

Research News

Newsletter of
The University of Kansas Medical Center
Department of Pediatrics



Department of Pediatrics Awards **Two Research Grants**

Each year, the Department of Pediatrics awards two research grants to faculty who are engaging in pilot research work. All grant applications are reviewed by the Research and Scholarship Committee, and the top two applications are selected for funding. Funding is provided by the Children's Miracle Network as part of their larger support of the department. The two grant applications selected this year were:

Danda, C.E. (PI) & Wassom, M.C. (Co-PI). A minimal contact cognitive-behavioral intervention for pediatric functional gastrointestinal disorders: A pilot study of "Gutstrong." Total costs: \$9,963.

Peacock, G. (Co-PI) & Nelson, E. (Co-PI). Implementing the American Academy of Pediatrics Attention-Deficit/Hyperactivity Disorder Diagnostic Guidelines in a School-based Telemedicine Clinic. Total costs: \$9,980.

The first project, a pilot of "Gutstrong," is a CD based intervention to decrease abdominal pain frequency, intensity and duration in children presenting to a GI clinic. The specific hypotheses are: (1) Children in the "Gutstrong" plus standard medical care intervention group will demonstrate decreases in pain frequency, intensity, and duration when compared to their baseline measures and to children in a wait-list control group; and (2) Children in the "Gutstrong" plus standard medical care group will report a greater improvement in quality of life, a lower level of disability, and a lower level of daily negative affect relative to their baseline indices and relative to children in the wait-list control group.

The second project, concerning implementing AAP ADHD guidelines in a telemedicine clinic, has three central aims. These include: (1) To describe characteristics of an ADHD telemedicine clinic and children presenting for evaluation; (2) To evaluate the feasibility of implementing AAP clinical practice guidelines for the evaluation of ADHD in the telemedicine context and to identify barriers and/or facilitators in guideline adherence, including referral back to a medical home, and (3) To assess pediatric residents' perceptions of the ADHD telemedicine clinic.

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Current Pediatric Grants

Barkley, H.W., **Lowry, J., Veal, K.**, Pierce, J.T. 02/01/04 – 01/31/07
"Development of the Region VII Pediatric Environmental Health Specialty Unit at the University of Kansas Medical Center"
AOEC & ATSDR – Total costs: \$128,000/yr

Barlow, S (PI) & **Clark, P (Co-I)** 1/15/02-8/31/06
"Sensorimotor Control of the Human Orofacial System"
NIH-Total Direct Costs - \$76,671

Dileepan, K (PI), **Belmont, J (Co-I)** 2/1/06-1/31/11
"Mast Cell-Induced Inflammation in Vascular Disease"
NIH RO1 HL070101-01 – Total Direct Costs: \$1,250,000

Danda, C.E. (PI) & Wassom, M.C. (Co-PI) 07/01/06-06/30/07
"A minimal contact cognitive-behavioral intervention for pediatric functional gastrointestinal disorders: A pilot study of Gutstrong."
Children's Miracle Network - \$9,963

Davis, A.M. (PI) 04/15/05-04/14/10
"Enhancing Nutrition and Activity of Rural Children"
NIH/NIDDK - Total Direct Costs \$566,721

Davis, K. (PI)
"Connected Kansas Kids: Connecting Schools and Students with Special Health Needs"
Kan-Ed - Total direct costs: \$100,000, plus \$85,000 for year two
** see website at www.connectedkansaskids.com

Davis, K. (PI)
"Distance Learning Presentations for Students"
Kan-Ed – Total direct costs: \$25,000

Ellerbeck, K. (PI), Reese, M. (Co-Investigator) & Jacobson, J. (Co-Investigator) 02/01/05-02/01/07
"Sex Differences in Autism: Potential Role of Oxytocin Signaling"
Cure Autism Now (CAN) Foundation – Total direct costs: \$120,000

Gilmer, L (PI) 7/1/05-6/30/07
"Evaluating Clinical Competency of Ped Res. Cont Clinic"
Children's Miracle Network Total Direct Costs \$9076

Human Subjects Committee Information

Deadline**	Meeting
June 29	July 11
July 14	July 25
July 28	August 8
August 11	August 22
August 31	September 12
September 15	September 26
September 29	October 12

all deadlines are at **noon**

* **Office is G006 Sudler.***

Hours: 8:00 AM - 4:30 PM
For more information, go to
http://www2.kumc.edu/researchcompliance/hs_csubprocess.htm or call 913-588-1240.

Hardy, J. (PI) "Reach out and Read" Francis Family Foundation – Total Direct Costs - \$50,000	6/06-?
Lindsley, C (PI) "Juvenile RH North Short Long Island Jewish Health" Total Direct Costs \$390	7/29/03-12/31/08
Lowry, J (PI) "Poison Control Stablization and Enhance" Poison Control Center – Total Direct Costs \$154,088	9/1/05-8/31/06
Nelson, E. (PI), Davis, K (Co-I) "TeleHelp: A Comprehensive School-based Telemedicine Program for Urgan Youth At-Risk for Depression" Health Care Foundation of Greater Kansas city – Total Project Funding with matching \$197,972	2006-2008
Nelson, E (PI) "Telekidcare Teaching Tool for Cultural Competence" Aetna Foundation Regional Community Health – Total Direct Costs \$40,000	
Peacock, G. (Co-PI) & Nelson, E. (Co-PI) Implementing the American Academy of Pediatrics Attention-Deficity/Hyperactivity Disorder Diagnostic Guidelines in a School-based Telemedicine Clinic. Children's Miracle Network - \$9,980	07/01/06-06/30/07
Rapoff, M. (PI), Belmont, J. (Co-I) "Headstrong Intervention for Recurrent Pediatric Headache" R01, National Institute of Neurological Disorders and Stroke-Total Costs: \$563,090	07/04 – 06/07
Reese, M (PI) "Kansas Institute for Positive Behavioral Support Grant" KAN28535 – Total Direct Costs \$18,374	11/1/05-10/31/06
Steele, R (PI), Davis, A (Co-I) "Effectiveness of a treatment for pediatric obesity" DHHS, (HRSA) R40MXO6631-01-00 Total Costs \$626,846	1/19/06-12/31/09
Trueworthy, Robert (PI) "Children's Oncology Group Chair's Grant" Salary for Data Manager National Childhood Cancer Foundation Total Direct Costs\$44,302	3/1/03-3/28/07
Veal, K.(PI), Lowry, J (Co-I) "A Pilot Study to Evaluate Effects of Exposure to School Bus Diesel Fuel Emissions on Pediatric Respiratory Health" Children's Miracle Network – Total Direct Costs - \$10,000	7/1/05-6/30/07

Current Pediatric Clinical Trials

Casey, J. (PI), Delrosario, G. (Co-PI)

“The Genetics and Neuroendocrinology of Short Stature International Study”
Eli Lilly and Company –

Casey, J. (PI)

“Growth Hormone Study”
Genentech Inc.

Casey, J. (PI)

“Kabi International Growth Study”
Pharmacia Upjohn

Casey, J. (PI)

“Natural History Study Development of Type I Diabetes”
NIH-TrialNet

Ellerbeck K (PI)

“Safety and efficacy of oral human immunoglobulin in the treatment of gastrointestinal dysfunction associated with Autistic Disorder”
Oralgam Corp

Olson, N (PI)

“Allergy Immunology Rheumatology:
Pharmacia Cor

Olson, N (PI)

Abbott Labs

Raghuveer, Talkad (PI)

“Do dietary components influence the severity of oxygen-induced vascular pathology in newborn rat retina”
School of Medicine Bridging Grant

Scheinman, Jon (PI)

“Focal Glomerulosclerosis Trial”
Medical City Dallas Hospital

Shaw, P (PI)

“An Oral Health Program for Kansas”
United Methodist Health Ministry Fund

Recent Pediatric Publications

Hyman PE, Milla PJ, Benninga MA, Davidson GP, Fleisher DF, Tamini J. Childhood functional gastrointestinal disorders: neonate/toddler. *Gastroenterology* 2006; 130: 1519-1526.

Kelly PJ, Sylvia E, Schwartz L, Cobb AK, **Veal K.** Cameras and community health. *J Psychosoc Nurs Ment Health Serv.* 2006 Jun;44(6):31-6.

Rapoff, M.A., McGrath, A.M. & Smith, S. (2006). Adherence to treatment demands. In: R. Brown (Ed.), *Pediatric Hematology/Oncology: A Biopsychosocial Approach.* New York: Oxford University Press.

Williams,PD, **Schmideskamp,J, Ridder, EL,** and Williams,A, Symptom monitoring and dependent care during cancer treatment in children, *Cancer Nursing*, Vol.29, No3,2006, pp.188-197.

Resident Research

At the suggestion of our own Dr. Andreas Deymann, we are adding a new section to the Research News called Resident Research. In this section we will highlight resident research involvement and opportunities for resident participation in research. We hope this helps to communicate the availability of research and scholarly opportunities for KUMC residents. If you have information to be included in future columns, please forward it to Dr. Ann McGrath Davis. For this month, Dr. Jennifer Raymond spoke to residents on several occasions and gathered the following information. Over time I sincerely hope that this section of the Research News becomes more active.

1. Rose Anne Ong Yiu is currently working on a research project with Dr. Raghuvver.
2. Jennifer Raymond is completing a paper for submission to the Journal of Family Medicine. It will appear in the Innovations in Family Medicine Education section. The research is related to overweight pediatric patients and the use of a screening tool in out-patient clinics to assist clinicians in the process of counseling their patients.

Odds & Ends...

Martha Staker, Director of Project EAGLE, made two national presentations at the Eighth National Head Start Conference in Washington DC in June, 2006.

Kathy Davis had three items regarding research for the current Research News:

1. A \$25,000 grant from Kan-ed to provide interactive distance learning presentations for students across the state of Kansas. The presentations will include two series:
 - a. Opportunities for Health Careers which will include monthly presentations from various health care teams at KUMC, and
 - b. Special Health Topics for Students, which will include monthly presentations on topics of interest/importance to children and adolescents (Effects of Nicotine; Exercise and Fitness; Healthy Eating; Methamphetamines and Other Substances of Abuse; Protect Your Bones and Joints, etc.).
2. An \$85,000 grant to continue the current Connected Kansas Kids project, providing staff development to teachers and other education professionals regarding the educational needs of students with health conditions.
3. I am preparing to defend my dissertation proposal, entitled "Educators' Perceptions of Students with Special Health Care Needs". The research will attempt to identify educators' perceptions regarding having a student with special health care needs in the classroom, end-of-life issues at school, and the effectiveness of a telehealth intervention to provide information and support to educators on these topics.

Dr. Hyman gave three scholarly talks this spring around the country:

1. Denver May 10, 2006. "Gastroesophageal Reflux" during The Young Child with Special Needs Pediatric Feeding Disorders Conference, led by Kay Toomey, PhD. Emphasized the concept that neuropathic upper abdominal pain is the cause for emesis in many infants and toddlers who refuse to eat.

2. Los Angeles May 22, 2006. "Treatment for infants and toddlers who won't eat" during Clinical Symposium titled Food Refusal in Infants and Toddlers, chaired by Hayat Mousa, MD and me, during Digestive Disease Week, the annual meeting of the Am Gastroenterological Assn.
3. Milwaukee, June 10, 2006. "Coalescing Cyclic Vomiting Syndrome" at a meeting of the Cyclic Vomiting Syndrome Association. I will introduce and characterize a syndrome of subacute, prolonged vomiting lasting weeks to months, with intervals lasting months with no symptoms.

Dr. Michael Rapoff & Dr. Ann McGrath Davis attended the National Child Health Psychology Conference in Gainesville, Florida in April. Dr. Rapoff presented a poster: Rapoff, M.A.: A review and critique of electronic monitoring devices for measuring adherence to pediatrics medical regimens. This poster is hanging up on the ground floor of the Miller building for those who would like to see it. Dr. Davis gave a podium presentation: Davis, A.M., James, R.L., Boles, R.E., Sullivan, D.K., Goetz, J. & Donnelly, J. Pediatric Obesity in Rural and Urban Areas.

Dr. Jennier Lowry and her team have had the following abstracts accepted for presentation at the North American Conference on Clinical Toxicology in October 2006.

1. "Pediatric Exposures to Grandparent's Medication", Lisa Oller, Tama Kay, Carol Moyer, Jennifer Lowry (Poster)
2. "Adverse Events in Pediatric Exposures to the Cholinesterase Inhibitor Class of Drugs", Tama Sawyer and Henry Spillers (Poster)
3. "Provoked Urinary Excretion Testing for Heavy Metals in Children with Autism", Jennifer Lowry, Sarah Soden, Carol Garrison, and Gary Wasserman. (Platform Presentation)
4. "Lead and Its Effects on Cytochromes P450". Jennifer Lowry, Gary Wasserman, Steve Leeder, Andrea Gaedigk, Greg Kearns (Poster)

Dr. Pam Shaw was honored at the Gold Humanism Honor Society Inaugural Induction Ceremony on Wednesday, April 19th.

A new course, **Introduction to Clinical Research**, will be offered at KUMC in the fall of 2006. This course will be taught by Drs. Richard Barohn and Jeffrey M. Burns. Classes will be held on Thursday evenings from 5-6:30pm in Orr Major and will focus on all aspects of clinical research. As the flyer states "The course will provide a comprehensive overview to clinical research. The student will gain an understanding of how to develop clinical research questions including protocol design and the factors that should be considered in initiating a clinical research study." For more information contact Dr. Barohn at 588-6094 or Dr. Burns at 588-0682.

Dr. Kathryn Veal has a publication in press: Lowry JA, Veal K, Belmont JM. The Epidemiology of Pediatric Environmental Exposures. Pediatric Clinics Of North America. She was also named one of "America's Top Pediatricians" for 2006, and has submitted *another* grant for review: Veal, K., Lowry, J. Development of a Regional Web Based Pediatric Environmental Education Course for Health Professionals, EPA, \$48,960.