches in children in 2011. In 2010, the PBRN coordinator received a travel award from AHRQ to support attendance at the annual meeting. Preliminary clinic and patient demographics have been collected on each practice. The network’s first research protocol, “Headache Prevalence and Characteristics in Oklahoma Children,” is currently under development.

Academic Pediatric Association’s CORNET

Drs. Marny Dunlap and Lou Ludwig and Jana Butcher, ARNP, are collaborating with the Ambulatory Pediatric Association’s Continuity Research Network program, for which Dr. Darden also serves as a research consultant to the steering committee. Our clinic has become one of 25 national pediatric continuity practices that have been enrolled in a study looking at implementation and evaluation of the new Bright Futures Curriculum. We plan to study implementation of educational curriculum to pediatric residents through a randomized controlled trial.

The two areas of importance for the study are promotion of oral health and prevention of iron deficiency. Five residents have been selected to participate. Residents will be randomized to one of two groups and then receive education accordingly. Each resident will recruit three families for the study. Before and after their completion of the curriculum, residents will be observed with families by a faculty member, using a standardized clinical observation form.

Annual OU Health Sciences Center Department of Pediatrics Research Day

Dr. Casey Hester serves as founder and chair of the Annual OU Health Sciences Center Department of Pediatrics Research Day, an event composed of trainee research presentations and a poster symposium. She also developed and maintains the Research Noon Conference Series for the pediatric residents, which is an annual series of lectures covering research basics including biostatistics, epidemiology, authoring case reports, and poster creation.

A list of posters presented by section members at the OU Department of Pediatrics Research Day on April 23, 2010 follows:

1. Associations with Adolescent Immunization. Paul M. Darden, M.D., Paul Dasari, M.D., Laura J. McGuinn, M.D.

2. Establishment and Characteristics of a Practice-Based Child Health Research Network in Oklahoma. Paul M. Darden, M.D., Laura J. McGuinn, M.D., J. W. Hendricks, M.D., Kathy J. Kyler, M.S., Dee Kessler, B.S.
3. Reliability of the Postpartum Depression Screening Scale with Mothers of Infants in the Neonatal Intensive Care Unit. Klanci McCabe, Ph.D., Stephen Gillaspy, Ph.D., J. Arthur Gillaspy, Ph.D., Ryan Blucker, M.S., Amy Cherry, Ph.D., Melissa R. Mignogna, M.S., Angela Roddenberry, Ph.D., Carla Hetherington, MS, ARNP, Mary Anne McCaffree, M.D.

4. Pott’s Puffy Tumor in a Five Year Old Male. Adrienne Kesinger, M.D., John Ruth, M.D., Paul Digoy, M.D. and Casey Hester, M.D.


RESEARCH GRANTS ACTIVITY

Funding Opportunity Announcement: Health Resources and Services Administration-10-235 – FUNDED 2010

- Title: “Pediatric Resident Training in Behavioral Health”
- Total Direct Costs Awarded: $759,608
- PI: Stephen R. Gillaspy, Ph.D.
- Collaborators: Oklahoma State University
- Description: Pediatric primary care providers must be trained in new models of care to successfully achieve the goals of Health People 2010. New models of care need to be based on a biopsychosocial and family systems model of care to effectively address both the medical and behavioral health issues of the patient and larger family system. Such new models are integral to addressing chronic disease management and care for underserved and disadvantaged populations. The proposed project will create and implement a new educational component for the Peds and Meds-Peds residency programs, initiating the first, formalized integrated pediatric primary care behavioral health curriculum. This curriculum will be composed of several specific training modules developed to provide both targeted didactic training and clinical integration of these skills with real and simulated patients. The targeted didactic training will involve implementing a new and innovative didactic behavioral health curriculum into the existing Resident Noon Lecture Series and Pre Clinic Conferences. Additionally, residents will receive training in providing brief motivational interviewing. Clinical integration of these skills will occur through multidisciplinary case conference presentations, dual interviewing (a practice where physician and behavioral health providers jointly interview patients) and use of standardized patients with formal individualized feedback.

Oklahoma Tobacco Research Center, Oklahoma Tobacco Settlement Endowment Fund Seed Grant – FUNDED 2010

- Title: “Further Development and Testing of an Interactive Web-based Program to Facilitate Readiness and Motivation for Smoking Cessation”
GENERAL AND COMMUNITY PEDIATRICS

- Total Direct Costs Awarded: $49,724
- PI: Stephen R. Gillaspy
- Collaborators: Thad R. Leffingwell, Oklahoma State University
- Description: This is a randomized, controlled, intervention study that will compare changes in parental motivation and readiness to engage in smoking cessation after the delivery of a computer-based smoking cessation program versus treatment as usual. The current computer program focuses on the assessment of the participant’s smoking behavior and the delivery of personalized feedback regarding their smoking behavior. Modifications to the new program will include the removal of the carbon monoxide testing, inclusion of all baseline and follow-up assessment into the computer-based program, and the inclusion of a link directly to the Oklahoma Tobacco Settlement Endowment Trust “click to call” option (allowing patients to immediately self-refer for cessation support).

Oklahoma Health Care Authority – FUNDED 2010

- Title: “Feasibility Study of a Primary Care Mental Health Tool”
- Total Direct Costs Awarded to General and Community Pediatrics: $19,292
- PI: Mark Wolraich, M.D.
- Co-Investigators: Stephen R. Gillaspy, Ph.D., Marny Dunlap, M.D.
- Description: The purpose of this project is to provide the Oklahoma Healthcare Authority with the following services and recommendations: recommendations for screening tools for primary care physicians to use to screen children youth and adults for mental illness; a field test of the instruments with the primary care physicians (family practitioners and primary care pediatricians) at the University of Oklahoma Health Sciences Center to assess for feasibility, ease of administration and scoring and acceptability by practitioners, patients and family members; a revision of the scores based on the field test; recommendations for an implementation plan to be administered by OHCA to its practitioner members; and an evaluation of the implementation that will include a survey of the participating practices and an analysis of OHCA billing records to determine the frequency of use of participating practices.


- Title: “Teaching Vaccine Safety through the APA’s Teaching Immunization Delivery and Evaluation (TIDE) Online Curriculum”
- PI: Connie MacKay, Associate Director, Academic Pediatric Association
- Total Direct Costs Awarded to OU Health Sciences Center: $39,518
- Subcontract PI: Paul M. Darden, M.D.
- Collaborators: APA, University of Rochester, OU Health Sciences Center, Medical University of South Carolina
- Description: The purpose of this project is to reinvigorate the partnership between the
Academic Pediatric Association and the Center for Disease Control and Prevention’s National Center for Immunization and Respiratory Diseases in order to develop an effective vaccinesafety curriculum for pediatric residents which can be disseminated through an online resource previously developed by the APA with CDC funding: Teaching Immunization Delivery and Evaluation web-based curriculum.

### Funding Opportunity Announcement

**HRSA-11-016 - PENDING**

- **Title:** “National Pregnancy Risk Assessment Monitoring System Data: Prevalence and Risk Factors for Postpartum Depression”
- **PI:** Stephen R. Gillaspy
- **Collaborators:** David Thompson, OU Health Sciences Center School of Public Health
- **Description:** Postpartum depression is associated with significant negative child health outcomes as well continued negative maternal health outcomes. Due to the public health significance of PPD, the reduction of depression after delivery, as a postpartum complication, is one of the Healthy People 2010 targets for reduction of maternal illness and complications due to pregnancy. Although it is estimated that 10 percent to 15 percent of mothers experience PPD within the first year, there are no national population-based estimates of the prevalence of PPD. The proposed project will perform secondary data analysis on an existing dataset, the 2009 national Pregnancy Risk Assessment Monitoring System dataset. PRAMS is a population-based surveillance project administered by the Centers for Disease Control with state collaboration.

- **Title:** “Communication Intervention for Adolescent Immunizations: Cluster Randomized Trial”
- **PI:** Paul M. Darden
- **Collaborators:** Medical University of South Carolina, University of North Carolina – Charlotte, Mayo Clinic
- **Description:** Though recommendations for adolescent immunizations have increased, adolescent immunization rates fall well below childhood rates. Missed opportunities for immunization are documented, though the conversations that contribute to vaccine hesitancy and refusal are less documented. This study will record 120 spoken interactions pre- and 120 post-intervention between providers and diverse adolescents and parents in South Carolina and Oklahoma discussing recommendations for tetanus/diphtheria toxoid/acellular pertussis, meningococcal conjugate vaccine, and human papillomavirus vaccine at preventive health visits. Using methods from discourse analysis, patterns of communication and decision making will be compared to parental willingness to accept vaccines to determine best practices. Applying an integrated health behavior model, findings will be used to develop, test and implement a provider-patient/parent communication intervention in two pediatric practice-based research networks representing multicultural populations to monitor variations for cultural tailoring.
GENERAL AND COMMUNITY PEDIATRICS

Funding Opportunity Announcement
RFA-RM-10-011 - PENDING

- Title: “Transforming Clinical and Translational Research in Oklahoma”
- PI: Hal Scofield, M.D.
- Collaborators: Paul M. Darden, associate director of Community Engagement Care
- Description: The aim of this proposal is to create the Oklahoma Clinical and Translational Sciences Institute to serve as a home for clinical and translational research in the state of Oklahoma. With only two major cities, Oklahoma City and Tulsa, the population in the state and the health care industry are concentrated, but there are large segments of the population that are rural, American Indian and/or economically disadvantaged. The state of Oklahoma, led by the OCTSI, can be a population laboratory that is a tractable and feasible venue for investigating public health by methods from early laboratory-based translational research to late phase practice-based translational research. There is breadth and depth of research among the institutions represented and this is especially true for areas which this application will emphasize, namely, rheumatic autoimmune disease, vision research, cancer, diabetes and practice-based research using consortia of care providers. This emphasis is strategic in that these disease processes are over-represented among American Indians, who represent more than 15 percent of the population in Oklahoma.

Funding Opportunity Announcement (FOA)
HHS-2010-ACF-OFA-TH-0134 - UNFUNDED

- Title: “Cherokee Home Visits”
- Lead Agency: Cherokee Nation
- Collaborators: Paul M. Darden, M.D., OU Health Science Center
- Description: Although Cherokee Nation has some experience providing home visits, services are not specifically targeted at high-risk communities based on the diverse needs of families and children at risk, or delivered in a comprehensive way across health and human service systems. No current services begin before birth, and none extend as part of a system of support until kindergarten entry. We will use focus groups of parents and key informant interviews of key stakeholders to test the validity hypotheses about need for and implementation of an expanded home visitation program.

Funding Opportunity Announcement
HRSA-10-231 - UNFUNDED

- Title: “Primary Care Research in General Pediatrics”
- PI: Paul M. Darden, M.D.
- Description: The Section of General and Community Pediatrics, University of Oklahoma Health Sciences Center, proposes to substantially expand as an Academic Administrative Unit in order to improve its research and educational activities with the goal of reducing health disparities among the children of Oklahoma. The purpose of the proposal is to develop a Practice-based Research Network to conduct in the area of health disparities and access to care for children. It will create a curriculum and rotation for trainees, residents and medical
students, allowing the opportunity to work in areas of high disparity, such as the American Indian and Hispanic communities. During these rotations, trainees will be required to develop research projects or quality interventions designed to reduce health care disparities and improve health literacy.

**Funding Opportunity Announcement - HHS-2010-CMS-CHIPRA-0002 - UNFUNDED**

- **Title:** “Children’s Health Insurance Program Reauthorization Act Quality Demonstration Grant Program”
- **Lead Agency:** Oklahoma Health Care Authority
- **Collaborators:** Paul M. Darden, PI for Objective A
- **Description:** The goal of this funding opportunity was to establish and evaluate a national quality system for children’s health care, which encompasses care provided through the Medicaid program and the Children’s Health Insurance Program. The goal of the funding opportunity is to establish and evaluate a national quality system for children’s health care. In an attempt to meet this goal, a number of specific demonstration grant projects were prescribed within the CHIPRA statute, including: A) experiment with, and evaluate the use of new measures for quality of Medicaid/CHIP children’s health care; B) Promote the use of health information technology for the delivery of care for children covered by Medicaid/CHIP; C) Evaluate provider-based models that improve the delivery of Medicaid/CHIP children’s health care services; or D) Demonstrate the impact of the model electronic health record format for children (developed and disseminated under section 401(f)) on improving pediatric health, and pediatric health care quality as well as reducing health care costs.

**Funding Opportunity Announcement RFA-IP-10-002- UNFUNDED**

- **Title:** “Cherokee Adolescent Immunization”
- **PI:** Paul M. Darden
- **Collaborators:** Cherokee Nation
- **Description:** The target population for this project includes all Native Americans (122,000 population) residing in the 7,000-square-mile, 14-county Cherokee Nation Tribal Jurisdictional Service Area in eastern Oklahoma. American Indians have multiple risk factors for vaccine-preventable diseases and for low immunization rates. American Indian children tend to be poorer, in larger families, live in rural communities, suffer from more chronic diseases and their parents tend to have less education than the general population of children. Perhaps as a result of these risk factors, American Indian children tend to have lower immunization rates and suffer disproportionately from vaccine-preventable diseases. Our research objective is to develop and implement a multicomponent intervention to improve vaccination coverage levels among adolescents of the Cherokee Nation who are at increased risk for vaccine-preventable diseases.
Funding Opportunity Announcement
HHS-2010-IHS-INMED-0001 - UNFUNDED
• Title: “Oklahoma Indians Into Medicine”
  • PI: M. Dewayne Andrews, M.D., executive dean
  • Collaborators: Paul M. Darden, M.D., director of medical education component
  • Description: This Indians into Medicine application will focus on the College of Medicine at the OU Health Sciences Center in Oklahoma City to increase the number of American Indian physicians by encouraging Oklahoma’s American Indian students to enter the health fields. It should also be noted that other health professional schools at the Health Sciences Center campus in Oklahoma City and the OU College of Medicine in Tulsa, Oklahoma will also receive services provided by the INMED grant in the form of more recruitment, retention and graduation of American Indian students. In essence, both campuses allow for coverage of the entire state of Oklahoma for recruitment of American Indians into its health professional programs.

Investigator-Initiated Research – Research Scholars Program
The Research Scholars Program is a new program effective July 1, 2010, which gives faculty and staff the opportunity to receive one-half day per week of protected release time in order to complete a scholarly project, which must be approved after submission of a research proposal. Since the initiation of the program, four faculty and one staff member have been admitted and have research projects underway.

“Oklahoma AAP Needs Assessment Survey of Pediatric Providers of Overweight and Obesity”
  • Scholar: Jessica Brown, D.O.
  • Description: The Oklahoma Chapter of the American Academy of Pediatrics will survey providers to determine how they evaluate and treat overweight and obesity, and to identify barriers to treatment and needs of pediatric providers. The results of the study will assist the OKAAP in creating an online toolkit and make resources and educational materials available to Oklahoma pediatric providers.
  • Status: Institutional Review Board-approved, survey in progress.

“Medical Home for Children with Developmental Disability in Resident Continuity”
  • Scholar: Jana Butcher, ARNP
  • Description: The AAP recommends Medical Home for children with special health care needs. MH studies have not examined children with developmental disabilities. This study examined whether enhancements to MH attributes in a pediatric primary care residency clinic would impact health care use, quality of life and satisfaction with MH attributes among low income families with a DD child.
  • Status: Completed, abstract submitted to Southern Regional Meeting and accepted, and submitted to Pediatric Academic Societies Meeting.

“Attitudes and Perspectives of Healthcare Providers and Learners toward Co-Sleeping and Bed-Sharing”
  • Scholar: Veena Khanna, M.D.
• Description: There has been extensive literature regarding co-sleeping beliefs and trends in patients, their families and factors that influence families in their decisions regarding sleep choices. The purpose of this project is to perform a survey of health care providers and learners to determine their beliefs and attitudes about co-sleeping and bed-sharing. This will be accomplished through a 48-item modified survey administered online in response to an emailed request.

• Status: Protocol in development.

“Prevalence of Childhood Overweight and Obesity in Foster Care”

• Scholar: Deborah Shropshire, M.D.

• Description: The goal of this study is to determine the prevalence rates of overweight and obesity of children entering foster care who are receiving a health screen at the Pauline Mayer shelter clinic. The hypothesis is that prevalence rates of overweight and obesity in this population will be higher than national and state estimates. The purpose of the study is to provide a baseline of measured prevalence rates for childhood overweight and obesity in children entering foster care and to utilize that baseline to inform policy and guide intervention initiatives.

• Status: IRB approved, in progress.

Other Investigator-Initiated Research

“The Measurement of Continuity in Pediatric Continuity Clinics”

• PI: Paul M. Darden, M.D.

• Description: We proposed to survey continuity clinics in Accreditation Council for Graduate Medical Education approved pediatric residencies to find out how they measure continuity for their pediatric residents. Continuity of care is associated with increased quality of care, including increased patient and physician satisfaction, decreased emergency department visits and hospitalizations. There are at least 12 separate measures of continuity in the medical literature. A continuity experience for pediatric residents has been mandated by the Pediatric Residency Review Committee since 1980. Currently the RRC has a requirement for the number of weeks in continuity clinic (36), the number of patients seen per week per level of training and structural requirements concerning clinic operation. The RRC does not require or suggest a particular measure of continuity. If continuity of care is important for patient care and for education then it should be important enough to measure and to monitor.

• Status: Survey completed and abstract submitted to Pediatric Academic Society.

“Headache Prevalence and Characteristics in Oklahoma Children”

• PI: Paul M. Darden, M.D.

• Description: The prevalence and background of childhood headaches in Oklahoma is poorly described. Recent studies indicate that chronic
daily headaches are common in children and adolescents who seek medical help from specialists or neurologists. By examining the factors surrounding headaches in adolescents and children, we may be able to determine treatment targets to help prevent chronic headaches from persisting into adult life. This initial study is intended to explore the prevalence and symptoms of childhood headaches in our area, to provide the framework for future studies as well as a starting point for a practice-based pediatric research network.

- Status: Protocol in development.

“Reliability of the Postpartum Depression Screening Scale with Mothers of Infants in the Neonatal Intensive Care Unit”
- PI: Stephen R. Gillaspy, Ph.D.
- Status: IRB pending

“Spanish Video in Anesthesia as an Uncertainty and Anxiety Reducer Tool in Spanish Speaking Parents”
- PI: Department of Anesthesia
- Co-Investigator: Stephen R. Gillaspy, Ph.D.
- Status: Active data collection

Graduate Student Research Projects
“Parent Report of Psychosocial Adjustment of Children with Disorders of Sex Development” – Student Project
- Graduate student research: David Fedele and Stephanie Hullmann, doctoral students in the Clinical Psychology Program at Oklahoma State University
- Co-Investigator: Stephen R. Gillaspy, Ph.D.
- Status: IRB pending

“Psychological Comorbidity Among Children Diagnosed with a Juvenile Rheumatic Disease and their Parents” – Student Project
- Dissertation Project for Jamie Ryan, Rachelle Ramsey and Meggie Bonner, doctoral students in the Clinical Psychology Program at Oklahoma State University
- Co-Investigator: Stephen R. Gillaspy, Ph.D.
- Status: Active data collection

“Physiological Adjustment to Parents of Children with an Illness”
- Dissertation project for David Fedele and Stephanie Hullmann, doctoral students in the Clinical Psychology Program at Oklahoma State University
- Co-Investigator: Stephen R. Gillaspy, Ph.D.

- Status: Active data collection

Research Strategic Plan – SWOT Analysis
SWOT Analysis is a strategic planning method used to evaluate the strengths, weaknesses, opportunities, and threats. Using SWOT, a research strategic plan has been composed for the section, encompassing short-term, mid-term and long-term goals and objectives as listed below.

Short-term goals include: 1) Hire analyst and research coordinator; 2) Hire a Ph.D. with a social science background who can be a section wide resource and also will build an independent research program; 3) Start a general academic generalist training program; 4) Practice-based research network: get additional community pediatricians to sign up. In 2010, we achieved Goals 1, 3 and 4. We intend to pursue Goal 2 and continue to seek new members for the
PBRN (Goal 4) in the next year.

Mid-term goals include: 1) Hire research-trained faculty; 2) Hire a mid-level academic general pediatric researcher; 3) Recruit scholars for the training program; 4) Apply for training program funding support; 5) Practice-based research network: collect data and publish at least one paper, and obtain funded grant and more publications; and 6) Hire a practice enhancement associate. In 2010, we worked toward Goals 3, 4 and 5 (an abstract was presented at Research Day), and achieved Goal 6. We will continue to pursue Goals 1-5 in 2011.

The long-term goal is to build a laboratory for General Pediatric Research and to develop our own research-trained faculty from the academic generalist fellowship program.

**PUBLICATIONS AND PRESENTATIONS**

**Publications 2010**


8. Gustafson KK, Martines J, Darden PM, Battaglia R, Roberts JR, White SD. Improving RSV Prophylaxis Utilizing the Chronic Care Model. Submitted


Book Chapters 2010


Abstracts Accepted for Presentation (for 2011)
Southern Regional Meeting
1. Medical Home for Children with Developmental Disability in a Resident Continuity Clinic. Authors: Jana Butcher, MS, ARNP; Rob Wild; Stephen R. Gillaspy, Ph.D.; Mark Wolraich, M.D.; Vonda Martin; Tara Ford; Lou Ludwig, M.D.

2. Provider Recommendation of HPV Vaccine: How much difference does it make nationally and in Oklahoma? (platform presentation). Authors: Monique M. Naifeh, M.D.; Siew Ching Ang, Ph.D.; Paul M. Darden, M.D.

3. Obesity prevalence in low-income, preschool children in Oklahoma (platform presentation). Authors: Ashley Weedn, M.D.; Siew Ching Ang, Ph.D.; Paul M. Darden, M.D.

4. Parenting Characteristics of Parents of Obese and Non-obese Children. Authors: Stephen R. Gillaspy, Ph.D.; David A. Fedele, MS; Theodore Wagener, Ph.D.; Cam L Weaver, MS; Elise M. Dunkle; Larry Mullins, Ph.D.; Casey Mullins Ph.D..

Pediatric Academic Society, Submitted
1. Is Continuity Measured in Continuity Clinic? A Study from the APA Continuity SIG and CORNET. Authors: Paul M Darden, M.D.; Kathy J Kyler, MS; Niramol Dhepyasuwan, MS; John M Olsson, M.D.; Janet R. Serwint, M.D.

2. Role of Doctors’ Recommendations in Adolescent Vaccine Rates. Authors: Paul Dasari, M.D.; Siew Ching Ang, Ph.D.; Monique M Naifeh, M.D.; Paul M. Darden, M.D.

3. Obesity prevalence in low-income, preschool children in Oklahoma. Authors: Ashley Weedn, M.D.; Siew Ching Ang, Ph.D.; Paul M. Darden, M.D.

4. Improving the Delivery of HPV Vaccine Nationally and in Oklahoma. Authors: Monique M. Naifeh, M.D.; Siew Ching Ang, Ph.D.; Paul M. Darden, M.D.

5. Medical Home for Children with a Developmental Disability in a Resident Continuity Clinic. Authors: Jana Butcher, MS, ARNP; Rob Wild; Stephen R. Gillaspy, Ph.D.; Mark Wolraich, M.D.; Vonda Martin; Tara Ford; Lou Ludwig, M.D.

6. Parenting Characteristics of Parents of Obese
and Non-obese Children. Authors: **Stephen R. Gillaspy, Ph.D.**, David A. Fedele, MS; Theodore Wagener, Ph.D.; Cam L Weaver, MS; Elise M. Dunkle; Larry Mullins, Ph.D.; **Casey N. Hester, M.D.**

National Conference in Pediatric Psychology, Submitted


**Presented Abstracts**


GENERAL AND COMMUNITY PEDIATRICS


Invited Presentations

Paul M. Darden, M.D:


Improving the Provision of Preventive Care for Oklahoma Children (with Laura McGuinn). Pediatric
Grand Rounds, Department of Pediatrics, Oklahoma University Health Sciences Center, Oklahoma City, OK, January 21, 2010.

Chair (with Iris Borowsky, M.D., Ph.D.), APA Special Interest Group Fellowship Training. Pediatric Academic Societies Meeting. Vancouver, Canada, May 2010.


Stephen R. Gillaspy, Ph.D.: Postpartum Mood and Anxiety in Mothers of NICU Infants Changing Seasons in Neonatology: The 14th Annual Conference for Physicians, Nurses, Respiratory Therapists and Others Involved in Neonatal Care. October 2010

Behavioral Health Issues and Pediatric Hospitalizations Child Life Program December 8th 2010

Postpartum Mood and Anxiety in Mothers of NICU Infants Baptist Hospital NICU December 9th, 2010

Development and Initiating Routine Postpartum Screening in the NICU Governor’s Transformation Advisory Board 2010

Casey N. Hester, M.D.: Media and Medicine for the New Millennium. Workshop Facilitators: Casey Hester M.D.; Deborah Shropshire M.D.; Ashley Yates M.D. PL-2; Jay Malone M.D. PL-1; and Teresa Green. Accepted for Southern Regional Meeting, 2011.

Magazine Interviews - Stephen R. Gillaspy:

1. OU Medical Center Brag Book magazine article, Issue 1, Summer/Fall 2010, “Changing Perceptions.”

2. OU Medical Center Focus magazine article, January 2011, “Transforming Care For Postpartum Depression.”
Radio Interviews - Stephen R. Gillaspy:

2011 Academic Pediatric Association/AHRQ Young Investigator Award Program
Ashley Weedn submitted a proposal, “Prevalence of Childhood Obesity in Low-income Preschool Children in Oklahoma: Identifying Trends and Disparities,” which was selected to compete in the second round of the 2011 Academic Pediatric Association/AHRQ Young Investigator Award Program.

GRANTS, CONTRACTS AND COLLaborATIONS

Grants:
A list of grants applications can be seen in Section 7, Research Activities.

Awards:
AHRQ PBRN Travel Award
This award to support attendance at the PBRN annual meeting was granted to the PBRN coordinator.

Academic Pediatric Association/AHRQ Young Investigator Award Program
Dr. Weedn submitted a proposal in November 2010 which was selected to compete in the second round of the 2011.

Contracts:
Pauline E. Mayer Shelter (Department of Human Services Contract - $33,600 per year). This contract provides for medical services and consultation. The faculty in General Pediatrics agree to twice-weekly site visits for diagnosis, examination, medical screening and referral of shelter patients. The contract also requires 24/7 medical consultations to shelter patients.

Oklahoma Department of Human Services (Contract - $81,250 per year). Deborah Shropshire, M.D. and Stephen Gillaspy, Ph.D.. This contract provides pediatric consultation services to the Oklahoma Department of Human Services Child Welfare staff for a minimum of 60 hours a month for assisting in planning and development of a comprehensive health care system to include prevention, diagnostic, and referral and treatment services for children in the child welfare system. The contract also provides for pediatric psychological services to OKDHS child welfare staff and for assisting in the planning and development of a comprehensive behavioral health care system for children in the OKDHS child welfare system.

Perinatal Mood and Anxiety Screening for Mothers of Neonatal Intensive Care Unit Infants at OU Medical Center, Transformation Grant, Oklahoma Department of Mental Health and Substance Abuse Services (Contract - $111,200 per year). Dr. Gillaspy oversees the initiative to develop and implement a routine screening, assessment and referral system. Dr. Hobson is exclusively committed to this project.
## Comparison of Section Activities, 2009-2010

<table>
<thead>
<tr>
<th>Item Description</th>
<th>2009 Data</th>
<th>2010 Data</th>
<th>Percentage Change</th>
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<td>Total extramural funding</td>
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<td>Inpatient psychology cases</td>
<td>200</td>
<td>260</td>
<td>30%</td>
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</table>
GENETICS

FACULTY

1JOHN J. MULVIHILL, M.D.,
Children’s Medical Research
Institute Kimberly V. Talley Chair
in Genetics
2SHIBO LI, M.D., Professor
J. RODMAN SEELEY, M.D.,
Ph.D., Clinical Professor

1SUSAN E. PALMER, M.D.,
Ph.D., Associate Professor
DHARAMBIR K.
SANGHERA, Ph.D., Associate
Professor

1SUSAN HASSED, MS,
CGC, LGC, Clinical Associate
Professor
KLAAS WIERENGA, M.D.,
Clinical Associate Professor
2JIYUN LEE, Ph.D., Research
Assistant Professor
GENETICS

In August 1998, the university had a part-time, board-certified medical geneticist and a full-time, board-certified pediatric endocrinologist who handled all the dysmorphology, metabolic, endocrine and diabetic problems, almost exclusively in infants, children and teenagers, in the section. The state had no clinically active board-certified genetic counselors, and Fluorescence in situ hybridization chromosome testing required sending the sample to an outside laboratory. Occasional summer medical student projects and pharmaceutical trials comprised the sponsored research activity. After a national search, Dr. John J. Mulvihill accepted the appointment as the Children’s Medical Research Institute/Kimberly V. Talley Chair in Genetics and the director of the OU Health Sciences Center Program in Human Genetics. Thus, on Sept. 1, 1998, the Section of Genetics, Department of Pediatrics was created.

THE GOAL OF THE SECTION OF GENETICS IS:

1. To discover new knowledge about the genetic determinants of disease through laboratory, clinical and interdisciplinary research
2. To educate and mentor students, trainees, other interested health professionals and the public in the science, art, and medical applications of genetics
3. To apply genetics clinically to improve the health of patients, families, communities and the population
4. To offer selected state-of-the-art genetic laboratory services for patients, family members and professional colleagues

As of Oct. 1, 2010, Dr. Mulvihill cut back his time to 60 percent to enjoy parental and grandparental tasks. His largest job is to recruit a medical geneticist to become the section head and to recruit the junior investigators for the Children’s Hospital Foundation Program in Genetics. We enjoyed visits in 2010 from four potential leaders from NIH, Baylor and Vanderbilt, in addition to the nine from prior years, without gaining a commitment. Others are on tap for 2011. The daily business of the section is proceeding smoothly and in this 13th year, the Section of Genetics continues to move forward on many fronts. Our

Photo by TaylorMade Photography

SECTION PROFILE

Number of Faculty - 11
Number of Fellows - 2
1. Clinical: 0
2. Research: 2
Number of Students
8 genetic counseling students;
2 student/GRAs from the
College of Public Health;
3 summer students
Number of Non-Faculty
Clinical Personnel - 5
Number of Non-Faculty
Research Personnel - 4
Number of Non-Faculty
Laboratory Personnel - 15
Number of Administrative/
Support Personnel - 3
Annual Total Grant Support - $3,574,640
Annual Total Industry
Contracts (Direct) - $0
Number of Peer-Review
Publications - 25
Patient Encounters
1. Outpatient Visits - 1,775
2. Inpatient Visits (all consultations) - 224

1JAE LINDSAY CHALONER, MS, CGC, LGC, Clinical Assistant Professor
2Certified by the American Board of Medical Genetics or the American Board of Genetic Counseling
3Certified by the National Certification Agency as a Clinical Laboratory Specialist, Cytogenetics
ANDREA WIERENGA, Ph.D., Clinical Assistant Professor
H. GENE HALLFORD, MA, ABD, Clinical Instructor
faculty and staff have worked together to continue the programs previously initiated and to increase our productivity in the areas of clinical service, research and education. In addition, our faculty remained active at the national and international level and continued to raise awareness of Oklahoma as a contributing voice in human and medical genetics. In 2010, the section has 15 grants and contracts with a value of $3,574,640, published 25 peer-reviewed papers, presented 16 abstracts at national meetings, submitted nine applications for research projects, has 38 IRB studies and six GCRC protocols, and saw 1,775 outpatient visits and 224 inpatient consultations, processed 1,679 routine cytogenetic samples, 896 samples for FISH analysis, 933 DNA samples (fragile X, cystic fibrosis, array, CGH), and 311 samples for sequencing assays.

**GENETICS**

Dr. Mulvihill also is chief of the section of genetics, professor of pediatrics, and adjunct professor of pathology and of biostatistics and epidemiology. Dr. Li is also the director of the genetics laboratory. Dr. Andrea Wierenga is director of biochemical genetics laboratory.
CLINICAL AND SERVICE ACTIVITIES

Clinical Activities

Specialty Clinic
The patient-care services provided by this section are unique. The providers (four physicians, one physician assistant, four genetic counselors, one metabolic nurse and one dietitian) are responsible for providing in-patient and out-patient consultations for challenging genetic and metabolic cases. 58 percent of practice patients are covered under the state’s managed Medicaid contract, and 42 percent are commercially insured. In our genetics outpatient clinic, we see both new and return patients each week. Every new patient is seen by both a clinical geneticist or physician’s assistant and a genetic counselor. For all patients, the genetic counselor obtains the health, developmental and family history. The geneticist or physician’s assistant then conducts a physical examination and decides what further testing and referrals are appropriate, and both discuss the recommendations with the family. A new physician assistant is assuming greater responsibility. When a diagnosis is made, the team meets with the family to discuss the diagnosis and what the implications are for the patient and their family members. Most patients (about 80 percent) are pediatric; the remaining adults have a personal or family history of cancer, a neurological condition such as Huntington disease or neurofibromatosis, or other adult-onset disorders. Breast-cancer patients also are seen in clinic at the OU Breast Institute.

Multi-disciplinary Clinics
The Section of Genetics provides genetic counseling services for families as part of the multidisciplinary medical team in the Hemophilia Clinic, the Muscular Dystrophy Association Muscular Dystrophy Clinic and the Cleft Palate Clinic.

Newborn Screening and the Metabolic Service
As part of the state’s newborn screening program, a long-term follow-up coordinator and a metabolic dietitian travel monthly to Tulsa to meet the children and their families who have been identified via

STAFF

Physician Associate
Ashley Taylor, MHS, PA-C

Genetic Counselors
1Julie Beasley, MS, CGC, LGC
1Marsha Pratt, MS, CGC, LGC

Newborn Screening
Ashley Ethtridge, MS, RD/LD, Metabolic Dietitian
Mary Monks, RN, Metabolic Long-Term Follow-Up Coordinator

Research
Simone Smith, BS, Research Project Coordinator
Heather Rabalais, MA, Research Assistant
Shona Whitehead, BA, Sponsored Program Coordinator
Jane Pace, Research Assistant II

Genetics Laboratory
2Sheeja Aravindan, MS, MPhil, CLSpCG, Research Assistant III
Young Mi Kim, Ph.D., Research Associate
2Xianglan Lu, Ph.D., CLSpCG, Research Associate
1Weihong Xu, MS, Research Associate
Yuling Gu, Research Assistant I

1Certified by the American Board of Medical Genetics or the American Board of Genetic Counseling
2Certified by the National Certification Agency as a Clinical Laboratory Specialist, Cytogenetics
newborn screening. The Tulsa Metabolic Clinic visits are in collaboration with Dr. James Coldwell and Crystal Bunney. The roles of the long-term follow-up coordinator and dietitian are to monitor and track all children with phenylketonuria, galactosemia and medium chain acyl CoA dehydrogenase deficiency who have been identified by the Oklahoma State Department of Health.

Once a week in Oklahoma City, a certified genetic counselor sees patients who have been identified by newborn screening to possibly have cystic fibrosis or hemoglobinopathy regarding test results, treatment options and reproductive recurrence risks.

**Genetics Laboratory**
The Genetics Laboratory is a full-service cytogenetics and molecular cytogenetics clinical laboratory, as well as a research laboratory. We also are actively involved in the teaching of graduate students, residents and fellows. The laboratory director, Dr. Shibo Li, is board-certified in clinical cytogenetics and clinical molecular genetics. The assistant laboratory director, Jiyun Lee, holds her doctorate, is board-certified in clinical and molecular cytogenetics and has 11 years of experience in the field of genetics. There are five technologists and support staff as well as nine visiting research fellows or associate research scholars. The Genetics Laboratory provided 3,819 diagnostic studies and more than 500 research cases this year in the areas of oncology, birth defects and other projects. The research projects of our laboratory are supported by several grants, with objectives being the investigation of various cytogenetic and molecular cytogenetic aspects of solid tumors and the development of computer-aided chromosome imaging for cancer diagnosis. Chromosomal microarray testing, underway for three years, far surpasses the abilities of routine chromosome analysis methods in detecting micro-deletions and duplications. We provide sequencing services to aid in the clinical diagnosis of Neurofibromatosis Type 1; we are one of two labs in the United States that perform sequencing for NF1. We now have 35 sequencing studies to our test menu. We are a reference laboratory for the Norman Regional Health System and Diagnostic Laboratories of Oklahoma. The laboratory is Clinical Laboratory Improvement Amendments and College of American Pathologists and Clinical Laboratory Improvement Amendments and College of American Pathologists certified and also is a reference laboratory for two national cancer therapy groups.

**Biochemical Genetics Laboratory**
The OU Biochemical Genetics Laboratory was founded this year with the recruitment of Andrea Wierenga, who has met requirements to sit for the next examination of the American Board of Medical Genetics, with a graduate degree in nutrition and postdoctoral fellowship training at the University of Miami. In laboratory space loaned by Pediatric Nephrology, she and her staff, Jane Pace, (a very experienced analytic chemistry technologist) and Kevin Winters, set up amino acid chromatography and mass spectrometry for clinical and research purposes. An early test case verified the merit in the laboratory. An infant born in a corner of the state on Tuesday was discovered on Thursday to have failed the test for Phenylketonuria, and traveled four hours Friday morning to have temporary therapy started.
and blood drawn for definitive diagnosis. By established routine, the sample was overnighted to Houston, tested on Monday and reported on Tuesday, to have classic PKU, which, if the infant had regular formula, would cause irreversible mental retardation. As part of scrupulous validation, a leftover part of the sample was tested by our new laboratory in Oklahoma City, and the correct diagnosis was known later the same Friday, a significant improvement in speed and care.

SERVICE ACTIVITIES

Heartland Genetics and Newborn Screening Collaborative
The Heartland Collaborative is a network of genetics and newborn screening providers, advocates and other stakeholders from Arkansas, Iowa, Kansas, Missouri, Nebraska, North Dakota, Oklahoma and South Dakota. The Heartland Collaborative works to improve expanded newborn screening; professional and public genetics literacy; equitable access to genetics evaluation, counseling and testing services; and cooperation between neighboring states within the region. It facilitates and promotes collaboration, assessment, planning, program development and evaluation, education, research, and public policy activities related to these issues. The Heartland Collaborative is focused on insuring the best possible outcome for individuals with heritable disorders and optimizing the health of the population throughout the life cycle by improving understanding and awareness of genetics, expanding access to health care, and translating new findings to improve the quality of care within an eight-region state.

The Heartland Collaborative membership assembles once per year for a two-day conference to address key issues or topics. The 2010 annual meeting was held Sept. 22 to 24 in Des Moines, Iowa. The next annual meeting will be held August 2011 in Bismarck, N.D. Dr. Klaas Wierenga assumed administration head of the project in October 2010.

The Oklahoma Genetics Advisory Council
OGAC’s objective is to anticipate and meet the ever-rising expectations in genetics as applied to medicine and public health, as well as to

Genetic Epidemiology Laboratory
Latonya Been, laboratory technician
Lyda Ortega-Jimenez, research technician

Administrative
Matthew Grim, business manager
Janice Lawrence, senior administrative assistant
Danielle Otis, administrative coordinator

Fellows/ Scholars
Hui Pang, postdoctoral fellow
Xianfu Wang, postdoctoral fellow
Xiaoxia Hu, associate research scholar
Rui Zhang, associate research scholar
Guannan Niu, associate research scholar
Batao Shen, associate research scholar
Jinglan Jin, associate research scholar
Fangchao Gong, associate research scholar
Huimin Tian, associate research scholar
Fangchao Gong, associate research scholar
Youling Gu, associate research scholar
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accommodate new genetics programs at medical centers. The OGAC members, appointed by the state commissioner of health, are stakeholders in various facets of genetics services, education and research. Six section members contribute to the work of OGAC.

Peer Reviews

Dr. Mulvihill is on the OU Speakers Bureau roster and presents genetics topics to community groups, genealogic societies, etc. several times a year. He served as a reviewer for multiple journals, including the American Journal of Medical Genetics, Annals of Internal Medicine, Clinical Genetics, Mutation Research and Genetics in Medicine.

TRAINING

Medical Students

Lecturer (Dr. John Mulvihill, with small group supervision by eight section members):
- Med School Year 1 Neurofibromatosis (three hours)
- Med School Year 4 Electives, listed below

Director (Dr. John Mulvihill):
- Med School Year 4 PEDI 9010 Clinical Research
- Med School Year 4 PEDI 9632 Pediatric Clinical Genetics Elective Course
- M.D./Ph.D. Program PEDI 9011 Longitudinal Clinical Clerkship for M.D./Ph.D. Students
- CTS Summer Program PEDI 9980 Principles and Practice of Clinical and Translational Research

Graduate Students

The Master of Science in Genetic Counseling involves close collaboration with other departments in the College of Medicine, the College of Public Health and the Oklahoma Medical Research Foundation. The overall objective of the program is to educate master’s candidates to provide genetic counseling to patients and families with known or suspected genetic conditions and to perform basic and clinical research or both in all areas of genetics. Taken on a full-time basis, course work requires 21 months of study. The total time for classroom courses and practicums is 48 semester hours. Didactic course work encompasses medical genetics, psychosocial theory, counseling techniques, applied clinical and molecular genetics, and cytogenetics. A major element of the educational programs are clinical practica to provide the students with supervised actual experience in clinical genetics, prenatal diagnosis counseling, cancer genetics counseling, clinical metabolic genetics and laboratory techniques in cytogenetics, molecular genetics and newborn screening. In addition to the classroom and practical experience, each student is required to conduct original research. The result of this research will be a paper that would be appropriate for submitting to a peer-reviewed journal. Students must also pass both written and oral comprehensive examinations. Since its beginning in 2003, 18 graduates have completed the masters program with four of those graduates joining the clinical staff at the OU Health Sciences Center. Our program voluntarily withdrew accreditation for one year and is awaiting re-approval for a new class. Section members also contribute to Mid-America Genetic Education Consortium, an innovative Master of Science program in genetic counseling as a consortium with
universities of the adjacent states of Arkansas, Kansas and Nebraska. The program, which had its first two graduates in 2008, is unique in offering all courses over the Internet, except the locally provided clinical practica.

**Genetics and Pediatrics Residency Programs**

The overall goal of the genetics program is to provide residents with a broad exposure to all aspects of medical genetics and to prepare them to become outstanding medical geneticists with skills in the Accreditation Council for Graduate Medical Education core competencies. They receive instruction in the scientific principles of genetics for evidence-based practice, for public screening programs and for understanding of laboratory evaluations and research. At completion, trainees are prepared to pursue lifelong learning and a career in academics and/or research if desired.

The OU Medical Genetics Residency Program was launched by Susan Palmer, M.D., Ph.D., and continued by John J. Mulvihill, M.D., former director of American Board of Medical Genetics or Accreditation Council for Graduate Medical Education-certified clinical genetics training programs at the National Institutes of Health (22 clinical and/or laboratory fellows) and the University of Pittsburgh (18 clinical and/or laboratory fellows). Successfully, the Genetics Residency Program was reviewed with a site visit by the ACGME in September 2009. The program planned to accept a resident for July 2010 but for personal reasons, she withdrew. Dr. Wierenga became Program Director in July 2010.

In addition to the Genetics Residency Program, pediatric residents and medical students have taken advantage of the opportunity to participate in the clinical rotation, a number of residents participate one day a week for a month, the Genetics Laboratory hosts pathology residents and there have been lectures to residents in other departments. Pediatric clerks often pick genetics to sample an outpatient subspecialty for a few days.

**Fellows**

Molecular diagnostic pathology fellows (M.D. track) spend eight weeks training in Medical Genetics Clinics at OU Medical Center. During their rotation in Medical Genetics, the fellows work with human geneticists, genetic counselors and others providing genetic services. They participate in the examination, diagnosis and counseling of adult and pediatric patients in a variety of outpatient clinics and inpatient consults.

Molecular pathology fellows (Ph.D. track) occasionally observe the examination, diagnosis and counseling of adult and pediatric patients in the Specialty Clinic in order to gain a better understanding of clinic procedures.

**Summer Gene Teams**

The 2010 Gene Team comprised three students: James Furr, MS 1/2, OU College of Medicine, Kevin Winters, MS 1 OU College of Medicine, and Brady Selig Jr./Sr. at Oklahoma State University. Each of these students presented an article during Journal Club and participated in section research activities. The first two were summer scholars in the Clinical
and Translational Sciences Program. Brady Selig was a part of the Native American Research Center for Health Program.

Clinical and Translational Science Summer Scholar Program
In 2009 and 2010, the third and fourth sets of Clinical and Translational Science Summer Scholars were directed by Dr. Mulvihill and managed by Gene Hallford. The 10 scholars in 2010 were from the College of Medicine. Program highlights included a “mock” NIH study section where student projects were critiqued by experienced OU Health Sciences Center faculty and a final presentation session where summer research projects were presented to a campus-wide audience.

Journal Club and Section Meeting: Thursdays at Noon
The purpose of this meeting is to discuss section business, review interesting teaching cases, and the presentation and discussion of an original data article pertaining to genetics. All section members take turns presenting an article of interest and a discussion follows regarding the validity and clinical applicability of the study.

Clinical Case Conference: Fridays at 3 p.m.
This weekly meeting of clinical staff is designed to examine and review the clinical cases (pre and post management) for patients seen in the Genetics Specialty Clinic, in addition to the current status of any inpatient consultations.

Meetings and Presentations Beyond Campus by Dr. Mulvihill
Jan. 28 to 29, 2010
Childhood Cancer Survivor Study, San Diego, Calif.

March 3 to 5, 2010
Radiation Effects Research Foundation Science Council Meeting, Hiroshima, Japan

March 24 to 28, 2010
American College of Medical Genetics Annual Meeting, Albuquerque, N.M.

April 12, 2010
Trip to Dick Conner Correctional Facility for Period Pain Research Study, Hominy, Okla.

April 25 to 27, 2010
Human Teratogens Postgraduate Course, Boston, Mass.

May 20, 2010
Oklahoma Genetics Advisory Council Meeting, Tulsa, Okla.

June 11 to 12, 2010
11th International Conference on Long-Term Complications of Treatment of Children and Adolescents for Cancer, Williamsburg, Va.

June 12, 2010
Alpha-1 Association 19th Annual National Educational Conference, Orlando, Fla.

July 1, 2010
Genetics for the Child Neurologist Program Meeting, Washington D.C.

July 24 to 25, 2010
American College of Medical Genetics Board Meeting, Bethesda, Md.
contracts and industry agreements/research

Vanderbilt University
Dr. Mulvihill serves as a consultant for the National Cancer Institute-funded project titled “Genetic Consequences of Cancer Treatment.” He assists in providing expert advice and collaboration with regards to specific areas covered by the project. Dr. Mulvihill is an expert in cancer genetics and provides guidance and evaluations regarding the genetic consequences of treatments for childhood cancer.

Oklahoma State Health Department
Dr. Susan Palmer is PI of an OSDH contract for professional medical services. The project titled, “Dietary Management Services and Phenylketonuria Metabolic Program,” is a long term follow-up program which provides dietary counseling, administers a PKU formula program and conducts education activities for providers and their families.

Brocher Foundation
As member of the Ethics Committee of the International Human Genome Organisation, Dr. Mulvihill was invited to a three-and-a-half day meeting at the Brocher Foundation chateau on the shore of Lake Geneva, Switzerland, to draft a white paper on delivering the promise of total genomic sequencing of individuals for the benefit of the person and society.

industry contracts
The Section of Genetics does not currently hold any industry contracts.
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GRANTS AND FUNDED COLLABORATIVE EFFORTS

ACTIVE, section member as PI or subcontract PI

Dharambir K. Sanghera, directs a well-funded and productive Molecular Genetic Epidemiology Research Laboratory with collaborators in the Punjab state of India, where a peculiar type of diabetes mellitus Type 2 occurs in young adults who are lean, have a largely vegetarian diet and have Sikh background with some inbreeding. Using advanced clinical and molecular genetic methods, she identifies and characterizes genes that are associated with an increased risk and then seeks them in other populations in the United States.

Indo-U.S. Collaboration in Genomic Studies on Diabetes
DHHS/NIH/Fogarty International Center 7K01TW006087
2/1/2007-8/31/2011 (no-cost extension)
$278,758

On arrival in February 2007, Dr. Dharambir Sanghera transferred a Fogarty International Center grant to the OU Health Sciences Center for collaborative research between Indonesia and the United States for genomic studies of diabetes. PI: D.K. Sanghera

Heartland Genetics and Newborn Screening Collaborative
DHHS Health Resources and Services Administration
6U22MC003962-01-00
6/1/2004-5/31/2012
$6,013,345 total

Dr. Wierenga, Dr. Mulvihill and Ms. Whitehead, with the support of HRSA, continue to work with an eight-state Heartland Regional Collaborative to expand and enhance newborn screening and genetics services.
PI: K. Wierenga

Neurofibromatosis 1 in Old Age: International Interdisciplinary Analyses of the Issues
Department of Defense/U.S. Army
W91ZSQ-5232-N604
3/15/2006-4/14/2011
$761,215 total

Dr. Mulvihill continues his research on neurofibromatosis 1, while working with the Department of Defense studying focus groups in three countries (United States, Canada and Denmark).
PI: J. Mulvihill

Computer-aided Chromosome Imaging Technique for Cancer diagnosis
DHHS/NIH/National Cancer Institute 1R01CA115320 MOU
2007-12
7/14/2006-3/31/2012
$148,186

Dr. Shibo Li received an NIH subcontract through the University of Oklahoma-Norman for the development of a computer-aided chromosome imaging technique for cancer diagnosis. The purpose of this study is to evaluate whether or not a computer-aided detection and diagnosis system can be a useful tool in the clinical environment.
Subcontract PI: S. Li

Native American Research Centers for Health III Administration
DHHS/Indian Health Services
26IHS300014
9/15/05 – 9/14/10
$16,897

Dr. Mulvihill serves as the administrative director of the NARCH III award at the OU Health Sciences Center, working closely with the Chickasaw Nation to implement collaborative research with the Five Tribes of Eastern Oklahoma.
PI: J. Mulvihill
NARCH IV Administration  
DHHS/Indian Health Services  
U26HS300125  
9/15/06-9/14/10, $38,098

Dr. Mulvihill serves as the administrative director of the NARCH IV award at the OU Health Sciences Center, working closely with the Chickasaw Nation to implement collaborative research with the Five Tribes of Eastern Oklahoma.  
PI: J. Mulvihill

Phenylketonuria Dietary Project  
Oklahoma Children’s Health Foundation  
7/1/2005-6/30/2010, $13,047

Dr. Palmer utilizes these funds for the clinical service and educational needs of individuals with phenylketonuria and other inborn errors of metabolism.  
PI: S. Palmer

Dietary Management Services and PKU Metabolic Program  
Oklahoma State Health Department  
7/1/2006-6/30/2011  
$169,120

Dr. Palmer oversees this contract to promote optimal neurological health and reduce developmental disability among individuals with phenylketonuria (PKU) and metabolic conditions through the provision of comprehensive dietary management services and the administration of a PKU medical food program for individuals with PKU. She is assisted by a metabolic dietician, Ashley Ethridge  
PI: S. Palmer

Pediatric Metabolic Genetic Services, Case Management  
Oklahoma State Health Department  
3409007609  
4/01/06-3/30/11, $89,917

Dr. Palmer oversees the metabolic care coordination and support services for children identified with a metabolic disorder through newborn screening. She is assisted by a nurse case manager, Mary Monks  
PI: S. Palmer

Cystic Fibrosis Newborn Screening  
Oklahoma State Health Department  
3409010959  
10/01/08-09/30/11, $25,000

The Section of Genetics provides newborn screening counseling for cystic fibrosis and hemoglobinopathy cases.  
PI: J. Mulvihill

Automated Fluorescence in situ hybridization Imaging and Analysis for Screening Cervical Cancer  
NIH 8/04/2009 – 07/31/2011  
$2,369,521

To establish an image database by collecting pap smear samples, to assist in conduct of a proposed observer performance study and provide input and collaborate with researchers at OU Norman and at the University of Pittsburgh in the development of proposed imaging systems and Computer-aided diagnostic schemes. PI: H. Liu; OU Health Sciences Center Subcontract  
PI: S. Li

Genome-wide Association Scan to Identify Risk Genes for Type 2 Diabetes in Asian Indian Sikhs  
NIH 9/01/2009-8/31/2012,  
$2,161,710

To conduct a GWAS on 1,000 T2D cases and 1,030 controls, and to carry out association analyses to map the locations of T2D susceptibility loci. To perform genotyping of the most promising loci identified by GWAS in a large, independently collected replication cohort of 7,000 Sikhs from the United Kingdom, and to perform association analysis to confirm the significant association in the
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replication cohort. We believe that our study is unique and novel, and promises to yield new information on genetics of diabetes that may be important beyond Indians. PI: D.K. Sanghera

Does PKU Camp Education Improve Plasma Phenylalanine Levels?
DHHS/HRSA
06/01/2010 – 05/31/2011, $45,000
To establish a PKU camp in the Heartland region to provide a quality genetics service for patients with this inheritable inborn error of metabolism. This is a collaboration between OU Children’s Physicians genetics service, the University of Arkansas genetics services and the Cavett Kids Foundation in Oklahoma. PI: Ashley C. Taylor

Neurofibromatosis Clinic Network Children’s Tumor Foundation
12/15/09 – 12/15/2011, $7,500
To provide data entry support for the NFCN database, develop a welcome packet for NF patients, aid the local support group in obtaining speakers and scheduling meetings, coordinate the annual NF Day for the first-year medical students where patients and families visit with small groups of medical students who interview and obtain family health histories, and help new families negotiate the medical center and obtain necessary services. PI: John Mulvihill

Other grant collaborations:

Mentoring Diabetes Research in Oklahoma NIH/National Center for Research Resources
P20RR024215, 10/01/07 – 9/30/10, $1,500,000
Dr. Mulvihill serves as a mentor to a young diabetes researcher in an effort to develop an environment at OU Health Sciences Center, OU-Norman and OU-Tulsa that facilitates and supports diabetes research. This research also aims to improve research and intervention for diabetes in American Indian communities by promoting research partnerships with the tribes of Oklahoma. PI: Ma

Childhood Cancer Survivor Study
NIH/St. Jude Children’s Research Hospital
Subcontract U24-CA55727-14
12/01/05 – 11/30/11, $15,377
To serve on advisory committee and as genetics consultant and investigator in a multicenter project, the Childhood Cancer Survivor Study, of long-term survivors of childhood and adolescent cancer. PI: Robison

PENDING

Therapeutic Targeting of Apoptotic Pathways in Glioblastoma Stem Cells
NIH, $444,000, subcontract from Emory University
PI: Shibo L

Oklahoma Center for Diabetes Translational Research
NIH, PI in Department of Endocrinology
PI: Timothy Lyons

Bright Futures
DHHS/HRSA, $2,648,648, PI in Section of Behavioral and Developmental Pediatrics
PI: Mark Wolraich

Neurofibromatosis Clinic Network Children’s Tumor Foundation NF BioBank Patient Registry Pilot Effort
NFCN Children’s Tumor Foundation, $20,000
PI: John Mulvihill
Genetic Consequences of Therapies for Cancer
National Cancer Institute, $50,000, subcontract with Vanderbilt University
PI: John Mulvihill

Genetics of Non-alcoholic Fatty Liver Disease in Asian Indians
NIH-Fogarty International Center, $189,000
PI: Dharambir Sanghera

Indo-US Training Program in Cardiovascular Genetics and Genomics
NIH-Fogarty International Center, $1,353,329
PI: Dharambir Sanghera

Finding Causal Variants in Type 2 Diabetes Genes
NIH, $2,810,567
PI: Dharambir Sanghera

PUBLICATIONS
Published/accepted articles (2010)


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Been LF, Ralhan S, Wander GS, Mehra NK, Singh JR, Mulvihill JJ, Sanghera DK. Variants in KCNQ1 increase Type 2 diabetes susceptibility in South Asians: A study of 3,310 Asian Indians from India and the US. BMC Medical Genetics, (In press).

Rees SD, Hydrie MZI, Bellary S, O’Hare JP, Kumar S, Sanghera DK, Shera AS, Barnett AH Basit A, Kelly MA. Association of variants within the FTO and MC4R genes with obesity-related traits and Type 2 diabetes in Pakistani populations. Diabetic Medicine, (in press).


Abstracts (2010)


Singhal A, Been LF, Ortega L, Ralhan S, Mehra NK, Singh JR, Sanghera DK (2010). Association of newly identified GWAS-loci with metabolic and lipid-related traits. 35th GREAT Symposium, Oklahoma University Health Sciences Center, Oklahoma City, March 29th-April 1, 2010. (Platform presentation).
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The following abstracts were presented at Pediatrics Research Day (2010):

1. Genetics Laboratory: The Center for Clinical Diagnosis, Education and Research
2. The Oklahoma Clinical and Translational Sciences Institute: Research Navigator Service
3. Cytogenetic Heterogeneity of Human Glioblastoma Stem and Non-stem cells
4. The Role of Complementary and Alternative Medicine in Genetic Counseling
5. An Analysis of Gender Ratios in Families with One or More Individuals Affected by Systemic Lupus Erythematosus
6. Array CGH Analysis Findings in a Patient with Malignant Mesenchymoma of the Liver
7. The Applications and Challenges of the Genetic Testing
8. A Primary Report: To Finding a New Candidate Marker Search from Pooling Neoplastic DNA Based on High Resolution Microarray CGH Analysis
9. Comparing Phenylalanine Hydroxylase (PAH) Genotype and Dietary Phenylalanine Tolerance to Kuvan (BH4) Response in Phenylketonuria
10. Familial Osteopathia Striata with Cranial Sclerosis Due to the Deletion of the WTX Gene
11. Association of Newly Identified Loci with metabolic and Lipid Related Traits
12. Array Comparative Genomic Hybridization (CGH) in Prenatal Diagnosis
13. Copy Number Changes in the Patients with the Philadelphia Chromosome (Ph+) by Using Oligoarray CGH 35
14. Microarray Analysis of Genomic DNA in Hepatocellular Carcinoma
15. High Frequency Genomic Imbalances Detected by Oligoarray CGH in Pediatric Patients: Two Year’s Testing Experience
16. Germ Cell Mutations: Genetic Disease in Offspring of Cancer Survivors in Two Countries
17. The First Case of Parent-to-Child Transmission in Potocki-Lupski syndrome
18. Rapid and Efficient Way to Identify Critical Regions of Genomic Imbalances Associated with Cancers by DNA Pooling Method
COMMITTEES
University/Hospital Committees
Dr. Mulvihill serves on the following committees:
- M.D./Ph.D. Program Advisory Committee
- Clinical Research Center: Investigator, Member of Executive Committee and Advisory Committee
- Oklahoma Center for Neurosciences Advisory Committee
- Member, OU Medical Center Credentials Committee, 2000 - 2010
- Oklahoma Genetics Advisory Committee, Charter Member 2000; Chair, 2003-2006; Chair, Policy Committee 2005 - present

NATIONAL COMMITTEES
Dr. John Mulvihill serves on the following national committees:
2005 - 2008 Elected to Board of Councilors, Environmental Mutagen Society
2005 - Member, Ethics Council of HUGO, The Human Genome Organisation
2006 - Member, Scientific Council, Radiation Effects Research Foundation
2008 - Member, National Council on Radiation Protection and Measurements Scientific Committee on Risks of Ionizing Radiation to the Developing Embryo, Fetus, and Nursing Infant
2009 - Elected to Board of Directors, American College of Medical Genetics

Clinical Societies
American Academy of Pediatrics
American Association for the Advancement of Science
Association of Chinese Geneticists in America
American College of Epidemiology
American College of Medical Genetics
American Medical Association
American Society of Hematology
American Society for Human Genetics
Environmental Mutagen Society
International Genetic Epidemiology Society, Charter Member, First President-Elect 1991-1993; Second President 1994-1995 (Dr. John Mulvihill); ELSI Committee 2009-
International Cytogenetics and Genome Society
Oklahoma County Medical Society
Oklahoma State Medical Association
PEDIATRIC HEMATOLOGY AND ONCOLOGY

FACULTY

WILLIAM H. MEYER, M.D.,
CMRI Ben Johnson Professor
and Section Head

JOAN P. CAIN, M.D.,
Professor

CHARLES L. SEXAUER, M.D.,
Associate Professor

DAVID CRAWFORD, M.D.,
Ph.D., CMRI Tripp Lewallen
Chair Associate Professor
The Section of Pediatric Hematology/Oncology is dedicated to state-of-the-art care of children and adolescents with cancer and blood disorders from Oklahoma and the region. Our multidisciplinary team is committed to a threefold mission:

- To provide comprehensive acute care and long-term followup for patients and their families
- To educate patients, families, health care professionals and the community
- To participate in research that advances our understanding of these diseases and improves patient care

In this academic year, the section continued its efforts to meet this mission in all three arenas of academic responsibility.

**Clinical Care**

The section provides direct patient care and consultation services for our patients and is the only comprehensive, full-service pediatric hematology oncology program in the state of Oklahoma. Most of our patient population resides in the western two-thirds of the state, although we provide statewide comprehensive care for our bleeding and clotting disorders patients, those with sickle cell disease and related hemoglobinopathies, and those requiring bone marrow/stem-cell transplantation. The overall spectrum of tertiary clinical care for our patient population continues to be robust, with busy inpatient and outpatient services and with a sound financial balance sheet. Throughout this year, the section and outpatient care program was recognized by the OU Medicine Excel Program for excellence and has received several outstanding patient satisfaction scores, exceeding the 90th percentile for our peer group of academic institutions. Dr. Cain was among a very small number of OU Physicians recognized for her outstanding patient service with a Golden Pillar Award, given to physicians with patient satisfaction scores in the top 95th percentile.

In 2009, we had more than 20 percent increase in new patients referred with primary malignancies, with 98 new cancer diagnoses.
This unprecedented increase in patient-care load required expansion of our clinical care team. In 2010, the new-patient referrals continued at a similar level, requiring the center to add several additional professional staff to our team, including an additional physician assistant to support both our inpatient and outpatient care, and, in the Jimmy Everest Center, a full-time pharmacist, an additional registered nurse and a clinic coordinator position. Our program also recruited two additional assistant professor-level faculty to our program from top pediatric hematology oncology training programs in the United States. Ashley Baker joined us after completing her training at Texas Children’s Hospital, Baylor College of Medicine, Houston. Chinni Pokala, an OU Health Sciences Center School of Medicine graduate, joined us after completing his training at University of Texas Southwestern School of Medicine in Dallas. A third new faculty member, Osman Khan, was recruited in 2010 and will join our program March 31, 2011, after he completes his training at the Penn State University Hershey School of Medicine program.

Education
The section actively participates in teaching responsibilities for our residents and medical students, and continues to receive very positive evaluations. The inpatient service typically supervises two-to-three pediatric residents and one-to-two third year medical students. Several medical students and residents select an elective rotation with our service. Our program continues to positively influence career choices for our residents. The section also provides a regular monthly outpatient rotation for PA students that is very highly regarded. In 2009, Pam Foster received an award from the OU Health Sciences Center PA Program as Outstanding PA Preceptor. The entire section participated again this year in a day-long educational in-service for nurses at the OU Medical Center.

Research
The section continues its commitment and active participation in the Children’s Oncology Group, with continued high levels of patient accrual to therapeutic and non-therapeutic COG trials. Dr. McNall-Knapp is the institutional PI for our COG activities. In 2009, (the most up-to-date data provided by COG) we ranked in the 81st percentile for enrollment of patients on therapeutic research studies; the section continues its strong commitment to participation in COG trials. Dr. Meyer continues his efforts on the executive committee of the Soft Tissue Sarcoma Committee and is vice chair of ARST0921, an open phase II study evaluating bevacizumab and temsirolimus combined with chemotherapy in patients with recurrent rhabdomyosarcoma. Dr. McNall is vice chair of ACNS0222, a COG phase II study that evaluated motexafin-gadolinium as a radiosensitizer for intrinsic pontine gliomas, that closed for accrual in late 2008 and is undergoing data analysis. We continue to actively participate in several pharmaceutical trials for bleeding disorders patients and for selected oncology patients. Our site is among 25 selected COG institutions that are conducting a pilot study in newly diagnosed high-risk acute lymphoblastic leukemia patients (AALL07P4) to evaluate a new formulation of PEG-asparaginase for IV administration. Dr. McNall continues to be actively involved in Texas-Oklahoma Pediatric Neuro-Oncology Consortium.

In 2010, our section published the results of our multi-institutional phase I pilot trial evaluating
the combination of vincristine, irinotecan and temozolomide with oral antibiotic. We found that this combination was very tolerable, typically delivered in the outpatient setting, and for some patients had excellent long term disease control of refractory disease. This data, along with other recent publications about variations of this combination, has enabled COG to conduct phase II trials and provide data to support the recently opened frontline protocol for high-risk metastatic rhabdomyosarcoma in COG.

The Soft Tissue Sarcoma Committee of COG reports results of several trials in 2009 and 2010. Several of these studies were developed and conducted during Dr. Meyer’s leadership of the STS Committee. These include: a) a phase II study establishing that shorter (five-day) schedule of irinotecan is as active as a 10-day schedule in recurrent rhabdomyosarcoma, the results now impacting almost all new study designs for this agent; b) reporting outcome for subgroups of Rhabdomyosarcoma, including completely resected Group I alveolar Rhabdomyosarcoma and analyzing outcome for Group III patients based on tumor response; and c) two publications that evaluate gene expression profiling that may permit molecular classification and predict outcome for children with rhabdomyosarcoma.

**Administrative Service**

All section members have contributed significantly to the OU Health Sciences Center and OU Medical Center through service on many committees. Dr. McNall-Knapp continues to serve on the OU Health Sciences Center Institutional Review Board, and has recently completed her service on the CMRI/CHF Board, as well as several other community organizations. Dr. Sexauer serves on the OMRF IRB and also actively serves many community organizations. Dr. Meyer serves on several administrative committees (OU Physicians Finance, OU Children’s Physicians Finance, OU IS Advisory Committee, Information Technology ELC, Children’s Health Care ELC and the OU Cancer Center Scientific Review Committee) and was appointed this year to serve on the Electronic Medical Records Meaningful Use Task Force. He continued through 2010 to serve on the COG Scientific Council and the COG Executive Committee. He completed his three-year-term as part of the editorial board for the *Journal of Clinical Oncology*, continues to serve on the editorial advisory board for Cancer and the Pediatric Oncology editorial board for the *European Journal of Cancer*, and was appointed to the editorial board of the *Journal of Pediatric Hematology and Oncology*.

The section’s 340B Hemophilia Factor Program grew rapidly in the last year, both to better serve the patients of Oklahoma with hemophilia and other bleeding disorders and also to provide financial support to our Bleeding Disorders Center. The Factor@Home Program is now well-established, and in 2010 had enrolled almost 100 patients in the program. This has enabled the Bleeding Disorders Center to add several staff, including a full time-social worker and additional registered nurse for the program, and to partially support a pharmacist in the center.

**HIGHLIGHTS**

Dr. Rooms leads the Pediatric Bone Marrow and Stem Cell Transplant Program and continues an active clinical program within our section. This Stem
Cell Program is certified by COG and accredited by Foundation for the Accreditation of Cellular Therapy. The inpatient program is housed in renovated, specially designed suites on the 10th floor of Children’s Hospital, OU Medical Center. Dr. Rooms is the section representative for the residency training program. She has been a board of trustees member of the Leukemia and Lymphoma Society, Oklahoma chapter, since 2009, and has participated in its Team-in-Training Marathons the past two years. She serves of the OU Medical Center Palliative Care and Transfusion Committees.

Dr. McNall-Knapp is the institutional PI for COG. She continues her interests in Central Nervous System tumors and thrombophilia. She leads the comprehensive Brain Tumor Clinic. She is on the study committee for a Children’s Oncology Group pilot study for high-grade gliomas (ACNS0222). She has expanded our comprehensive brain tumor program, working closely with Dr. Gross from Neurosurgery. She continues her work on a prospective study of children with thrombophilia. She continues her service on the OU Health Sciences Center IRB, a role she has had since 2006.

Dr. Cain continues her focus on the Comprehensive Sickle Cell Program. Since completing her tenure as the director of the Pediatric Residency Training Program and as vice chair for education in the Department of Pediatrics, she has committed her full efforts within our section to patient care and education. She was the secretary/treasurer in 2009 for the Oklahoma Chapter of Alpha Omega Alpha. She continues to chair the Oklahoma Sickle Cell Advisory Council, a role she has held since 2007. She also is on the Oklahoma Genetics Advisory Council. She is listed as a “Best Doctor in America” by Woodward White Inc.

Dr. Sexauer continues to be instrumental in our clinical oncology program. In addition to his large clinical care role, he is responsible for coordinating inpatient and outpatient care schedules for all faculty, physician assistants and our nurse practitioner. He continues his leadership responsibility for our electronic chemotherapy orders sheets to an electronic format, with more than 1,500 order sheets created. This effort substantially increases the safety and efficiency of our chemotherapy ordering process.

Dr. Meyer continues to serve on the COG Scientific Council and COG Executive Committee. He also continues major research efforts in sarcomas, serving on the Steering Committee for the Soft Tissue Sarcoma Committee. New studies were initiated from this committee to test addition of IMC-A12, an IGF-1R antibody and temozolomide to aggressive multi-agent chemotherapy in children with metastatic rhabdomyosarcoma in a pilot study phase II study, and a study to test the addition of bevacizumab or sirolimus to combination chemotherapy with cyclophosphamide and vinorelbine in children with first recurrent of rhabdomyosarcoma. Both studies may identify new agents for therapy in these high-risk populations. Dr. Meyer is listed as a “Best Doctor in America” by Woodward White Inc.

With the generous support of CMRI, the section continues its recruitment efforts for research positions as part the CMRI Children’s Cancer Research Program. This exciting expansion of our research aims to bring externally funded, laboratory-based investigators focused in pediatric oncology to the OU
Health Sciences Center campus. Dr. David Crawford was successfully recruited from the University of Alabama, Birmingham, and joined the faculty in July 2008. He has established his research lab, focusing his efforts on his basic science research in cancer biology, particularly the study of cancer cell division and the response to chemotherapeutic agents.

Sunnye Mayes joined the section on a full-time basis to provide more comprehensive psychology evaluations and support for our patients. Prior to this transition she had been closely involved with our Comprehensive Sickle Cell clinic and the Bleeding Disorders Program. However, the substantial needs of our patients with cancer had been largely unmet. The transition to full-time commitment to our patients has dramatically improved our ability to meet the psycho-social needs of our patients. She also has the primary responsibility for psychology interns and fellows during their training experience in pediatric hematology/oncology.

In 2010, Edmond Memorial High School selected the Jimmy Everest Center as the recipient of its annual Swine Week fundraising effort. EMHS raised $500,000 to support the educational and research missions of the center.

**TRAINING**

All PL-1 and PL-2 residents have a required inpatient rotation on the hematology/oncology service. Medicine/pediatrics residents fill some of these rotation slots. In addition, many upper-level pediatric residents select our outpatient elective.

Some third year medical students typically choose to do their inpatient pediatrics rotation on our service. Most weeks, a single third-year medical student has a one-week rotation in our outpatient setting. In the past year, several fourth-year students have selected the pediatric hematology/oncology outpatient elective.

**GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS**

**Grant and Contract Awards**

Direct/Project Period Direct

**P.I. J. Cain**

**Title:** Healthy/Ready to Work Transition Program

Funding source NRSA/OSDH

GRANT NO. C1015707 EFF DATES: 6/1/07

(continues) AMOUNT - $87,896

**P.I. R. McNeill-Knapp**

**Title:** Children’s Oncology Group – Principal Investigator Support

Funding source NCI

GRANT NO. C1023505 EFF DATES: 3/1/07

(continues) AMOUNT - $27,990

**P.I. W Meyer**

**Title:** Associate Chair, Children’s Oncology Group

Funding source NCI

GRANT NO. C3047002 EFF DATES: 3/1/09-2/28/11 AMOUNT - $14,347

**P.I. R. McNeill-Knapp**

**Title:** Children’s Oncology Group – Per Case Reimbursement

Funding source NCI

GRANT NO. C7018306 EFF DATES: 3/1/07 – continues AMOUNT - $66,703
**JIMMY EVEREST SECTION OF PEDIATRIC HEMATOLOGY AND ONCOLOGY**

**P.I. C. Sexauer**  
**Title:** Prevention of Complications of Bleeding Disorders (CDC)  
Funding source UTHSC - (Houston subcontract)  
GRANT NO. C2319513  
EFF DATES: 9/29/09 - 9/29/10  
AMOUNT - $91,597

**P.I. C. Sexauer**  
**Title:** Comprehensive Hemophilia Treatment Center (MCHB)  
Funding source UTHSC - (Houston subcontract)  
GRANT NO. C2319413  
EFF DATES 5/31/09 - 5/31/10  
AMOUNT - $61,416

**P.I. Meyer**  
**Title:** Teaching microscope for pediatric hematology/oncology  
Funding source: OCAST  
GRANT NO.  
EFF DATES 3/31/10  
AMOUNT - $5,000

**P.I. Crawford**  
**Title:** UBE2Q2 in Prophase Checkpoint Function and Cancer  
Funding source: OCAST  
GRANT NO.  
EFF DATES 8/11/09 - 7/31/11  
AMOUNT - $100,000

**P.I. J. Cain**  
**Title:** Oklahoma State Sickle Cell Contract  
Funding source DHS  
GRANT NO. C2341317  
EFF DATES: 7/1/07  
(Continues) AMOUNT - $124,018

**P.I. J. Cain**  
**Title:** Sickle cell disease Post-Transition Health Service Questionnaire. This is a local telephone survey tracking transition to adult care (no funding)

**Title:** Prevalence and Psychological correlates of nocturnal enuresis among children diagnosed with sickle cell disease. This is a multi-institutional study conducted with Dr. David Elkins (Univ. of Mississippi) (no funding).

**INDUSTRY CONTRACTS**

**P.I. Meyer**  
**Title:** South Plains Oncology Consortium (SPOC) Research Studies  
INDUSTRY NAME: SPOC AMOUNT - $12,500

**P.I. J. Cain**  
**Title:** A Single-Arm, Open-Label Study of the Palatability and T  
INDUSTRY NAME: Novartis AMOUNT - $27,300

**P.I. R. McNall**  
**Title:** Acute Lymphoblastic Leukemia (ALL) Treatment of a Patient  
INDUSTRY NAME: EUSA AMOUNT - per patient

**P.I. C. Sexauer**  
**Title:** Efficacy and safety of monthly replacement therapy with recombinant Factor XIII in subjects with congenital Factor XIII deficiency  
C8241201  INDUSTRY NAME: Novo Nordisk  
AMOUNT - $12,446

**P.I. C. Sexauer**  
**Title:** A study of immunologic safety of Alphanate…  
C8046901 INDUSTRY NAME: Grifos aka Alpha Therapeutics  
AMOUNT $ 30,000

**P.I. C. Sexauer**  
**Title:** HTRS Registry - Hemophilia Carrier Testing  
C7027401 INDUSTRY NAME: Novo Nordisk  
AMOUNT $ 9,800
P.I. R. McNall  
**Title** - A Phase II Study of Valproic Acid and Radiation  
**INDUSTRY NAME** - Baylor College of Medicine  
**AMOUNT** $11,250

P.I. J. Cain  
**Title** - Children w/Transfusional Hemosiderosis-Deferasirox  
**INDUSTRY NAME** - Novartis  
**AMOUNT** $ per patient

P.I. J. Cain  
**Title** - A randomized, open-label multicenter Phase II...  
**INDUSTRY NAME** - Novartis  
**AMOUNT** $40,000

**Current Year Direct Receipts**  
**SUB-TOTAL $305,622**  
**TOTAL $964,606**

*This total does not include those grants with a maximal total allowance and includes only one patient accrual for each study with a dollar amount/accrual.

**PUBLICATIONS**

**PEER-REVIEWED**


JIMMY EVEREST SECTION OF PEDIATRIC HEMATOLOGY AND ONCOLOGY


CHAPTERS


ABSTRACTS


Dorsey D, Mayes S, Johnson A, Gonzalez C, Cain J: Transition for patients with sickle cell disease: Is it possible to have a successful transition experience in communities without access to adult sickle cell programs? Poster presentation at the NIH/National Sickle Cell Program meeting in Florida, February 2009.
Risch E, Pennington H, **Mayes S**, Dorsey D, **Cain J**: Preparing for transition: An examination of health literacy among adolescents with sickle cell disease. Poster presentation at the NIH/National Sickle Cell Program meeting in Florida in February 2009.


**NATIONAL COMMITTEES**

Dr. Meyer served as chair of the Soft Tissue Sarcoma Committee (completing his tenure in the summer of 2008). He also chaired the Disease and Discipline Committee Chairs for COG (elected) until his term expired in late 2008. He continues in these roles on the COG Scientific Review Committee and the COG Executive Committee. He served on the editorial board for *Journal of Clinical Oncology* (term ended 2009) and is presently on editorial advisory board for Cancer, and Pediatric Oncology editorial board the *European Journal of Cancer*. He was appointed to the Editorial Board of *Pediatric Hematology and Oncology* in 2010. He was an ad hoc National Cancer Institute reviewer for the Eastern Cooperative Oncology Group site review (2009) and for the University of Pennsylvania Comprehensive Cancer Center competitive renewal (2010). He has been a reviewer for St. Baldrick’s Foundation research and fellowship grants in 2008, 2009 and 2010.
PEDiATRIC INFECTIOUS DISEASES

The Section of Infectious Diseases is highly committed to the three primary missions of the Department of Pediatrics, i.e., patient care, education and research. It maintains a very strong presence in patient care and education by providing inpatient and outpatient consultations to children with complex infections and children with immunologic disorders. These consultations assure optimal management for these patients, as well as provide opportunities for teaching medical students and residents the science and art of the practice of pediatric infectious diseases. The section’s faculty further plays a major role in the education of medical students, interns and residents by functioning as attending physician for the pediatric ward teams. Research is one of the strengths of the Pediatric Infectious Diseases Section. Its members are engaged in various basic and clinical research projects, including an NIH-funded study. They have published their findings in refereed journals and have made presentations in national and international scientific meetings.

HIGHLIGHTS

Clinical Activities

The patient-care services of the Section of Infectious Diseases include 1) providing inpatient and outpatient consultations for children with difficult/severe and complex infections, (consults are requested by physicians in various specialties and subspecialties at the OU Medical Center and by physicians from across the state of Oklahoma) 2) provision of inpatient care as attending physician for team patients admitted to the various nursing units of the Children’s Hospital at OU Medical Center and 3) supervision of the virology clinical laboratory at the OU Medical Center. In the past year, the section provided consultative care to hospitalized children for a total of 433 patient days at the Children’s Hospital at OU Medical Center. Additionally, section faculty members functioned as attending physicians to 83 inpatient team patients for a total of 631 patient days. The outpatient consultations were provided via scheduled visits to the Infectious Diseases Clinic (at the OU Children’s Physicians Specialty Clinic) and to the

PHiLIP J. REttiG, M.D.
Professor of Pediatrics;
Section Chief, Adolescent Medicine

THERRENCE L. STUll, M.D.
CMRI Patricia Price Browne Endowed Chair; Professor;
Chairman, Department of Pediatrics

PAUL WHiTBY, Ph.D.
Research Associate Professor of Pediatrics

THOMAS SEALE, Ph.D.
Research Professor of Pediatrics
Intravenous immunoglobulin (IVIg) Infusion Clinic at the Jimmy Everest Center. There were 383 scheduled outpatient visits last year. “Curbside consults” were very frequently sought from the infectious diseases faculty by residents and faculty of various pediatric medical and surgical specialties, but these consults are not officially tallied. The section also provided telephone consultations to pediatricians, family physicians and primary care providers of children across the state of Oklahoma; there were more than 400 such consults during the last year. This past year, there were telephone consultations from Tulsa physicians regarding hospitalized children with infections because of the absence of a pediatric infectious diseases specialist in that region.

**Teaching Activities**

Teaching commitments of the section included holding didactic lectures and conferences for medical students, MS-I through MS-IV; providing elective rotations in the Pediatric Infectious Diseases Section for MS-IV and pediatric residents; conducting weekly conferences and walk rounds in infectious diseases; giving core lectures on infectious diseases to interns and residents; presenting at pediatric grand rounds; and conducting bedside or ward teaching of medical students and house staff during team attending rounds and during consults.

**Service Activities**

Dr. Stull serves on the following committees: Liaison Committee on Medical Education Self-Study Task Force, Faculty Matters Committee; EXCEL Steering Committee (Studer Service Initiative), co-chair, OU College of Medicine; Children’s Hospital Health Alliance; Steering Committee, OU Cancer Institute; and board of directors, Academic Physicians Insurance Corporation. Dr. Stull was acting director of both the Division of Emergency Medicine and the Division of Infectious Diseases.

Dr. Bowlware is a member of the Pediatric House Staff Education Committee.

Dr. Rettig is director of the OUCP Adolescent Clinic and member of the OUCP Committee and OU Medical Center Pediatric Clinical Service Committee. He serves on the Basic Sciences Curriculum Committee as course director of the PPS-Clinical Ethics course. He is chairman of the OU Physicians Ethics Committee and co-chairman of the OU Medical Center Hospital Ethics Committee.

Dr. Chavez-Bueno is a member of the Infection Control Committee of the OU Medical Center, and is on three scholarship oversight committees for fellows in other divisions.

**RESEARCH ACTIVITIES (GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS)**


“Vancomycin Use in Children.” Chavez-Bueno, S., Principal Investigator, investigator-initiated project. 2009-Present. OU IRB number: 14662

“Iron Transporting proteins and Invasive Infections in pediatric patients.” Chavez-Bueno, S., Principal
Investigator. Investigator-initiated project. 2006-Present. OU IRB number: 12953


PUBLICATIONS


PRESENTATIONS

Morton DJ, Seale TW, Cole BK, Bauer C, Whitby PW, and Stull TL. The Periplasmic Serine Protease (HtrA) is a Virulence Determinant in Haemophilus influenzae Type b. AMERICAN SOCIETY FOR MICROBIOLOGY GENERAL MEETING, SAN DIEGO, CA, May 2010.

Whitby PW, VanWagoner TM, Seale TW, Morton DJ, and Stull TL. Comparison of the In Vivo and In Vitro transcription of the iron/heme core modulon of Haemophilus influenzae. AMERICAN SOCIETY FOR MICROBIOLOGY GENERAL MEETING, SAN DIEGO, CA, May 2010.


NATIONAL REVIEW PANELS

Dr. Stull is a member of the National Institute of Health Grant Review Study Section, Infectious Diseases, Internet Assisted Review (ad hoc)

JOURNALS REVIEWED (DIVISION MEMBERS)

Archives of Pediatrics and Adolescent Medicine
Clinical Infectious Disease
Clinical Pediatrics
Infection and Immunity
Journal of Adolescent Health
JAMA
Journal of Clinical Virology
Journal of Epidemiology
Journal of Infectious Diseases
Journal of Pediatrics
Pediatrics
Pediatric Infectious Diseases Journal
Sexually Transmitted Diseases Journal
Southern Medical Journal
NEONATAL-PERINATAL MEDICINE

The goal of the Neonatal-Perinatal Section is to provide excellent care measured by national standards to all newborns, whether they are apparently normal at birth or afflicted with any abnormal condition, by:

1. Our provision of a clinical service that employs the entire spectrum of services and resources which modern medicine can offer including transport, the expertise of other medical and surgical services and follow-up care in a setting of family centeredness
2. Our training of current and future providers of care to newborns including transport nurses, nurse practitioners, medical students, residents, fellows and our colleagues
3. Our scientific studies, which provide new knowledge of:
   a. disease and treatment of disease
   b. the translation of that knowledge into practice
   c. the delivery of care and the maintenance of quality of care
   d. methods of effective teaching and learning

CLINICAL CARE

During the 2010 calendar year, the Neonatal-Perinatal Medicine Section continued to:
• Grow the neonatal service, providing approximately 10 percent more patient days than in 2009, with 30,000 patient-care days in 2010
• Improve the transport program, Neoflight, by working to have a helicopter on site, thus cutting response time
• Recruiting and training nurses to enroll in master’s programs for education
• Accrue talent by attracting three new neonatologists - Vadim Ivanov, Clara Song, Patricia Williams; a neonatal hospitalist - Melissa Klitzman; and one new pediatrician - Laura Hunt
• Encourage planning for the development of more space for neonatal care as the needs grow beyond the current 35,000 square feet and 88 beds
• Work with the hospital to improve the mother/baby unit by opening a six-bed Baby Care Area staffed by Neonatal Intensive Care Unit nurses

SECTION PROFILE

Number of Faculty - 19
Number of Fellows - 4
Number of Residents - 6-9 each month
Number of Students - 5 students each week
Annual Total Grant/Contract Support (direct) - $5,861,566

Inpatient NICU patients:
   a) Patients admitted to service 2010 - 1,166
   b) Average Daily Census - 75 patients
   c) Average Length of Stay - 21 days
   d) Inpatient Days - 24,397

Inpatient Mother Baby Unit Patients:
   a) Patients admitted to service - 2,085
   b) Inpatient Days - 6,168

Outpatient Clinics Visits:
   a) Premier Clinic - 1.5 days each week - 159 patients/year
   b) BPD Clinic - ½ day each week - 113 patients/year

Total Annual 2010 Clinical Revenue exceeded $8,240,516

Photo by TaylorMade Photography

RAJA NANDYAL, M.D., Clinical Associate Professor
RITA P. RAMAN, M.D., Professor
ROGER E. SHELDON, M.D., Professor (Retired on October 1, 2010)
KRISS C. SEKAR, M.D., Professor
CLARA SONG, M.D., Assistant Professor
ANDREA WILLEITNER, M.D., Assistant Professor
PATRICIA WILLIAMS, M.D., Assistant Professor
ANNE G. WLODAVER, M.D., Clinical Associate Professor
• Improve the care in the mother/baby unit, as well as helping to prevent unnecessary admission to the Neonatal Intensive Care Unit.
• Work cooperatively with Obstetrics/maternal fetal medicine to improve services and keep MFM talent.
• Dr. Marvin Williams was invited to be part of the pediatric delegation to China in the summer of 2010.
• Improve our regional outreach with Perinatal Continuing Education Program, OU Medical Center and OU Physicians marketing, and NeoFlight education services. Tawney Poulsen has worked closely with HCA, Obstetrics and Pediatrics Department to keep these efforts coordinated and moving forward. The effort to build a maternal transport program is an ongoing endeavor, started in 2010, and may reach reality in 2011.
• Support, develop and recruit the neonatal nurse practitioner group. In 2010, three NNPs were added to the group and eight were mentored in their master’s program. Currently, 17 of 21 NNPs are MS qualified.
• Develop the very low birth weight follow-up program in addition to the maintenance of the bronchopulmonary dysplasia clinic. With the efforts of the nurse navigator, Debbie Rice, the VLBW program has now achieved a compliance rate of approximately 50 percent. The program will begin meeting in the new OU Children’s Physicians building in 2011.
• Provide, under the direction of Dr. Raja Nandyal, the Oklahoma Areawide Services and Information System, funded from the Department of Human Services, services to Oklahoma children with special needs. OASIS has been a co-sponsor of the National Respite and Crisis Care Conference in Oklahoma City and continues to provide region Family Perspective Conferences across the state. Likewise, to provide under the direction of Dr. Raja Nandyal the services of the Oklahoma Infant Transition Services.
• Provide expertise and organization of the Children’s sleep lab service. Under the direction of Dr. Kris Sekar and one other faculty member, 1,178 pediatric sleep studies were provided and interpreted in 2010.

TEACHING

On a daily basis the faculty continues to teach residents and students at the bedside.

Additionally, the faculty teaches by speaking in various venues; there were 21 invited talks outside our own institution in 2010.

FELLOWSHIP PROGRAM

The Neonatal-Perinatal Medicine Fellowship is an The Accreditation Council for Graduate Medical Education approved and accredited Pediatric subspecialty three-year training program. The program continues to be the cornerstone of intellectual scientific discussion in the section. Weekly conferences are presented based on neonatal, perinatal and mortality cases as well as regular reviews of the scientific literature.

Fellows and faculty participate in regional and national meetings: the SSPR and the Pediatric Academic Societies

There were 12 poster or platform presentations by faculty and fellows in 2010.

One fellow, Jami Lewis, completed training and took a position in Oregon.
Three fellows continued: Whitney Cline, Arlen Foulks, and Kimberly Judd

One new fellow started: Courtney Atchley

**CONTRACTS**


2. Nandyal, R.; Oklahoma Commission on Children and Youth ($75,000) for the Oklahoma Area wide Services Information System (OASIS). Legislative appropriation for this project, 1987-the present. Competitive renewal each year.


5. Gottipati, V.; OU Medical Center, Neoflight, Director for Neonatal Transport ($15,000)

6. Sekar, K.; OU Medical Center, Director for Sleep Lab Services ($18,750)

7. Escobedo, M.; OU Medical Center, Neonatal Nurse Practitioner Service ($2,183,626)

8. Escobedo, M.; OU Medical Center, Neonatal Transport Team Services ($1,300,000)

9. Escobedo, M.; OU Medical Center, Faculty Moonlighting Support ($314,355)

10. Escobedo, M.; St. Anthony Hospital, Neonatology On-Call Service Agreement ($100,000)

**GRANTS**

1. Marilyn Escobedo, M.D., Section Chief, Neonatal-Perinatal Medicine Biosynexus Pagibaximab in Very Low Birth Weight Neonates for the Prevention of Staphylococcal Sepsis - $162,500

2. Kris Sekar, M.D., Nitric Oxide as An Adjunct to Neonatal Resuscitation Protocol - $177,725

**PUBLICATIONS**


NEONATAL-PERINATAL MEDICINE


PUBLISHED ABSTRACTS


Presented at Pediatric Academic Societies, Vancouver 2010.


SERVICE AND COMMITTEES

UNIVERSITY/HOSPITAL/LOCAL COMMITTEE SERVICE:

Dr. Marilyn Escobedo’s service:
• Reba McEntire Endowed Chair in Neonatology
• Director of Neonatal Services, OUMC
• Chief, Neonatal Perinatal Medicine, Department of Pediatrics

Dr. Kimberly Ernst’s service:
• 2010 - present, Fellow Scholarship Oversight Committee - Whitney Cline, D.O.
• 2009 - present, Fellow Scholarship Oversight Committee - Kimberly Judd
• 2009 - present, Educational Representatives committee member
• 2008 - present, Residency Education committee eLearning member
• 2006 - present, Neonatal Mortality Ad Hoc Committee, member
• 2010 - present, OU Health Sciences Center Patient Simulation Committee

Dr. Mary Anne McCaffree’s service:
• 2002 - present, council, Central Oklahoma Turning Point
• 2002 - present, co-chair, Federal Government Committee, OK Medical Association
• 1983 - present, Council on Public and Mental Health, OK State Medical Association

Dr. Raja Nandyal’s service:
• 2010 - present, medical director, Oklahoma Infant Transition Program
• 2010 - present, medical director, Oklahoma Areawide Services Information Systems for Handicapped Children
• 2010 - present, medical director, Oklahoma Infant Transition Clinic
• 2007 - present, medical director of PremieR Clinic (Multidisciplinary High-Risk Follow up Clinic)
• 2006 - present, chairman, Neonatal Mortality Committee
• 2006 - present, member, OU Health Sciences Center Transfusion Committee
• 2010 - present, Fetal-Infant Mortality Review
NEONATAL-PERINATAL MEDICINE

Dr. Kris Sekar’s service:
• 2010 - present, associate chief of staff, Children’s Hospital, OU Medical Center
• 1992 - present, medical director, Neonatal Intensive Care Unit, OU Medical Center, Children’s Hospital
• 1984 - present, medical director, Pediatric Sleep Lab, OU Medical Center, Children’s Hospital
• 2009 - present, co-chair, Quality Improvement Committee
• 2006 - present, chair, Clinical Practice Guidelines Committee
• 2001 - present, member, Pharmacy and Therapeutics Committee, OU Medical Center
• 1997 - present, member, Neonatal Development Committee, Children’s Hospital Neonatal Intensive Care Unit
• 2009 - 2010, Member, College of Medicine Admissions Board
• 2000 - present, member, Faculty Appeals Board, OU Health Sciences Center

Dr. Whitney Cline’s service:
• 2009-present, Resident Education Committee, Neonatal-Perinatal Medicine, OU College of Medicine
• 2008-present, Resident Council Committee, OU College of Medicine

Dr. Anne Wlodaver’s service:
• 2007 - present, medical director, Delivery and Transitional Areas, Oklahoma Children’s Hospital at OU Medical Center
• 2010, Clinical Guidelines Committee, OU Medical Center
• 2010, Bereavement Committee, OU Medical Center
• 2010, Mortality Committee, OU Medical Center
• 2010, Faculty Adviser for Medical School Students, OU College of Medicine
• 2010, Fetal-Infant Mortality Review

Dr. Marilyn Escobedo’s service:
• 2003 - 2010, National Neonatal Resuscitation Program, Steering committee member, American Academy of Pediatrics
• 2003 - present, Southern Society for Pediatric Research, Institutional Representative to the Council
• 2003 - present, American Board of Pediatrics, PMCP-G Examination Committee; chair of the MOC-G Examination Planning Committee; chair of the MOC-G Examination Committee – Group D
• 2003 - present, American Academy of Pediatrics, Perinatal Section, NeoPrep Committee, member and past chair
• 2000 - present, National Perinatal Information Center, board of directors (chairman 2003)
• 2005 - present, NeoReviews Editorial Board
• 2005 - 2010, ILCOR Neonatology Committee
• 2008 - present, SoPpe Website Committee
• 2009 - present, NCMHEP Committee

NATIONAL/INTERNATIONAL COMMITTEE SERVICE:

Dr. Marilyn Escobedo’s service:
• 2003 - 2010, National Neonatal Resuscitation Program, Steering committee member, American Academy of Pediatrics
• 2003 - present, Southern Society for Pediatric Research, Institutional Representative to the Council
• 2003 - present, American Board of Pediatrics, PMCP-G Examination Committee; chair of the MOC-G Examination Planning Committee; chair of the MOC-G Examination Committee – Group D
• 2003 - present, American Academy of Pediatrics, Perinatal Section, NeoPrep Committee, member and past chair
• 2000 - present, National Perinatal Information Center, board of directors (chairman 2003)
• 2005 - present, NeoReviews Editorial Board
• 2005 - 2010, ILCOR Neonatology Committee
• 2008 - present, SoPpe Website Committee
• 2009 - present, NCMHEP Committee
Dr. Kimberly Ernst’s service:
• 2010, Neonatal Resuscitation Program Steering Committee
• 2009 - present, Women’s and Children’s Clinical Services Group
• 2008 - 2010 American Academy of Pediatrics Section on Perinatal Pediatrics website Committee
• 2007 - present, Perinatal Task Force for Electronic Health Records

Dr. Mary Anne McCaffree’s service:
• 2008 - present, Board of Trustees, American Medical Association
• 2008 - present, Executive committee member, American medical association
• 1998 - present, Women’s Physicians Congress, AMA
• 1996 - present, Pediatric Section Council, American Medical Association
• 1995 - present, Member American Academy of Pediatrics Section Council to American Medical Association

Dr. Raja Nandyal’s service:
• 2010 - present, Steering Committee, National Perinatal Association
• Sept 2010, co-chair: Continuing Medical Education Program, organized by Andhra Medical College Alumni of North America in the annual National meeting, Orlando, Fla.

Dr. Rita Raman’s service:
• 2009 - present, member, American College of Legal Medicine Committee on Government and Regulatory Affairs
• 2003 - present, board member, International Colleges for the Advancement of Nutrition
• 2008 - present, editorial board member and co-founder, Revista de Nutrologia, Journal of Nutrology

Dr. Kris Sekar’s service:
• 2010 - present, board member, Journal of Perinatology Editorial Board
• 2010 Journal of Perinatology - supplement

Dr. Clara Song’s service:
• 2010 - present, workshop on perinatal practice strategies planning group, American Academy of Pediatrics Section on Perinatal Pediatrics
• 2009 - present, American Academy of Pediatrics Perinatal Section website Committee, American academy of pediatrics Perinatal Facebook page and groups administrator
• 2009 - present California Association of Neonatologists Board Fellow Representative Committee for Fellows’ Section on CAN website
NEONATAL-PERINATAL MEDICINE

NATIONAL/INTERNATIONAL INVITED LECTURES, AWARDS

Dr. Marilyn Escobedo:
• NEOPrep Speaker, February 2010, Los Angeles - “Aspects of Neonatal Pain”
• Institutional Resuscitation Conference, May 2010, Vancouver - “Transitional Circulation”
• Jilin University, June 2010, ChangChun, China, - “BPD”
• Lanzhou Hospital, June 2010, Lanzhou, China, - “BPD”
• Perinatal Section District 6, September 2010, Chicago - “Evidence Based Changes in NRP”
• American Academy of Pediatrics Apgar Presentation of William Keenan, October 2010, San Francisco
• NCE Careers Workshop, October 2010, San Francisco

Dr. Mary Anne McCaffree
• AAP/FAMRI Visiting Lectureship, American Academy of Pediatrics Julius B. Richmond Center of Excellence. March, 2010

Dr. Kris Sekar:
• Scientific program director, speaker, International Symposium of Neonatal Respiratory and Intensive Care Medicine, 2010, Huangshan, China
• Visiting professor, Children’s Hospital of Fudan University, 2010, Shanghai, China
• Speaker and moderator, International Symposium of Neonatal Medicine, Childrens Hospital of Hunan Province, 2010, Changsha, China
• Speaker, Neonatal Symposium, Nanjing Children’s Hospital, 2010, Nanjing, China
• Speaker, Chongqing Daping Hospital of Third Military Medical University, 2010, Chongqing, China
• Speaker, Yunnan University Kunming Medical College, 2010, Kunming, China
• Visiting professor, Childrens Hospital and Maternity Hospital, 2010 Kunming, China
• Moderator, 23rd International Workshop on Surfactant Replacement Therapy, Moscow, June, 2010
• Excellent Teacher Award, Class of ‘69, Madras Medical College, January, 2010, Madras, India
Dr. Rita Raman

- Treatment of terminally ill children: Ethics and Law, invited lecture at the Day With the Judges Symposium, sponsored by Oklahoma State Medical Association and Oklahoma Bar association, Oklahoma City, October 2010
- Obesity: Genetic, epigenetic and metagenomic influences. For presentation at the Brazilian Nutrition Society, Sao Paulo, September 2010
- Applicability of study results: What are the standards of proof and validity? World Association of Medicine and Law Meeting, Zagreb, Croatia, August 2010
- Informed consent and risk management in pediatric and primary care. For presentation at the American College of Legal Medicine, Orlando, Florida, March 7, 2010
Faculty

Martin A. Turman, M.D., Ph.D., Professor of Pediatrics, Section Chief, Medical Director of Pediatric Dialysis at Children’s Hospital at OU Medical Center, and Paul and Ann Milburn Endowed Chair in Pediatric Nephrology.

Dwayne Henry, M.D., Assistant Professor.

Olivera M. Couloures, M.D., Assistant Professor.

Gerard Elberg, Ph.D., Assistant Professor.
**PEDIATRIC NEPHROLOGY**

The Section of Pediatric Nephrology currently has a clinical component and clinical and basic science research components.

**CLINICAL COMPONENT**

The clinical component consists of three faculty members: Martin A. Turman, section chief and professor, M.D., Ph.D. Dr. Turman also serves as medical director of the Pediatric Dialysis Unit at The Children’s Hospital at OU Medical Center and the director of Pediatric Renal Transplantation, Dwayne Henry, M.D. and Olivera Couloures, M.D. For clinical support personnel, the section also has Kim Brooks, RN, nurse educator, Melanie Thompson, RN, nurse educator, Corinne Birdwell, ARNP and one secretary, Wendy Migneault. The hospital provides a social worker for inpatients and transplant patients and an inpatient diettian who has developed expertise with nephrology patients.

Dr. Turman was selected as one of the “Best Doctors in America” and one of the “Best Doctors in Oklahoma.”

**BASIC SCIENCE RESEARCH COMPONENT**

The basic laboratory component consists of Gerard Elberg, Ph.D., assistant professor. Other personnel in the lab include Dorit Elberg, Ph.D., research associate.

**Basic Science Research:**

Evidence of the section’s scientific endeavors include:

- Dr. Turman reviewed several manuscripts for the journals *Pediatric Nephrology* and *Pediatric Transplantation*

- Dr. Elberg reviewed several manuscripts for various journals

- Dr. Turman served on the Research Committee of the American Society of Pediatric Nephrology

- Dr. Elberg reviewed grants for the Department of Defense

- Dr. Elberg served on the Research Day Committee

**SECTION PROFILE**

- **Number of Faculty** - Four
- **Number of fellows**: None
- **Number of students**: None
- **Number of support personnel:**
  - Two outpatient nurse educators, one of which is partially supported by the hospital as a pediatric kidney transplant coordinator, one nephrology nurse practitioner; one research associate, one secretary
  - Hospital-based personnel include dialysis nurses, social worker and diettian.

**Annual total grant support (direct costs):** $16,500

**Annual total industry contracts:** $205,338

**Number of peer reviewed publications in 2010:** One abstract

*Photo by TaylorMade Photography*
PEDIATRIC NEPHROLOGY

Clinical Research:
Grants Active in 2009:
- NIH sponsored multicenter clinical studies on:
  - Chronic Kidney Disease in Children
  - NAPRTCS sponsored Dialysis, Transplantation and Chronic Kidney Disease patient registry
  - Cubist Pharmaceuticals, “Study of the Pharmacokinetics of Daptomycin in Children with Renal Disease, for $123,085, 8/2009 to 4/2012
• Abbott Protocol P12-053: “A Prospective, Multicenter Study to Evaluate the Safety of Vitamin D Receptor Activators as Determined by Hypercalcemia in Patients ages 0-16 with Chronic Kidney Disease (CKD) Stage 5 Receiving Peritoneal Dialysis (PD) within Current Clinical Practice.
• Abbott Protocol M10-149, “A Phase 3, Prospective, Randomized, Double-blind, Placebo controlled Multicenter Study to Evaluate the Safety and Efficacy of Paricalcitol Capsules in Decreasing Serum Intact Parathyroid Hormone Levels in Pediatric Subjects Ages 10 to 16 years with Moderate to Severe Chronic Kidney Disease (Part I)"

HIGHLIGHTS OF ANNUAL YEAR
• Initiation of three new clinical grants with Dr. Turman as local PI or co-investigator (see above)
• Development by Dr. Henry of a 24-hour ambulatory blood pressure monitoring program
• Dr. Couloures developed two investigator-initiated studies:
  ° USE OF IONIC DIALYSANCE TO ESTIMATE KT/V IN PEDIATRIC HD, IRB approved on 05/25/10.
  ° USE OF CYSTITIN C IN HEMODIALYSIS QUANTIFICATION IN CHILDREN, IRB approved on 09/15/10

• Submitted for publication: Olivera Marsenic, Kristi Booker, Kathleen Studnicka, Donna Wilson, Ann Beck, Tiffany Swanson, Dwayne Henry, and Martin Turman. Frequent monitoring of pediatric hemodialysis adequacy without blood sampling by ionic dialysance, submitted to Pediatric Nephrology
• Abstract accepted for oral presentation at the Annual Dialysis Conference, Phoenix, AZ, Feb 2011: Olivera Marsenic, Kristi Booker, Kathleen Studnicka, Donna Wilson, Ann Beck, Tiffany Swanson, Dwayne Henry, Martin Turman: Use of ionic dialysance to calculate Kt/V in pediatric hemodialysis
• Dr. Couloures passed her Pediatric Nephrology Board exam and Dr. Henry passed his General Pediatric Board exam.

TRAINING:
• All three doctors presented multiple residency noon lectures.
• Both Dr. Couloures and Dr. Henry gave grand rounds.
• Dr. Turman is a member of the Resident Education Committee.
• All three doctors teach all of the pediatric third-year residents who are assigned to the Nephrology “Selective.” Also, we teach any pediatric or family practice residents and medical students who either take the nephrology elective, or are rotating on the pediatric ward service. This teaching revolves around individualized teaching of clinical medicine while attending on the ward, inpatient service. Medical students and residents on nephrology elective also rotate through the outpatient clinic.
• Dr. Elberg gives a lecture on “Kidney Development” to cell biology graduate students.
GRANTS, CONTRACTS, AND INDUSTRY AGREEMENTS IN 2010:

• NIH Chronic Kidney Disease in Children Multicenter Study ($15,000)
• North American Pediatric Transplant Cooperative Studies Registries ($1,500)
• Autosomal Recessive Polycystic Kidney Disease Patient Registry
• Cubist Pharmaceuticals, “Study of the Pharmacokinetics of Daptomycin in Children with Renal Disease” for $ 123,085, 8/2009 to 4/2012 (including $37,071 in salary support)
• Abbott Protocol P12-053: “A Prospective, Multicenter Study to Evaluate the Safety of Vitamin D Receptor Activators as Determined by Hypercalcemia in Patients ages 0-16 with Chronic Kidney Disease (CKD) Stage 5 Receiving Peritoneal Dialysis (PD) within Current Clinical Practice. $71,950
• Abbott Protocol M10-149, “A Phase 3, Prospective, Randomized, Double-blind, Placebo controlled Multicenter Study to Evaluate the Safety and Efficacy of Paricalcitol Capsules in Decreasing Serum Intact Parathyroid. $133,388

PUBLICATIONS:

• Marsenic O, Zhang L, Zuppa A, Barrett JS, Pfister M. Application of Individualized Bayesian Urea Kinetic Modeling to pediatric hemodialysis, American Society for Artificial Internal Organs J (ASAIO J), May-June 2010;56:246-253

Patient encounters (approximates) in year 2009

Inpatient: Total patient
  encounters FY 2010 FY2009
  Admissions 158 141
  Consults 144 91
  Follow-up visits 1387 779
  Renal biopsies 63 64

Outpatient: Total patient visits
  New patients and consults 515 415
  Follow-up visits 1392 869

Renal Transplant Service
  New transplants 9 9
  Total transplant patients 53 38

Dialysis
  Chronic dialysis patients 17 - 22 22

National Committees (members, officers, etc.)

Martin Turman:

• Member, Research Committee, American Society of Pediatric Nephrology, 2000-present
• Kamp Kidney of Oklahoma, Medical Director, 2001-present
• Member, Education and Outreach Committee, ESRD Network 13, 2003-present
JAMES ROYALL, M.D.
C.R. Anthony Professor of Pediatric Pulmonology
Section Chief, Pediatric Pulmonology Section
Director, Oklahoma Cystic Fibrosis Center
Director, Pediatric Home Ventilation Program of
Oklahoma; Director, Tulsa Cystic Fibrosis Center
(affiliate); Board Certified: Pediatrics, Pediatric
Pulmonology, Pediatric Critical Care

NIGHAT MEHDI, M.D.
Associate Professor, Pediatric Pulmonology Section
Medical Director, Respiratory Therapy for
Children’s Hospital
Board Certified: Pediatrics, Pediatric Pulmonology
The Pediatric Pulmonology Section has three faculty members: Dr. James Royall (since 6/1997), Dr. Nighat Mehdi (since 7/2002) and Dr. Hassan Dbouk (since 7/2008). We are currently in the process of recruitment for the fourth faculty member. This is the second year of that effort.

We continue to run a busy clinical service, including service in the community (outside of our physical campus location) and are conducting clinical trials primarily related to cystic fibrosis.

Dr. Dbouk is active in pediatric sleep medicine. He is active in sleep study interpretation (all sleep study interpretations are by him) and works within the organization of the Sleep Lab. He will be taking the Sleep Medicine Boards this fall. Dr. Royall continues his routine involvement at The Children’s Center in Bethany, both in terms of weekly rounds for help with patients with pulmonary issues and in utilizing the resources of that center for pediatric home ventilation training.

Dr. Royall conducts a weekly Cystic Fibrosis Clinic at OU Health Sciences Center-Tulsa and continues as director for that affiliate center. Currently, he is following about 62 patients with cystic fibrosis, and additionally, 11 pediatric patients on home ventilation. Due to limited time availability, non-CF patients will be required to be seen at OU Health Sciences Center in Oklahoma City beginning in March of 2011.

Our CF Center is a Therapeutic Developments Center and Dr. Royall serves on the Publications and Presentations Committee for the CF Foundation Therapeutics Developments Network. We have two full-time research staff, which is necessary to conduct this level of operation. They are doing an outstanding job.

Near-term issues for our section include how to expand our clinical availability when recruitment of new pediatric pulmonology-trained faculty is a difficulty. It may be that we will need to expand with care providers who are not pediatric pulmonology fellowship-trained. We have requested a nurse practitioner as part of our clinic staff from OU Physicians for the next budget cycle as part of this process. If approved, we may need to convert some space to examination rooms.

### SECTION PROFILE

<table>
<thead>
<tr>
<th>Number of Faculty</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Fellows</td>
<td>0</td>
</tr>
<tr>
<td>Number of Students/Residents</td>
<td>We do not keep records of number of students. We have student encounters with medical students both in the classroom in early years and during clinical rotations in later years. This year we have interacted with more students and residents in the clinic. In the distant past, our clinic was a site for routine rotations for third-year medical students. For a few years, this was discontinued, but last year our clinic became again a site for routine MS3 rotations. We have also had one MS1 rotate in our clinic. With the new curriculum, first-year medical students can choose clinical electives. It seems that more fourth year students and Med/Peds residents are choosing elective rotation in our clinic. We have had several MS4s from outside Oklahoma City choose elective rotations in Pediatric Pulmonology. We also routinely have students from nursing, nurse practitioner trainees, social work, etc. with rotations through our clinic.</td>
</tr>
</tbody>
</table>

**Photo by TaylorMade Photography**

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**HASSAN DBOUK, M.D.**
Associate Professor, Pediatric Pulmonology Section
Board Certified: Pediatrics, Pediatric Pulmonology
We recently encountered the concept of utilizing general pediatricians for pulmonology but have not determined whether this is administratively acceptable and whether this would be an attractive position for this group. We have discussed a pediatric pulmonology fellowship as a more long-term solution. Feedback from multiple individuals is that it would not be advisable to try to accomplish this in a section with three faculty members. We would pursue this when our section expands to four faculty members or if utilization of non-pediatric pulmonology fellowship trained providers is substantially successful.

**TEACHING**

Routinely scheduled formal presentations include: pediatric grand rounds (two per year) and four presentations for the Pediatric Resident’s Core Curriculum Conferences. Third-year medical students routinely rotate in the Pulmonary and Cystic Fibrosis Clinic. Dr. Royall conducts a clinical correlation session on cystic fibrosis as part of the Molecular and Cellular Systems course for 1st year medical students. During the year, one 1st year medical student, about six 4th year medical students and about four Medicine-Pediatrics residents participated in a Pulmonology and CF clinic elective. Intermittently, trainees from nursing, nurse practitioner programs, social work, nutrition, and respiratory therapy will use our clinic as a source of experience.

**RESEARCH**

Our main research is clinical trials related to cystic fibrosis. We are a Cystic Fibrosis Foundation Therapeutic Developments clinic. This past year, we have completed three research protocols and have three studies in progress at various stages. There are two additional studies that will be submitted to the IRB early this year.

Annual Total Grant Support - $297,350 received in 2010 ($176,560 from CF Foundation and $120,790 from industry-sponsored clinical research)

Government/Foundations - 2

Cystic Fibrosis Center Grant (CF Foundation) –
Pl: James Royall, M.D.
Amount: $104,740 ($70,740 for main center on OU Health Sciences Center campus and $34,000 for affiliate center in Tulsa)

Funding Period – 7/1/10 to 6/30/11 [Annual Renewal]
Therapeutic Developments Center Award (Cystic Fibrosis Foundation Therapeutics)
Co - Pls: James Royall, M.D. / Kellie Jones, M.D.
Amount: $71,820

Funding Period: 1/1/10 to 12/31/10
Annual Total Industry Contracts - three completed and three active (amount shown are funds received in 2010, additional funds will be received this year for some studies)
Completed:

2009 - Boehringer Ingelheim sponsored research grant – A Randomized, Double-Blind

2010 - Placebo-Controlled Parallel Group Study to Investigate the Safety and Efficacy of Two Doses of Tiotropium Bromide (2.5 μg and 5 μg) Administered Once Daily via the Respimat® Device for 12 Weeks in Patients with Cystic Fibrosis Center PI: James Royall, M.D. Amount: $35,076

2009 - Bayer Healthcare sponsored research grant – Randomized, Double-Blind, Placebo

2010 - Controlled, Multi-Center Study to Evaluate the Safety and Efficacy of Inhaled Ciprofloxacin Compared to Placebo in subjects with Cystic Fibrosis Center PI: James Royall, M.D. - Amount: $2,447

2009 - Pharmaxis sponsored research grant – Long-Term Administration of Inhaled

2010 - Mannitol in Cystic Fibrosis – A Safety and Efficacy Study. Center PI: James Royall, M.D. - Amount: $41,533

[$8,589 received for a study completed in 2009]

Active

2009 - Vertex Pharmaceuticals sponsored research grant - A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Safety and Efficacy of VX-770 in Subjects Aged 12 Years and Older With Cystic Fibrosis who are Homozygous for the F508del-CFTR Mutation. Center PI: James Royall, M.D. - Amount: $33,145

2010 - MPEX Pharmaceuticals sponsored research grant - A Phase 3, Multi-Center, Multinational, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety, Efficacy, and Tolerability of MP-376 Inhalation Solution (Aeroquin) Given to Stable Cystic Fibrosis Patients. Center PI: James Royall, M.D. Amount: Just started

2010 - Abbott Products sponsored research grant - A 10-Year

Number of Support Personnel - 11.2 FTE

Section employees
- Staff Assistant
- Administrative Assistant I
- Clinical Nurse Specialist and CF Center Coordinator
- CF Center Clinical Research Coordinator
- Research Assistant II

OUCP employees (with partial salary support from section)
- Patient Service Representative
- Clinic Nurse (LPN)
- Clinic Nurse (LPN) - currently not filled
- Respiratory Therapist
- Medical Assistant
- Nutritionist (1.0 FTE)

Hospital employee (with no salary support from section)
- CF Center Social Worker
- (about 0.2 FTE for this activity)
**PEDIATRIC PULMONOLOGY**

Observational Study to Prospectively Evaluate the Risk of Transmission of Selected Porcine Viruses in Patients Taking Creon® (pancrelipase) Delayed-Release Capsules. Center PI: James Royall, M.D. Amount: Just started

**Number of Peer Reviewed Publications - 1**


**Patient Encounters**
(data is for 7/09 through 6/10)

Outpatient Visits - 3736
Total: New - 592
Return - 2634

Cystic Fibrosis: New - 17
  Return - 580
  Pulmonary: New - 575
  Return - 2054

Additional outpatient visits not included in numbers above:
  Tulsa CF Center - ≈ 360
  Children’s Center in Bethany, OK - ≈ 150

Inpatient Visits
  Consults - 91
  Admits - 129
  Daily Care - 1,233

Sleep Study Interpretation = number not available
Pediatric Pulmonary Function Testing Laboratory
Procedures - 2131
Bronchoscopy - 51

**HIGHLIGHTS OF 2010**

2010 was a sound financial year. Funds from clinical research and sleep study interpretation have helped the section’s financial stability.

We continue to recruit for our fourth faculty member. This is the second year of this effort.

Ongoing participation in pediatric sleep medicine by Dr. Dbouk, on the path to being able to take Sleep Medicine Boards in the fall of this year.

We have reorganized our clinic service to have all day clinics and (virtually) all day inpatient attending and expanded clinic staff to two LPNs. We envision one LPN being more closely linked to Dr. Mehdi and the other with Dr. Dbouk. We hope that this will help with clinic flow and decrease patient wait times.

We have struggled with the CF nutritionist position for a while. This year we have changed to have the CF/pulmonology nutritionist as a 1.0 FTE position. It is possible the nutritionist could be available for patient consultations outside of our section.
**Training**

An outside consultant came here and gave detailed education on performance of pulmonary function studies to respiratory therapy and other clinic staff.

CF Center nutritionist participated in mentoring program.

TDN Center research assistant participated in mentoring program along a path to being a Research Coordinator.

**Grants, Contracts and Industry Agreements**

Consultation agreement for Dr. Royall with The Children’s Center in Bethany - $500 per visit (weekly)

See Above for listing of clinical research protocols.

Industry Contracts - None

Funded Collaborative Efforts - None

**Publications**


**National Committees**

Dr. Royall - member, Publications and Presentations Committee, CF Foundation Therapeutics Developments Network

Dr. Royall - member, Newborn Screening Interest Group, CF Foundations

Dr. Royall - member, Chronic Therapies in Pulmonary Care Guidelines Committee, CF Foundation
PEDIATRIC RHEUMATOLOGY

FACULTY

JAMES N. JARVIS, M.D.
Section Chief,
CMRI Arthritis Foundation
Oklahoma Chapter Chair

KATHLEEN O’NEIL, M.D

ANDREA SESTAK, M.D./Ph.D.
PEDiatric RheumatoLogy

The pediatric rheumatology section has maintained its research focus while continuing robust clinical activities throughout the year. The section consists of three full-time pediatric rheumatologists, one 1.0 FTE nurse specialist, three full-time research assistants and one senior-level research associate (Dr. Kaiyu Jiang). A full-time research nurse/coordinator administers the section’s research activities.

The primary mission of the section remains the provision of clinical care to children with rheumatic disease. We remain one of the largest pediatric rheumatology centers on the Great Plains and a statewide resource for these relatively uncommon disorders. Expanding involvement in national clinical studies has increased the section’s national visibility and reputation. The “home” for the section is divided between the 1,500-square-foot laboratory space in the Basic Sciences Education Bldg on the Health Sciences Center campus and the Subspecialty Clinic on the fifth floor of the OU Children’s Physicians building on 12th Street. Outreach clinics are conducted at the W.W. Hastings Indian Hospital in Tahlequah on a monthly basis.

Highlights of Annual Year

The year’s highlights include the recent hiring of Dr. Andrea Sestak. Dr. Sestak is a native Oklahoman who has done the majority of her training in St. Louis (pediatric residency at St. Louis Children’s Hospital) and Dallas (pediatric rheumatology fellow at University of Texas Dallas Southwestern). She was an investigator at the Oklahoma Medical Research Foundation before joining the Department of Pediatrics. She will maintain a research focus here.

This has been a very good year for section research funding. In September 2010, Dr. O’Neil was notified that her project, “Effect of Pubertal Hormone Changes on Systemic Lupus Erythematosus,” will be funded by the Lupus Foundation of America. In December 2009, Dr. Jarvis was notified that his grant, “Genome-Wide Mapping of Hepatocyte Nuclear Factor 4a in Human T Cells,” was approved for funding through the local McBride Foundation. A second application, “Epigenetic Alterations in JIA Neutrophils,” was approved for funding through the local McBride Foundation.

Section Profile

Number of Faculty - 3

Number of Fellows

1. Clinical - None
2. Research - Christy Koelsch is a postdoctoral fellow who works on a collaborative project involving Dr. Jonathan Wren at the Oklahoma Medical Research Foundation.

Number of Students - Ashton Glover, a Native American undergraduate student is supported for part-time research work under the aegis of Dr. Jarvis’s NIH grant. R. William Thompson and Justin Westphalen, received American College of Rheumatology Research and Education Foundation Medical Student Research Awards for summer research in pediatric rheumatology. Eric Lee, MS1, also worked in Dr. O’Neil’s laboratory during the summer of 2010.

Photo by TaylorMade Photography

We have three full-time faculty. Dr. Andrea Sestak, M.D./Ph.D. joined our section in July. Efforts are beginning to recruit a fourth faculty member who would start in July, 2011.
in December, 2010 and will start in early 2011. Supplementary funding to Dr. Jarvis’s current NIH grant will bring in an additional $253,112 in research funding this calendar year. A new NIH-funded project, “Microarray-Based Biomarkers in Juvenile Idiopathic Arthritis,” will be funded starting Jan. 1, 2011.

Section members continue to hold important leadership positions on the national and international stage. Dr. Jarvis serves as chair of the American Academy of Pediatrics Section on Rheumatology Executive Committee and is a full member of the National Institute of Health’s Pregnancy and Neonatology Study Section.

Dr. O’Neil chairs the U.S. Food and Drug Administration’s Arthritis Advisory Committee. In addition, she serves the American College of Rheumatology, the premier international rheumatology academic society, as a member of the ACR Annual Meeting Planning Committee. She also is the pediatric rheumatology representative on the Audiovisual Aids Committee, which established and maintains the college’s educational image bank. This collection, which contains more than 1,500 captioned images, was launched online this year (see http://www.rheumatology.org/education/resources/rib.asp). She was honored as an ACR-Research and Education Foundation/Amgen Pediatric Rheumatology Visiting Professor, visiting the Texas Tech University Department of Pediatrics in Amarillo, Texas in October 2010.

Summers continue to be a particularly vital time in the section’s activities, with research students from both the medical school and nearby undergraduate colleges actively involved in section clinical and research activities. Summer 2010 brought two medical students. Medical students working in the section continue to be funded through such competitive programs as the American College of Rheumatology Summer Research Preceptorships.

Ashton Glover, an undergraduate at Oklahoma City University, is funded on an NIH Workforce Diversity supplement to work with Dr. Jarvis is the area of epigenetics of rheumatic diseases, with a particular focus on Native American patients.

**TRAINING**

A pediatric resident, Dr. Nisha Singh, received a travel grant to attend the American College of Rheumatology Annual Meeting in Atlanta in November 2010, where she was mentored by Dr. O’Neil.

**GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS** (include annual direct/project period direct)

<table>
<thead>
<tr>
<th>Start Date</th>
<th>End Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/30/09</td>
<td>09/29/11</td>
<td>Dynamics of Therapeutic Response Within the TREAT Trial R01-A1084200. James N. Jarvis, P.I.; National Institutes of Health; $200,000/year direct costs</td>
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<tr>
<td>01/01/2011</td>
<td>12/31/2016</td>
<td>Microarray-Based Biomarkers in Juvenile Idiopathic Arthritis. 1R01AR060604-NIH/NIAMS. James N. Jarvis, P.I. $250,000 /year direct costs.</td>
</tr>
<tr>
<td>01/01/10</td>
<td>12/31/2012</td>
<td>Genome-Wide Mapping of Hepatocyte Nuclear Factor 4a in Human T Cells. James N. Jarvis, P.I.; McBride Foundation; $25,000/year direct costs.</td>
</tr>
</tbody>
</table>
09/01/2010 - 08/31/2011 – Workforce Diversity Supplement to *Dynamics of Therapeutic Response Within the TREAT Trial*; R01-AI084200. James N. Jarvis, P.I.; National Institutes of Health.

09/01/2010 - 08/31/2011 – Administrative supplement to 1R01AI084200, *Dynamics of Therapeutic Response Within the TREAT Trial*. James N. Jarvis, P.I.; National Institutes of Health. $253,112 direct costs.


01/01/2011 - 12/31/2013 - *Effect of Pubertal Hormone Changes on Systemic Lupus Erythematosus* - Kathleen M. O’Neil, P.I. Lupus Foundation of America. $60,000 annual direct costs.

**Pending**


**INDUSTRY CONTRACTS**

O’Neil, KM, Site PI (F.deBenedetti, PI) 2008-2012 Roche Pharmaceuticals A 12 - Week Randomized, Double Blind, Placebo-Controlled Parallel Group, 2-Arm Study to Evaluate the Efficacy and Safety of Tocilizumab in Patients with Active Systemic Juvenile Idiopathic Arthritis (SjIA): With a 52-WeekSingle Arm Open-Label Extension to Examine the Long Term Use of Tocilizumab 2 percent effort - per patient reimbursement.

**Number of Support Personnel** - One advanced practice nurse (1.0 FTE) supports the section’s clinical activities. In addition, research activities are supported by three research assistants and one full-time research associate. In addition, the Section added a full-time research nurse/research coordinator in September 2009.

**Annual Total Grant Support**

*Investigator - initiated studies:* $842,112

*Sub-contract research grants:* $50,568

**Annual Total Industry Contracts** (direct): $3,000

**Number of Peer-Reviewed Publications** - four
Funded Collaborative Efforts

O’Neil, KM, Co-Investigator (N. Ilowite, Montefiore, NY, PI) 2007-2011; NIAMS AR70015. “Safety and Effectiveness of Rilonacept for Treating Systemic Juvenile Idiopathic Arthritis in Children and Young Adults.” 2 percent effort

O’Neil, KM, Site PI (C. Wallace, U. Wash, PI) 2009-2011; Follow Up of Subjects from the Trial of Early Aggressive Therapy of Juvenile Idiopathic Arthritis (TREAT JIA). Amgen Pharmaceuticals 2 percent effort

O’Neil, KM, Site PI (L. Schanberg, Duke Univ., PI) 2010-2012; CARRA-net Registry; NIH/NIAMS 1RC2 AR058934-01; 5 percent effort

O’Neil, KM, Site PI (A. Clarke and S. Bernatsky, McGill Univ., PIs); 2009-2011; immune Suppression or Stimulation; Arthritis Society, Canada and NIAMS (US) R03CA128052; 1 percent effort, $5000

Publications

Peer-reviewed original observations


Invited reviews

Jarvis JN, Frank MB, Functional genomics and rheumatoid arthritis: where have we been and where should we go? Genome Med 2010; 244.


Book chapters


**NATIONAL COMMITTEES**
(members, officers, committee members, etc.)

**James N. Jarvis**
National Institutes of Health, Pregnancy and Neonatology Study Section; Chair: American Academy of Pediatrics Section on Rheumatology Executive Committee; Children’s Arthritis and Rheumatology Research Alliance (CARRA) Juvenile Rheumatoid Arthritis committee; CARRA Technology and Translational Research Committee (vice-chair); American Academy of Pediatrics Committee on Native American Child Health Recruitment and Retention Subcommittee; American Academy of Pediatrics Native American Children Health Special Interest Group Steering Committee. Editorial Board: BMC Medical Genomics.

**Kathleen M. O’Neil**
Chairman, U.S. Food and Drug Administration Arthritis Advisory Committee; American College of Rheumatology (ACR) Annual Meeting Planning Committee; ACR Audiovisual Aids Subcommittee of the Committee on Education; Childhood Arthritis and Rheumatology Research Alliance (CARRA); CARRA Vasculitis, Scleroderma and Autoinflammatory Diseases Committee; CARRA Systemic Lupus Erythematosus Committee; Pediatric Rheumatology European Society (PReS) Working Group on Pediatric Vasculitis, PReS Working Group on Pediatric Scleroderma; Pediatric Rheumatology Collaborative Study Group Site PI; Editorial Board, Pediatric Rheumatology (open access journal) Site PI for the Autoimmunity Center of Excellence pediatric committee.

**Patient Encounters**

1. **Outpatient Visits - The Rheumatology section had 253 new-patient visits last year, a 36 percent increase from the previous year. In addition, we had 1,123 return visits, a 30 percent increase from the previous calendar year. We performed 132 joint injection procedures, a 60 percent increase from the previous year. Overall, these numbers reflect the growing number of children with chronic, inflammatory diseases cared for by our section and the higher disease acuity/severity of those patients. While it is unlikely that we will sustain yearly growth rates of 20-30 percent, we have the capacity to continue at a 7-10 percent growth rate for the next 2-3 years.**

2. **Inpatient Visits - N/A.**
We are almost entirely an outpatient specialty.
Hospitalist Program

Faculty

Shannon L. Kaneaster, M.D., Assistant Professor
Jennifer Baker, M.D., Clinical Assistant Professor
Kathryn Cook, M.D., Clinical Assistant Professor
Curtis Knoles, M.D., Clinical Assistant Professor
HOSPITALIST PROGRAM

The Hospitalist Program was started in July 2006 and has grown steadily over the past four years. In 2006, we employed two full-time pediatric hospitalists. This was increased to three full-time physicians in 2007, and we added a fourth pediatrician in July of 2009. The program’s purpose is to provide coordinated inpatient care for our pediatric patients who see private pediatricians in the Oklahoma City area, improve communication with the primary care doctor and, at the same time, relieve some of the burden from the resident/attending teams. The hospitalists communicate directly with the primary care physicians regarding admission and ongoing needs of the patients upon discharge. The hospitalists admitted over 450 patients in their first year, and are on course to have cared for more than 1,200 patients this fiscal year.

Inpatient Teaching

The hospitalists are involved in teaching residents about their patients during daily check-out and for any patients with interesting cases. A one-month rotation on the hospitalist team is available for sub-internship medical students and residents.

Patient Encounters

The hospitalists see each patient at least twice daily, and frequently visits are more frequent than that, depending on the patient’s needs and acuity. The initial encounter is 30 to 60 minutes on average, also depending on the complexity of the patient. Morning rounds typically involve a 10- to 15-minute visit with a family, with a brief visit later in the day. The hospitalists communicate frequently with the patients’ primary care doctors to help arrange follow up and preserve continuity of care. The hospitalist team currently cares for an average of 100-110 patients per month. Average daily census for December 2009 - November 2010 is 11.

SECTION PROFILE

Number of Faculty - four
Staff
Approximately 25 percent FTE administrative support is provided by Darlene Wrice.
PEDIATRIC RESIDENCY PROGRAM

FACULTY  Program Director:  
CASSEY HESTER, M.D.

Associate Program Directors:  
JILL WARREN, M.D.
MONIQUE NAIKHE, M.D.
PEDiatric residency program

HighLights of anNUal year

Ward team capacity expansion:
We increased the third ward team “Purple Team” that currently runs November to March from 10 patients up to 15, increasing total general pediatric ward capacity on the resident teams by 9 percent in the winter months.

Board study/education rotation:
We instituted a one-month rotation in the third year consisting of board study and teaching to medical students. This rotation is overseen by Dr. Ferguson for the teaching portion and the pediatric chiefs for the board-study portion. Residents take pre- and post-mock board exams as part of the rotation. The pre-assessment is utilized along with data from the third year’s in-service score to tailor a study plan for boards and for the month.

New program director:
Dr. Casey Hester was hired as the program director in November of 2010. Dr. Jill Warren remains as an associate program director, in charge of recruitment and education. Dr. Monique Naifeh will be an additional associate program director, serving as the new director of scholarship and overseeing the residents’ scholarly activities.

Mentorship program:
The mentorship program is being re-structured and re-vitalized. Dr. Alix Darden, director of faculty development, assists Dr. Hester with the mentor program. She and Dr. Hester held a mentor meeting in December 2010, laying the groundwork and outlining the initial plan for formalization of the mentorship process. The resident mentor will be expected to assist with revision of semi-annual goals as well as assist with a scholarly project.

Site visit:
The residency program had an Residency Review Committee site review Aug. 31, 2010. The previous site visit was in 2007. Results from this site visit are pending and are expected in the Spring of 2011.

section profile

Number of faculty - program
director: Casey Hester, M.D.
(0.75 FTE)
Associate program directors:
Jill Warren, M.D. (0.25 FTE)
Monique Naifeh, M.D. (0.25 FTE)

Number of residents - 42
categorical pediatric residents
(12 PL-3s, 14 PL-2s, and 16 PL-1s)
11 combined internal medicine/
pediatric residents (3 MP-4s, 2 MP-3s,
3 MP-2s, and 3 MP-1s)

Current residents and
medical schools:
Ernestina Belt: Baylor
Rajroop Bhullar: Medical University of
the Americas (Nevis, West Indies)
Allyson Black: University of Oklahoma
Gina Bui: University of Oklahoma
Lauren Chastain: University of Oklahoma
Scott Chowning: Johns Hopkins
Erin Corbin: University of Oklahoma
Jared Cordell: University of Oklahoma
Lori Crow: University of Oklahoma
Jasmine Dao: University of Texas at San
Antonio
Paul Dasari: Gandhi Medical College
(India)
Shaheen Durrani: St. George’s
University (Grenada, West Indies)
Batoul Eamin: University of Gezira
(Sudan)
Erica Faulconer: University of
Oklahoma
Amy Gumiuliuskas: University of
Oklahoma
Adam Hanna: University of Oklahoma
FORMATION OF RESIDENT COUNCIL

The Pediatric Resident Council was formed as an advisory board to the program directors. The council is composed of peer-elected members from each class. The council solicits feedback from the residents, meets once per month and then reports resident concerns and suggestions to the program director.

RECRUITMENT:

We have had a steadily increasing number of U.S. medical school graduates apply to and match in our program. This year we saw a 7 percent increase in the number of U.S. graduates receiving interviews from the previous year.

FUTURE DIRECTION/PLANS:

International Rotation
Advocacy and Limited Resource Medicine Curriculum/Rotation
Behavioral Health Curriculum, resident training in motivational interviewing
Simulation Center
Revision of Evaluation forms
Institution of automatic rotation reminders with goals and objectives and rotation expectations emailed to residents prior to starting a rotation
Journal Club
Mentor program revitalization
Required scholarly activity

<table>
<thead>
<tr>
<th>Current residents and medical schools continued:</th>
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</thead>
<tbody>
<tr>
<td>Amar Joshi: Texas Tech</td>
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<tr>
<td>Netsanet Kassa: Addis Ababa University (Ethiopia)</td>
</tr>
<tr>
<td>Ryan Knapp: University of Oklahoma</td>
</tr>
<tr>
<td>Erin Kreml: Texas A&amp;M</td>
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<tr>
<td>Amanda Linz: University of Arkansas</td>
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<tr>
<td>Samantha Mallory: University of Oklahoma</td>
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<tr>
<td>Jay Malone: University of Oklahoma</td>
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<tr>
<td>Imam Mien: Government Medical College Srinagar (India)</td>
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<tr>
<td>Susha Nair: Medical College Thiruvananthapuram (India)</td>
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<tr>
<td>Minesh Patel: Western University of the Pacific (D.O.)</td>
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<tr>
<td>Rachna Patel: St. George’s University (Grenada, West Indies)</td>
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<tr>
<td>Rupul Patel: St. George’s University (Grenada, West Indies)</td>
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<tr>
<td>Rachit Patil: Dr. P.D.M. Medical College (India)</td>
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<td>John Ruth: St. George’s University (Grenada, West Indies)</td>
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<tr>
<td>Joseph Sadler: American University of the Caribbean (St. Maarten)</td>
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<td>Azif Safarulla: Medical College Thiruvananthapuram (India)</td>
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<td>Hari Priya Shonhum: PSG Institute of Medical Sciences (India)</td>
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<tr>
<td>Fatima Sheikh: St. George’s University (Grenada, West Indies)</td>
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<td>Mehwish Sheikh: Liaquat Medical College (Pakistan)</td>
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<td>Nisha Singh: Government Medical College Nagpur (India)</td>
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<td>Julia Stoltenberg: University of Oklahoma</td>
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<td>David Webb: University of Texas Medical Branch at Galveston</td>
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</tr>
<tr>
<td>David Webb: University of Texas Medical Branch at Galveston</td>
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</tbody>
</table>
Current residents and medical schools continued:
Angela Yaffe: University of Oklahoma
Ashley Yates: University of Oklahoma
Ahmad Bilal: King Edward Medical College (Pakistan)
Brad Burget: University of Oklahoma
Saurabh Dasgupta: Kasturba Medical College Manipal (India)
Scott Fetty: Medical University of the Americas (Nevis, West Indies)
Justin Fields: University of Texas Medical Branch at Galveston
Joe Ghata: University of Oklahoma
Mandy Hayes: University of Oklahoma
Adrienne Kesinger: University of Oklahoma
Angeline Opina: Loma Linda
Kent Stubber: Ross University (Dominica, West Indies)
Krystal Voight: University of Oklahoma

We have had no resident attrition in the past year.

Number of Support Personnel:
1. Cheri Stout-Robinson (one FTE)
2. Cathy Compton (one FTE)
3. Shirley Rooms (one FTE)

Patient Encounters:
Outpatient Visits Our general pediatric clinics totaled 10,374 outpatient visits from 7/1/2009 - 6/30/2010. Residents participate in both the general pediatrics clinic and continuity clinic with the “Sooner Pediatrics” Clinic.
Inpatient Visits The total number of medical general pediatric patient admissions during the 2009-2010 academic year was 5,808. This includes NICU and PICU medical admissions. On average, each pediatric resident was responsible for five to six general pediatric patients per day while on the general pediatric inpatient service.

Duty-hour restrictions/overall schedule revision
Focus on professionalism
Handover formalization

SECTION OVERVIEW/TRAINING
Rotation Schedule by Training Year:

PL1:
General Pediatric Wards: three months
Hem/Onc Wards: one month
NICU: one month
PICU: one month
Newborn Nursery (including all deliveries): one month
ED: one month
Outpatient Pediatric Clinic: one month
“Peds Plus” (Outpatient Pediatric Clinic): one month
Adolescent Clinic: one month
Elective: one month

PL-2:
General Pediatric Wards: two months
Hem/Onc Wards: one month
Outpatient Selective (GI/Pulmonology): one month
Inpatient Selective (GI/Pulmonology): one month
NICU: one month
PICU: one month
Newborn Nursery: one month
ED: one month
Developmental/Behavioral Pediatrics: one month
Elective: two months

PL-3:
General Pediatric Wards: two months
NICU: one month
PICU: one month
Newborn Nursery: one month
Outpatient Selective (Cardiology/Nephrology): one month
Inpatient Selective (Cardiology/Nephrology): one month
PEDIATRIC RESIDENCY PROGRAM

Outpatient Pediatric Clinic: one month
ED: two months
Board Study/Teaching: one month
Elective: one month

Didactics:
Core Conferences: two to three days per week; follows the content outline for the general pediatric board exam provided by the ABP (covered over a three year period)

Other Conferences:
Morning Report (presented by residents)
Grand Rounds (weekly)
Professionalism (every two months)
Morbidity and Mortality (every two months)
Ethics (monthly)
Chairman’s conference (every three months)
Board Review (monthly, led by a chief and/or third year resident on the Board Study/Teaching Month)
Residents as Teachers (three-conference series presented annually in the fall)
Cultural Competency (every third month)
Recognizing Fatigue (yearly)

Presentations:
Evidence Based Medicine (PL-2s)
Selective Presentations (Gastroenterology and Pulmonology as a PL-2, Cardiology and Nephrology as a PL-3)

Other Scholarly Activity:
Quality Improvement (required at least once in residency)
Research (case presentation, abstract, poster, peer-reviewed Journals)

Graduating Residents 2010:
Ami Bax: Fellowship in Developmental/Behavioral Pediatrics, University of Oklahoma
Laura Haws: Pediatrics Chief Resident
Laura Hunt: Neonatal/Perinatal Medicine Faculty, University of Oklahoma
Kris Lam: Private Practice, Oklahoma City, Okla.
Sara Lewis: Fellowship in Emergency Medicine, University of Oklahoma
Trinity Loveless: Private Practice, Yukon, Okla.
Annelise Ribeiro: Fellowship in Nephrology, University of Texas Southwestern
Lisa Rishel: Private Practice, Salem, Oreg.
Kyle Stewart: General Pediatrics Faculty, University of Oklahoma
Courtney Swartz: Pediatrics Chief Resident
Nadine Rose: Emergency Medicine Faculty, University of Oklahoma
Tim Yates (Prelim): Diagnostic Radiology Residency, Integris Baptist
Stephanie Deleon: General Pediatrics Faculty, University of Oklahoma
Lisa Hoffman: General Pediatrics Faculty, University of Oklahoma
Elisa Davis: General Pediatrics and Internal Medicine Faculty, University of Oklahoma
Branson Kester: Internal Medicine Hospitalist, Norman, Okla.

Current Resident Benefits:
Apple iPod Touch provided to first years with 5 minute Peds Consults downloaded
Harriet Lane and Lexi-comp pediatric drug book
Most recent Complete Edition of the MedStudy Series on the Pediatric Board Review Core Curriculum
Book money: $200 for second and third years
Continuing Medical Education money: $1,500 to attend a meeting in second and third years
Meal allowance for calls
Scrub card: three sets of scrubs at any given time
two white lab coats embroidered with name
American Academy of Pediatrics membership, which includes Red Book and Pedialink questions
Malpractice and liability insurance
three weeks of vacation/year + six days on holiday schedule
five days of CME/year
Maternity/Paternity leave and leave of absence policy
House Staff lounge and library with computers and
a refrigerator stocked with food, snacks, sodas and bottled water
two day Intern Retreat each Fall
PALS and NALS
Fleece jackets for first years
Call duffle bag for first years
Opportunities for internal moonlighting for upper-levels

**Physical Premises:**
Residency offices moved to A2, OU Children’s Physicians Building fall 2010
Resident lounge on Nicholson Tower, Ninth floor
Resident library on Nicholson Tower, eighth floor
Resident call rooms equipped with computers
Educational space remains in the Cousson’s Conference Center for noon conference and the
doctor’s dining room for morning report

**Assessment of Resident and Graduate Performance:**
Our program evaluates residents using a five-point scale from unsatisfactory to beginning to competent. It is expected that as a resident increases in experience from the PL1 to PL3 year, the scores on their evaluations will go up accordingly. Review of aggregate evaluations by class reveals a high proportion of 4s and 5s for the PL3 (graduating) class, indicating that they are viewed as competent in the domains established by the ACGME. Review of the evaluations of the PL2 and PL1 classes reveals a progression of competence over the course of their training. We plan to revise the evaluation forms in spring 2011 for faculty and residents utilizing a scale (1-10) of Below Expectations, Meeting Expectations, or Exceeding Expectations for training level for each of the six competencies.

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### Board Pass Rate for the Last Six Years (at or above the national pass rate):

<table>
<thead>
<tr>
<th>Year</th>
<th>1st time takers</th>
<th># passing</th>
<th>% passing</th>
<th>% passing nationally</th>
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</thead>
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<td>2009</td>
<td>10</td>
<td>8</td>
<td>80%</td>
<td>79%</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>7</td>
<td>88%</td>
<td>78%</td>
</tr>
<tr>
<td>2007</td>
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<td>11</td>
<td>85%</td>
<td>77%</td>
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<tr>
<td>2006</td>
<td>7</td>
<td>7</td>
<td>100%</td>
<td>76%</td>
</tr>
<tr>
<td>2005</td>
<td>8</td>
<td>7</td>
<td>88%</td>
<td>77%</td>
</tr>
<tr>
<td>2004</td>
<td>10</td>
<td>8</td>
<td>80%</td>
<td>79%</td>
</tr>
</tbody>
</table>
**PEDIATRIC RESIDENCY PROGRAM**

**Duty Hours:**
There has been an improvement in the number of duty-hour violations over the past several months. Emphasis has been placed on no longer violating duty hours by residents being aware of their hours, striving for efficiency and being proactive in getting post-call colleagues relieved of clinical duties before the 24+6 hour mark (our most common violation). With the implementation of even more restricted duty hours in July 2011 by the ACGME (interns are limited to 16-hour shifts, and upper levels may only work 24+4 hours in a row), the program will be altering our year-long rotation schedule for each training level to accommodate the new hour limitations and more appropriately balance service and education.

**RESIDENT PRESENTATIONS:**


2. **Nisha Singh**, Kristie Williams, Peter N. Johnson, Tracy M. Hagemann, Susana Chavez-Bueno. Current recommended Vancomycin dose does not provide adequate plasma concentrations in children. Poster, Pediatric Academic Societies meeting, May 2010

3. **Mehwish Sheikh**, Acquired pulmonary vein stenosis in a patient with Trisomy 21 and severe pulmonary hypertension. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010

4. **Paul Dasari**, Abnormal Developmental Screens and Patient Characteristics. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010

5. **Azif Safarulla**, A Case of Diabetes Insipidus due to vasopressin dysregulation. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010

6. Dannaway D, **Safarulla A**, Noori S. Does Duration of Platelet Transfusion Affect the Degree of Post-Transfusion Platelet Rise? Pediatric Academic Societies Conference, 2010


8. **Ami Bax**. The Relationship between SES and ADHD Diagnosis and Treatment in a Community Based Sample of Elementary School Age Children. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010

9. Adrienne Kessinger, **John Ruth**, Pott’s Puffy Tumor in a 5 year old male. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010


11. **Aija Wasti**. Evaluation of the Effect of UBE2Q2 Inactivation on Xenograft Tumor Growth. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010

12. **Courtney Swartz**. Mercury Poisoning: A Treatable Cause of Resistant Hypertension in a 17 Month Old Toddler. OU Health Sciences Center Dept. of Pediatrics Research Day, April 23rd 2010


COMMITTEES

All OU Pediatric Residents are members of the American Academy of Pediatrics and the Oklahoma Chapter of the AAP

Justin Fields
Resident Council Representative and Member, OU Health Sciences Center Ethics Committee
OU Health Sciences Center Campus Resident Council Representative

Paul Dasari
OU Health Sciences Center Campus Resident Council Representative

John Ruth
PGY-3 Representative of the OU Pediatrics Resident Council, 2010-2011
EPOM/Meditech Resident Liaison
Liaison between residents and EPOM/Meditech administration to foster improvement on continuing development of electronic medical records

Erin Corbin
PGY-3 Representative of the OU Pediatrics Resident Council, 2010-2011
OU Health Sciences Center Campus Resident Council representative

Ashley Yates
PGY-2 Representative of the OU Pediatrics Resident Council, 2010-2011
Vice President of the Resident Council
OU Health Sciences Center Campus Resident Council Representative
Pediatrics Zitelli Club Moderator
EPOM / Meditech Resident Liaison
Liaison between residents and EPOM/Meditech administration to foster improvement on continuing development of electronic medical records

Angela Yaffe
PGY-2 Representative of the OU Pediatrics Resident Council, 2010-2011
Assistant district coordinator for the AAP Section on Medical Students, Residents and Fellowship Trainees, District VII (Arkansas, Louisiana, Mississippi, Oklahoma, Texas)
OU Pediatrics resident representative to the AAP National Conference
**PEDiatric Residency Program**

**Jay Malone**
PGY-2 representative of the OU Pediatrics Resident Council, 2010-2011
President and founder of the Resident Council
OU Health Sciences Center Campus Resident Council representative and member, OU Health Sciences Center Ethics Committee
Member of the board of directors, Oklahoma Chapter of the American Academy of Pediatrics

**Amanda Linz**
PGY-2 Representative of the OU Pediatrics Resident Council, 2010-2011
Collaborator on the development of the Pediatrics Residency Advocacy curriculum
Pediatrics Representative in the OU Health Sciences Center GMEC Review Meeting, 2010

**Jared Cordell**
PGY-1 Representative of the OU Pediatrics Resident Council, 2010-2011

**Julia Stoltenberg**
PGY-1 Representative of the OU Pediatrics Resident Council, 2010-2011
Secretary of the Resident Council

**Rupal Patel**
District Coordinator for the AAP Section on Medical Students, Residents and Fellowship Trainees, District VII (Arkansas, Louisiana, Mississippi, Oklahoma, Texas)
OU Pediatrics Resident Representative to the AAP National Conference
RESEARCH IN THE DEPARTMENT OF PEDIATRICS

Research infrastructure in the department includes support services to faculty in the form of a research program central office staffed with administrative, regulatory and nursing personnel with resources and expertise in grant and contract management, IRB submission and clinical trials organization data. Within the department there also are biostatistics and informatics experts available to help pediatric researchers plan, organize and analyze data sets and study results.

The Department of Pediatrics currently ranks high in National Institutes of Health grant support among comparative pediatric departments. Research efforts within the department include leading basic science and clinical research in many areas affecting the health and well-being of children from birth to adolescence. The broad scope of the research efforts of our faculty are reflected in the following listings:

FEDERALLY FUNDED AWARDS

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Name</th>
<th>Sponsor</th>
<th>Dollar Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balachova, T.</td>
<td>Preventing FAS/ARND in Russia</td>
<td>NIAAA/FIC</td>
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<tr>
<td>Bonner, B.</td>
<td>Evidence Based Treatment for Children and Adolescents w/Sexual Behavior Problems</td>
<td>SAMSA</td>
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<td>Chaffin, M.</td>
<td>Technology to Augment Effectiveness of Parenting Programs in Child Maltreatment</td>
<td>CDC</td>
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<tr>
<td>Chaffin, M.</td>
<td>Cascading Diffusion of an Evidence-Based Child Maltreatment Intervention</td>
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<td>Dynamic Adaptation to Implement as Evidence-Based Child Maltreatment Intervention</td>
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<td>Hecht, D.</td>
<td>Developing Multi-Component Evidenced Based Practice</td>
<td>NIH</td>
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<tr>
<td>Silovsky, J.</td>
<td>Youth w/Sexual Behavior Problems Technical Assistance</td>
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**FEDERALLY FUNDED AWARDS continued**

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<tr>
<td><strong>Developmental and Behavioral Pediatrics continued</strong></td>
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<tr>
<td>Silovsky, J.</td>
<td>Evidence-Based Child Maltreatment Prevention for High Risk Families: Expanding to Latino Communities, Enhancing Family Violence Prevention, and Sustaining Prevention Programs</td>
<td>ACYF/HRSA</td>
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<td>Wolraich, M.</td>
<td>Support Network School Teams in the area of ASD</td>
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<td><strong>Diabetes/Endocrinology</strong></td>
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<td>Copeland, K.</td>
<td>TrialNet: Natural History Study of the Development of Type 1 Diabetes</td>
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<td>Copeland, K.</td>
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<td>Chernausek, S.</td>
<td>Prenatal Conditions and the Pathway to Obesity and Diabetes in Children</td>
<td>NIH/NIDDK</td>
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<td>Gardner, A.</td>
<td>Home-based vs. Supervised Exercise for Claudicants</td>
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<td>Li, S.</td>
<td>Computer-aided Chromosome Imaging Technique for Cancer Diagnosis</td>
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<td>Li, S.</td>
<td>Automated FISH Imaging and Analysis for Screening Cervical Cancer</td>
<td>NIH</td>
<td>$2,369,521</td>
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<td>Mulvihill, J.</td>
<td>Mentoring Diabetes Research in Oklahoma</td>
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## FEDERALLY FUNDED AWARDS continued

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<td>NIH/St Jude Research</td>
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<td>Sanghera, D.</td>
<td>Genome-Wide Association Scan to Identify Risk Genes for Type 2 Diabetes in Asian Indian Sikhs</td>
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<td>Sanghera, D.</td>
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<td>Darden, P.</td>
<td>Teaching Vaccine Safety through Teaching Immunization Delivery and Evaluation (TIDE) Online Curriculum</td>
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<td>Communication Intervention for Adolescent Immunizations: Cluster Randomized Trial</td>
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<td>Pediatric Primary Care Residency Training in Behavioral Health</td>
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<td>National PRAMS Data: Prevalence and Risk Factors for Postpartum Depression</td>
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| **G.I.**                           | Role of Mucin-Type O-Glycans of Intestinal Inflammation                       | NIH thru OMRF            | $20,720       |

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<td><strong>Rheumatology</strong></td>
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<td>Safety and Effectiveness of Rilonacept for Treating Systemic Juvenile Idiopathic Arthritis in Children and Young Adults</td>
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<td>Follow-Up of Subjects from Trial of Early Aggressive Therapy in Juvenile Idiopathic Arthritis (TREAT-JIA)</td>
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<td>Gene Expression Microarray Changes and Mechanisms of Lupus Flare During Puberty</td>
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## INDUSTRY AND FOUNDATION AWARDS

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<td>Sperrazza, C.</td>
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<td>AGA Medical Corp</td>
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<td>Ward, K.</td>
<td>CryoValve SG Pulmonary Valve Post-Clearance Study</td>
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<td><strong>Developmental and Behavioral Pediatrics</strong></td>
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<td>Lock, T.</td>
<td>Efficacy of Atomoxetine in Treating the Inattention, Impulsivity and Hyperactivity in Children with Fetal Alcohol Syndrome or Effects</td>
<td>Eli Lilly and Co.</td>
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<td>Long-Term Tolerability and Safety of Atomoxetine in Treating the Inattention, Impulsivity and Hyperactivity in Children w/FAS or Effects</td>
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<td>A Phase III Randomized, Double-Blind Placebo-Controlled Trial of Luminenz-AT TM (CM-AT) in Children with Autism</td>
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<td>Eli Lilly and Co.</td>
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<td>Evaluate the Safety of Leuprolide Acetate in Children with Central Precocious Puberty</td>
<td>Abbott Pharma.</td>
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<td>Fields, D.</td>
<td>Effect of Level of Dietary Protein on Growth and Body Composition in the First Year of Life</td>
<td>Nestle</td>
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<td>Fields, D.</td>
<td>Validation of BODPOD in young Children</td>
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<td>Impact of Breastfeeding and Obesity on Offspring Body Composition and Growth</td>
<td>Mead Johnson</td>
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<td>Assessment of Growth of Infants Fed a 100 percent Whey Extensively Hydrolyzed Formula</td>
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<td>George, M.</td>
<td>Colesevelam Oral Suspension as a Monotherapy in Pediatric Subjects with T2 Diabetes</td>
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<td>Vascular Compliance and Endothelial Function in Children with Obesity and Type 2 Diabetes</td>
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<td>Exercise Mediated Changes in Gene Expression in Peripheral Blood Cells</td>
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<td>Sternlof, S.</td>
<td>Evaluation, Statistical Analysis and Program Support for Schools for Health Lifestyles</td>
<td>Schools for Healthy Lifestyles</td>
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<td>Mulvihill, J.</td>
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<td>Grunow, J.</td>
<td>A Multicenter, Prospective, Long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease.</td>
<td>Centocor Inc.</td>
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<td>Grunow, J.</td>
<td>The Pediatric IBD Network for Research and Improvement</td>
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### Hematology/Oncology

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<td>McNall, R.</td>
<td>A Phase II Study of Valproic Acid and Radiation</td>
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<td>Meyer, W.</td>
<td>South Plains Oncology Consortium (SPOC) Research Studies</td>
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<td>A Multicenter Registry Study of Anti-Rasburicase Antibodies</td>
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<td>Sexauer, C.</td>
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### Infectious Disease

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<td>Chavez-Bueno, S.</td>
<td>An Evaluation of the Safety, Efficacy, and PK of Daptomycin in Ped Pts. with Complicated Skin Infections Caused by Gram-Positive Pathogens</td>
<td>Cubist Pharma Inc.</td>
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<td>Chavez-Bueno, S.</td>
<td>Intravenous Oseltamivir (Tamiflu) in the Treatment of Influenza Infection</td>
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### Neonatology

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<td>Sekar, K.</td>
<td>Potential use of inhaled nitric oxide (iNO) as an adjunct to neonatal resuscitation protocol</td>
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<td>Sekar, K.</td>
<td>The role of adrenal immaturity in the systemic hypotension that fellow ligation of the patent ductus arteriosus (PDA)</td>
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<td>Sekar, K.</td>
<td>The Efficacy of Cardiopulmonary Coupling in Assessing software supp</td>
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### Nephrology

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<td>Turman, M.</td>
<td>Evaluation of the Safety of Vit D Receptor Activators as Determined by Hypercalcemia in CKD Patients on Peritoneal Dialysis</td>
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<td>Turman, M.</td>
<td>Evaluation of PK, Safety and Efficacy of Paricalcitol Capsules in Decreasing Serum Intact Parathyroid Hormone Levels in Ped Pts. with Moderate to Severe CKD</td>
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### Pulmonology

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<td>VX-770 in Subjects Aged 12/ Older w/ CF F508del-CFTR Mutation –</td>
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<td>Jarvis, J.</td>
<td>Genome-Wide Mapping of Hepatocyte Nuclear Factor 4a in Human T Cells</td>
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<td>Jarvis, J.</td>
<td>Epigenetic Alterations in JIA Neutrophils</td>
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<td>O’Neil, K.</td>
<td>A study to evaluate the efficacy and safety of tocilizumab in patients with active sJIA.</td>
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<td>O’Neil, K.</td>
<td>Effect of Pubertal Hormone Changes on Systemic Lupu Erythematosus</td>
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### STATE FUNDED AWARDS

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<td>Prevention of Child Maltreatment in High Risk Rural and Urban Communities</td>
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<td>Exercise for Women with Peripheral Arterial Disease</td>
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<td>Prevention Goals for Community Outreach Efforts</td>
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<td>Gillaspy, S.</td>
<td>Further Development and Testing of an Interactive Web-based Program to Facilitate Readiness and Motivation for Smoking Cessation.</td>
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**Pediatric Hospitalist Program**

- 2010-2011
- 1377 Discharges
- 93 of 110 pediatricians referred patients

**Grants and Contracts Sources**

- Non-Fed
- Fed

**OU Foundation Fund Balance**

**Charges**
WELCOMING CHILDREN TO OUR NEW FACILITIES
The mission of the University of Oklahoma Health Sciences Center, as a comprehensive academic health center, is to educate students at the professional, graduate, and undergraduate levels to become highly qualified health services practitioners, educators, and research scientists; to conduct research and creative activities for the advancement of knowledge through teaching and development of skills; and to provide continuing education, public service, and clinical care of exemplary quality.

The College of Medicine is the largest component of the University of Oklahoma Health Sciences Center and is at the center of OU Medicine. OU Medicine is the partnership among the University of Oklahoma College of Medicine, the OU Medical Center including The Children’s Hospital, OU Physicians and the University Hospitals Authority and Trust and the patient care, medical education and research programs and services they provide. Our mission is leading health care—in education, research and patient care. Our goals are uncompromising quality, exceptional service, innovative education, advancing knowledge, and institutional strength.

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