

# Research News

*Newsletter of*  
**The University of Kansas Medical Center**  
**Department of Pediatrics**

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Volume 21



## **Clinical and Translational Science Awards – NIH**

Submitted by Kathy Davis

The 2006 National Institutes of Health (NIH) Reform Act includes a section which provides for dedicated funding for pediatric clinical research in the context of the Clinical and Translational Science Awards (CTSAs). Pediatricians have a long tradition of working together and, when combined with the emphasis of CTSAs on translational research, the opportunity exists for significant advancement in pediatric research (1).

A brief overview of the CTSA program follows. This and additional information regarding CTSAs can be found at the Clinical and Translational Science Awards website:

<http://www.ctsaweb.org/index.cfm>

The [Clinical and Translational Science Awards](#) (CTSAs) is a consortium that is transforming how clinical and translational research is conducted, ultimately enabling researchers to provide new treatments more efficiently and quickly to patients. The consortium is designed to:

Encourage the development of new methods and approaches to clinical and translational research

- Improve training and mentoring to ensure that new investigators can navigate the increasingly complex research system
- Design new and improved clinical research informatics tools
- Assemble interdisciplinary teams that cover the complete spectrum of medical research
- Forge new partnerships with private and public health care organization

### **About CTSAs**

Drawing from experience of the [NIH Roadmap for Medical Research](#) and extensive community input, the Clinical and Translational Science Awards (CTSAs) program creates a definable academic home for the discipline of clinical and translational science at institutions across the country.

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This consortium includes 24 academic health centers (AHCs) located throughout the nation. When fully implemented in 2012, about 60 institutions will be linked together to energize the discipline of clinical and translational science. The CTSA consortium is funded by the National Center for Research Resources (NCRR), a part of the National Institutes of Health (NIH).

### **Pediatrics Oversight Committee**

The CTSA Pediatrics Oversight Committee provides a unique national forum for CTSA investigators and NIH scientists to identify collaborative opportunities to facilitate pediatric clinical and translational research through the CTSA program. This oversight committee will identify barriers, set priorities for developing collaborative solutions and standard approaches to address the unique challenges in pediatric research, and recommend strategies that can be implemented across the CTSA program to the CTSA Steering Committee. The oversight committee will also coordinate Consortium wide approaches to pediatric research needs.

A chart of the CTSA Pediatrics Oversight Committee can be viewed at:

[http://www.ctsaweb.org/committee.cfm?com\\_ID=27](http://www.ctsaweb.org/committee.cfm?com_ID=27)

1. Hayward, A. (2007). Pediatric research in the era of clinical and translational science awards. *Journal of Pediatrics*, 50:567-8.

Other articles of interest re: current issues in pediatric research:

2. Shaul, P.W. (2007). The cold, hard truth about pediatric research. *Pediatric Research*, 61,506-9.
3. Devaskar, S.V. (2004). Pediatric research – a look toward the future. *Pediatric Research*, 55,179-80.

## **Human Research Protection Program**

Karen Blackwell, Director of the Human Research Protection Program will be providing periodic updates on services, events and frequently asked questions. Please feel free to contact Karen for questions, comments, or suggestions (588-0942; [kblackwe@kumc.edu](mailto:kblackwe@kumc.edu))

See the link below for information:

<http://www2.kumc.edu/researchcompliance/hrpp.htm>

## **Current Pediatric Grants/Contracts Fiscal Year 2008**

Barkley, H.W., Lowry, J., Veal, K.

2007-2010

“Development of the Region VII PEHSU at KUMC.”

AOEC, Agency for Toxic Substance and Disease Registry – Total direct costs: \$128,000 annually

### **Dasouki, M. (Co-PI)**

Six Month Study of Gentamicin in Duchenne Muscular Dystrophy With Stop Codons . Principal Investigators: Jerry R. Mendell, M.D. The Research Institute at Nationwide Children's Hospital/ Nationwide Children's Hospital and Ricahrd Barohn, MD, Department of Neurology, university of Kansas Medical Center.

### **Dasouki, M. (Co-PI)**

Myozyme Temporary Access Program (MTAP). Principal Investigators: Ricahrd Barohn, MD, Department of Neurology, university of Kansas Medical Center.

**Davis, A.M. (PI)** 4/15/05-04/14/10  
“Enhancing Nutrition and Activity of Rural Children”  
NIH/NIDDK - Total direct costs: \$566,721

**Davis, A.M., (Co-Investigator)** 12/31/06-12/31/09  
“Effectiveness of a Treatment of Pediatric Obesity”  
DHHS - Total costs: \$737,466

**Davis, A.M., (PI)**  
“Healthy Hawks Pediatric Obesity Clinic”  
Healthcare Foundation of Greater Kansas City-\$220,000 for 2 years

**Davis, A.M., (Co-PI)**  
“Responding to the crisis: Training school nurses to provide nutrition and exercise information to children and families”  
Healthcare Foundation of Greater Kansas City-\$114,648 for 2 years

**Davis, K. (PI)**  
“Connected Kansas Kids: Connecting Schools and Students with Special Health Needs”  
Kan-Ed - Total direct costs: \$100,000.  
\*\* see website at [www.connectedkansaskids.com](http://www.connectedkansaskids.com)

**Ellerbeck, Kathryn (PI)** 12/31/07  
“Sex Differences in Autism: Potential Role of Oxytocin Signaling”  
Cure Autism Now Foundation - Total direct cost: \$27,612

**Harty, J. (PI)**  
Francis Family Foundation - \$50,000 – 7/1/07 to 6/30/08  
Reading is Fundamental - \$59,400 – 9/1/07 to 8/31/08  
Reach Out and Read - \$36,000 – 10/1/07 to 6/30/08

**Hetu, C (PI), Hyman, P (Co-PI), Harris, (Co-PI)** 7/1/07-6/30/08  
“Effect of Rooibos Tea on Infant Colic”  
Children’s Miracle Network - \$9,300

**Johnson, C. (PI)** 7/1/06-6/30/08  
“Pediatric Consultation, PKU, Seizure, Rheumatology/Cardiology Outreach”  
KDHE - Total direct costs: \$125,362

**Johnson, Chet (PI)** 7/01/07 – 6/30/08  
“Leadership Education in Neurodevelopmental and Related Disabilities”  
HRSA - Total direct costs: \$ 523,571

**Johnson, Chet (Co-Investigator)** 7/01/07 – 6/30/08  
“Administration on Developmental Disabilities”  
Department of Health and Human Services - Total direct costs: \$116,914

**Johnson, Chet (PI)** 7/01/07 – 6/30/08

“Services for Children with Special Health Care Needs – Clinic Support”  
KDHE - Total direct costs: \$147,247

**Johnson, Chet (PI)** 7/01/07 – 6/30/08  
“Services for Children with Special Health Care Needs – Outreach Services”  
KDHE - -Total direct costs: \$142,502

**Lowry, J. (PI)** 9/1/2005-8/31/08  
“Poison Control Stabilization and Enhance”  
Poison Control Center – Total direct costs: \$161,566

**Lowry, J. (PI)** 8/31/06-8/31/08  
“Mid America Poison Control Center – Support of Center”  
KDHE - Total direct costs: \$134,000

**Lindsley, C. (PI)** 7/29/03-12/31/08  
“Juvenile RH North Short Long Island Jewish Health”  
Total direct costs: \$390

**Okonkwo, K. (PI)** 7/1/07-6/30/08  
“Cerebral Microvascular Acclimitazation to Chronic Systemic Hypoxia: The Role of Nitric Oxide Synthase (iNOS) Upregulation”  
Children’s Miracle Network - \$5,350

**Nelson, E. (PI),** 2006-2008  
Davis, K (Co-Investigator). TeleHelp: A Comprehensive School-based Telemedicine Program for Urban Youth At-Risk for Depression. Health Care Foundation of Greater Kansas City, Total costs: \$197,972.

**Nelson, E, (Co-PI)** 2006-2009  
Ellerbeck, K. (Evaluator). Kansas TeleHealth Network. . HRSA Office for the Advancement of TeleHealth, Total costs: \$900,000.

**Peacock, G & Nelson, E. (Co-Investigators)** 7/1/06-6/30/08  
Implementing the American Academy of Pediatrics Attention-Deficity/Hyperactivity Disorder Diagnostic Guidelines in a School-based Telemedicine Clinic.  
Children’s Miracle Network-\$9,980

**Rapoff, M. (PI),** 8/1/06-4/30/08  
"Headstrong Intervention for Recurrent Pediatric Headache"  
R01, National Institute of Neurological Disorders and Stroke-Total costs: \$563,090

**Rapoff, M (PI) & Wasson, MC (Co-PI)** 7/1/06-6/30/08  
“A minimal contact cognitive-behavioral intervention for pediatric functional gastrointestinal disorders: A pilot study of Gutstrong.”  
Children’s Miracle Network - \$9,963

**Rapoff, M (PI)** 7/1/07-9/30/07  
“Jointstrong Intervention for Juvenile Arthritis”  
American college of Rheumatology-\$2,500

- Raghuveer, T. (PI)** 9/1/02-1/31/08  
“Do Dietary components influence the severity of oxygen-induced vascular pathology in newborn rat retina”  
KUMC School of Medicine Bridging Grant - \$10,000
- Reese, R.M. (PI)** 7/01/07 – 6/30/08  
“Leadership Education in Neurodevelopmental and Related Disabilities”  
HRSA - Total direct costs: \$ 523,571
- Reese, R.M. (PI)** 9/01/97-8/31/08  
“Combining Technologies to Maximize Outcomes: Online and Telemedicine Training Program for Parents of Children with Autism.”  
U.S. Dept of Education – Total direct costs: \$125,009
- Reese, R.M. (Co-Investigator)** 7/01/07 – 6/30/08  
“Administration on Developmental Disabilities”  
Department of Health and Human Services - Total direct costs: \$116,914
- Scheinman, Jon (PI)** 9/1/06-8/31/08  
“Effect of Pyridoxamine in Oxalate excretion in Stone Diseases and Hyperoxaluria”  
NIH - Medical City Dallas Hospital. Total direct costs: \$286,130
- Scotten, M. (Co-Investigator)** 7/1/05-6/30/08  
“Cystic Fibrosis”  
Cystic Fibrosis Foundation – Total direct costs: \$49,070
- Shaw, P (PI)**  
“Development Screening”  
Kansas Health Foundation (administered by KAAP)-\$24,000
- Staker, M. (PI)** 7/07 – 6/08  
“Project EAGLE Early Head Start”  
Including “Early Head Start Oral Health Initiative”  
DHHS/ACF/Head Start Bureau - \$1,748,620  
Kansas Department of SRS - \$830,825
- Staker, M. (PI)** 7/07 – 6/08  
“Project HOPE”  
KDHE - \$98,034
- Staker, M. (PI)** 6/07 – 5/08  
“Healthy Start”  
Maternal Child Health Coalition - \$175,000
- Staker, M. (PI)** 3/04 – 2/09  
“Centralized Intake and Referral System”  
DHHS/HRSA/MCHB/Healthy Tomorrows - \$250,000
- Staker, M. (Co-PI) & Carta, J. (Co-PI)** 9/04 – 8/07

“Early Reading First”  
Department of Education – \$2.8 Million

**Staker, M. (PI)** 9/07 – 9/08  
“Early Childhood Professional Development Program”  
Mid-America Regional Council/Department of Education – \$120,000

**Staker, M. (PI)** 7/07 - 6/08  
“Healthy Families”  
Unified Government of Wyandotte County/Kansas City, KS - \$141,522

**Staker, M. (PI)** 6/06 - 8/07  
“Integrating Effective Evidence-Based Approaches for Working with Young Children and Their Families”  
Sub-contract from the KU Life Span Institute/Beach Center - \$10,556

**Staker, M. (PI)** 9/06 - 6/07  
“Crossroads to Early Language and Literacy”  
Sub-contract from USD 500 - \$13,546

**Staker, M. (PI)** 1/07 - 12/07  
“Early Childhood Comprehensive Planning”  
Kansas Children’s Cabinet - \$10,000

**Staker, M. (PI)** 2007-2011  
“SPARC Family Literacy Leadership Team Training”  
Sponsored by the National Head Start Family Literacy Center – travel reimbursement

**Staker, M. (PI)** 6/07 – 5/08  
“Healthy Start”  
Maternal Child Health Coalition - \$175,000

**Staker, M. (Co-PI) and Davis, A. (Co-PI)** 2008  
“Nutrition and Physical Activity Initiative for Teen Mothers and Their Children”  
Women’s Foundation of Greater Kansas City - \$13,783

**Staker, M. (PI)** 2007-2008  
“Early Childhood Strategic Communication Grant”  
Voices for Children Foundation - \$10,000

**Tancabelic, J (PI)** 7/1/07-6/30/08  
“Evaluating the Presence of Vitamin D receptor, Caspase 3 and Ki67 (MIB-1) in Human Osteocarcoma”  
Children’s Miracle Network - \$5000.

**Veal, K (Co-PI)** 2/1/2007-1/31/2008  
“Development of Region VII Pediatric Environmental Health Specialty Unit at KUMC.”  
Association of Occupational and Environmental Clinics (AOEC) and Agency for Toxic Substance and Disease Registry. \$128,000

## **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 1 Diabetes”  
NIH-TrialNet

**Casey, J. (PI)**

“Patient registry for monitoring long term safety  
And efficacy of Increlex”  
Tercica Inc.

**Harris, J (PI)**

“A Phase III, Randomized, Multinational Study, Double-Blinded for the Immunogenicity and Consistency  
Evaluation of 3 Hib-MenCy\_TT Vaccine Lots in Healthy Infants 2, 4, 6, and 12 to 15 Months of Age”  
GlaxoSmithKline

**Harris, J (PI)**

“Open Randomized, Multicenter Study of the Safety, Tolerability and Immunogenicity of VAQTA given  
concomitantly with PedvaxHIB and Infanrix in Healthy Children 15 months of age”  
Merck

**Hetu, C (PI)**

Effect of Rooibos Tea on Infant Colic  
**Children’s Miracle Network**

**Hyman, P. (PI)**

Safety, Efficacy, and Pharmacokinetics of Lubiprostone in Pediatric Patients with Constipation”  
Sucampo

**Hyman, P. (PI), Harris, J. and Hetu, C. (Co-PI)**

Effect of Rooibos Tea on Infant Colic  
Children’s Miracle Network

**Lowry, Jennifer (PI)**

“Surveillance of the RADARS 7 by Poison Control Centers”  
Denver Health and Hospital Authority

**Olson, N (PI)**

“Allergy Immunology Rheumatology”  
Pharmacia Corp

**Scheinman, Jon (PI)**

“Focal Glomerulosclerosis Trial”  
St. Joseph Hospital Medical Center

**Tancabelic, J (PI)**

“Children’s Oncology Group”  
National Childhood Cancer Foundation Total

## **Publications**

Angdisena J, **Dasouki M** and Ibdah J. Inborn Errors of Mitochondrial Fatty Acid Oxidation. In: Suchy, Sokol, and Balistreri, eds. *Liver Disease in Children*. Pages 736-766. 3rd Edition. Cambridge University Press. May, 2007.

Baggett, K., Warlen, L., Hamilton, J., Roberts, J., & **Staker, M.** (2007). Screening infant health indicators: An early Head Start initiative. *Infants & Young Children*, 20, 300-310.

Bursch, B., Hyman, P. (2007). Gastrointestinal features of pediatric illness falsification. In Walker, *Pediatric gastrointestinal disease*.

**Dasouki M**, Markova D, Garola R, Sasaki T, Charbonneau NL, Sakai LY, Chu ML. Compound Heterozygous Mutations in Fibulin-4 Causing Neonatal Lethal Pulmonary Artery Occlusion, Aortic Aneurysm, Arachnodactyly and Mild Cutis Laxa. *Am J Med Genet A*. 2007 Nov 15;143(22):2635-41.

**Harris, J.** Editorials: Managing fever without a source in young children: The debate continues. *American Family Physician*, 76, No. 12.

Olmsted, K., Parthiban, A., & Raghuv eer, T. (2007). Can inhaled prostacyclin stimulate surfactant in ELBW infants? *Journal of Perinatology*, 27, 724-726.

Opole, I., **Belmont, J.**, Kumar, A., & Moriarty, P. (2007). Effect of low-density lipoprotein apheresis on inflammatory and noninflammatory high-density lipoprotein cholesterol. *Am J Cardiol*; 100: 1416-1418.

**Rapoff, M.** & Stark, L. (2008). Editorial: *Journal of Pediatric Psychology* statement of purpose: Section on single-subject studies. *Journal of Pediatric Psychology*, 33, 16-21.

**Vijay M. Patel, Talkad S. Raghuv eer**, Diane L. Persons, Stephen A. Myers: Trisomy 4q Syndrome: A rare Syndrome Phenotypically Similar to Trisomy 18. *The Internet Journal of Pediatrics and Neonatology*. 2007. Volume 7 Number 2.

## Presentations

**Dasouki M,** Markova D, Garola R, Sasaki T, Sakai L, M-L. Chu. Novel Autosomal Recessive Fibulin-4 Mutations Causing Neonatal Lethal Connective Tissue Syndrome. ACMG annual meeting, Nashville, TN. Abstract 239. March, 2007

**Dasouki M,** Penning K, Shwaiki A, Mundt S. Fanconi Anemia D1 Presenting as Breast Cancer caused by bi-allelic BRCA2 gene mutations. ASHG 57th Annual Meeting, San Diego, CA. Abstract 360. October, 2007.

**Nelson, E., Davis, K., & Sharp, S.** *TeleHelp: An Interdisciplinary School-Based Telemedicine Clinic For Youth Depression.* National Association of Rural Mental Health conference, August 2007.

**Nelson, E., Khanna, P, Sharp, S., Cain, S., & Sonnenschein, K.** *Application of telemedicine practice parameters in school-based TeleKidcare clinics.* American Academy of Child and Adolescent Psychiatry conference, October 2007.

**Nelson, E.** *Telemedicine and access to care.* Health Resources Services Administration (HRSA) conference, October 2007.

**Nelson, E.** *Child telemental health services.* University of Missouri Department of Psychiatry Grand Rounds, November 2007.

**Peacock, G., Nelson, E., & Foster, J.** *ADHD guideline adherence in a team telemedicine clinic.* Society for Developmental and Behavioral Pediatrics conference, September 2007.

**Rapoff, M.A.** How do you know your patient is taking medicines, exercising, and following other regimens you recommended? Presented at the annual meeting of the American College of Rheumatology and the Association of Rheumatology Health Professionals, Boston, MA., November 10, 2007

## Odds & Ends

\***Dr. Prabhu Parimi** has been asked to review neonatal fetal nutrition and metabolism abstracts for the 2008 PAS and Asian Society for Pediatric Research Joint meeting to take place in Honolulu, Hawaii, May 2-6.

\***Dr. Michael Rapoff** has been appointed as an associate editor for the *Journal of Pediatric Psychology*.

\*One of our residents, **Dr. Kingsley Okonkwo**, has been awarded a travel grant from the New York Academy of Medicine to attend and present at the International Conference of the Society of Urban Health to be held at Johns Hopkins University. He will be making an oral presentation, entitled "Male circumcision as a preventive measure to combat HIV infection in Sub Saharan Africa".