

Office of Faculty Development Newsletter

Global Contributions

The New York Times

Antibiotics cut death rates for malnourished kids

Severely malnourished children are far more likely to recover and survive when given antibiotics along with a therapeutic peanut butter-based food than children who are simply treated with the therapeutic food alone, researchers at Washington University School of Medicine in St. Louis have found.

"The findings are remarkable" says Indi Trehan, M.D., lead author of the research, published Jan. 31 in *The New England Journal of Medicine*. Based on previous research, we didn't think there would be much benefit from antibiotics. We did not at all expect to see a drop in the death rate—but there was, and it is significant."



Washington University School of Medicine's Indi Trehan, MD, instructs parents of severely malnourished children in Malawi how to measure doses of medication.

The study involved nearly 2,800 children in Malawi, in sub-Saharan Africa, with severe malnutrition. Each child was given an average of 30 days of therapeutic food and a placebo or an oral antibiotic—either amoxicillin or cefdinir—for seven days.

Overall, 88.3 percent of the children enrolled in the study recovered from severe malnutrition. Deaths accounted for the larg-

est proportion of children who did not recover, with mortality rate considerably higher among those who received placebo than among those given antibiotics.

The researchers found a 44% drop in mortality with the use of cefdinir and a 36% drop with amoxicillin, compared with the use of no antibiotics.

Early last year, Trehan and Mark Manary, M.D., senior author of the study, presented their findings to the World Health Organization, which establishes international guidelines for the treatment of malnutrition and other diseases.



Manary

"The addition of antibiotics has a profound impact that we hope will change how these children are treated worldwide," says Manary the University's Helene B. Roberson Professor of Pediatrics. "This trial provided very solid, very objective, top-of-the-line scientific evidence to answer the question of whether antibiotics should be added to severely malnourished children's treatment regimen. The answer is yes. This is a game-changer. This will save more lives."

[Read New York Times Coverage](#)

[Read more from The Record](#)

Office of Faculty Development

[Brian Hackett](#), M.D., Ph.D., Director
[Bess Marshall](#), M.D., Asst. Director
[Janet Braun](#), Program Coordinator, 454-4952



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Excellence in Medicine

E. Mead Johnson Award for Pediatric Research

Bradley L. Schlaggar, M.D., Ph.D., the A. Ernest and Jane G. Stein Professor of Neurology at Washington University School of Medicine has been awarded the E. Mead Johnson Award for Pediatric Research.

The award, among the most prestigious in pediatric research, is given by the Society for Pediatric Research for outstanding research achievements in pediatrics. Schlaggar, who is also on staff at St. Louis Children's Hospital, is being honored for his contributions to basic and translational research using brain imaging, such as functional MRI, to understand the development of human cognition.

"Dr. Schlaggar has made tremendous contributions to the study of developmental cognitive neuroscience," says Alan L. Schwartz, PhD, MD, chairman of the universi-

ty's Department of Pediatrics. "We are pleased his outstanding efforts are being recognized with such an esteemed award."



Schlaggar's research has advanced the understanding of cognitive development in children. He has created and implemented cutting-edge functional neuroimaging methods to investigate basic mechanisms in the development of language, reading, attention and executive control. Schlaggar has investigated these issues in

healthy children and those whose cognitive skills are delayed by strokes or illness, including Tourette Syndrome. [Read More](#)

Pediatric Program for Brain Injuries Saves Lives, Reduces Disabilities



A study led by **Jose Pineda, M.D., Jeffrey Leonard, M.D., and Allan Doctor, M.D.**, found children with traumatic brain injuries are more likely to survive and

avoid long-term disabilities when treated aggressively as part of a designated neurocritical care program that brings together neurologists, neurosurgeons, trauma and other critical-care specialists, according to a new study at WUSM.

The investigators tracked the results of such a program at St. Louis Children's Hospital. They studied the outcome of 123 cases before and after the hospital launched a pediatric neurocritical care program (PNCP) in September 2005.

"We were amazed by the results," says Pineda, M.D., Assistant Professor of

pediatrics and neurology, and director of the program at St. Louis Children's. "We analyzed the data rigorously, and we found that our new program of care resulted in a striking improvement in outcome for children with severe traumatic brain injury. Mortality for these children was dramatically reduced, and we also noted a meaningful improvement in outcomes for survivors. We know that children who suffer traumatic brain injuries have long lives ahead and must reintegrate into society and be independent. That's where we set the bar."

The researchers' findings are available online in the journal *The Lancet Neurology*. "The study is the first to show benefits of a pediatric neurocritical care program," Doctor says. "It is rewarding to see what a multidisciplinary team can accomplish when aggressively treating critically ill children with severe traumatic brain injury."

[Read More](#)

Achievements

Medical School Faculty Awards



Distinguished Investigator Award

David H. Gutmann, M.D. Ph.D.,
Donald O. Schnuck Family Professor of Neurology



Distinguished Community Service Award

Jane M. Garbutt, MBChB,
Associate Professor of Medicine
and of Pediatrics



Distinguished Clinician Award

Michael J. Noetzel, M.D.,
Professor of Neurology and Pediatrics

Appointments

Lianne Woodward, Ph.D., is appointed Professor of Pediatrics on the Investigator Track with tenure in the Division of Newborn Medicine. Dr. Woodward comes to Washington University from the Department of Psychology, University of Canterbury, Christchurch, New Zealand.



After earning her B.A. in the Departments of Psychology & Education, and her M.A. from the Department of Psychology at the University of Canterbury, New Zealand, she moved to England and completed a Doctor of Philosophy in the Department of Psychology, Institute of Psychiatry, University of London, England, with a thesis entitled, "The role of family factors in childhood hyperactivity." Afterward she served as a research fellow in the Department of Psychiatry and Behavioural Science at the University of Auckland, at Christchurch Health & Development Study, Department of Psychological Medicine, University of Otago, Christchurch, and then as a Repatriation/Postdoctoral Fellow Dunedin Multidisciplinary Health and Development Research Unit in the Department of Paediatrics at the University of Otago, Dunedin. She rose to the rank of Professor of Developmental Psychology and Di-

rector of the Canterbury Child Development Research Group at the University of Canterbury in New Zealand. Her website notes that, "Professor Woodward is a Child Developmental Psychologist with over 25 years research experience working with high-risk and typically developing children in longitudinal studies. More recent studies include prospective follow-up studies of children born very preterm and the developmental effects of prenatal drug exposures. Her research has contributed greatly in the understanding of the neurological and socio-contextual processes that place children at risk for adverse cognitive, behavioral and educational outcomes, with recent awards from the New Zealand Health Research Council and Royal Society." Prior to departing New Zealand, Professor Lianne Woodward was awarded a prestigious James Cook Research Fellowship, the Federation of Women's Institute Research Scholarship Award, the Liley Medal for an outstanding contribution to health and medical sciences, and the Condliffe Memorial Prize for creative distinction in letters, the fine arts or the service of humanity. Upon arriving at Washington University, she became co-Director of the Human Clinical Core in the Washington University Intellectual and Developmental Disabilities Research Center.

Achievements

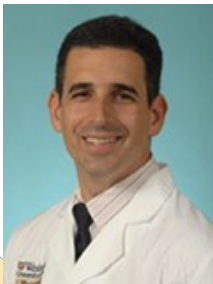
Promotions

Richard Buller, Ph.D., is promoted to Associate Professor of Pediatrics on the Research Track in the Division of Laboratory Medicine. Dr. Buller earned his bachelor's degree and Master's in Science degree at Michigan Technological University.



Dr. Buller's website notes that "he received his Ph.D. in microbiology from the University of Montana after which he completed an NIH postdoctoral fellowship working in the Laboratory of Persistent Viral Diseases. After finishing a postdoctoral fellowship in clinical and public health microbiology at Washington University he joined the Division of Laboratory Medicine in the Department of Pediatrics at Washington University, where he currently is the Director of the Virology Laboratory and Assistant Director of the Special Projects Laboratory. Dr. Buller is a Diplomat in Clinical and Public Health Virology from the American Board of Medical Microbiology. Dr. Buller's research interests center on the use of molecular biology techniques to detect infectious disease agents in clinical specimens. Of particular interest are agents causing central nervous system infections, infections due to cytomegalovirus, viral respiratory tract infections, and tick-borne infections. Dr. Buller's research interests center on the use of molecular biology techniques to detect infectious disease agents in clinical specimens, especially those causing central nervous system infections, infections due to cytomegalovirus, viral respiratory tract infections, and tick-borne infections."

Stuart Friess, M.D., is promoted to Assistant Professor of Pediatrics on the Clinician Educator Track in the Division of Critical Care. After earning his B.S. in Biomedical Engineering at Brown University, he obtained his M.D. and served his pediatric in-



ternship, residency, and chief residency at Mount Sinai School of Medicine of NYU, New York. He then moved to The Children's Hospital of Philadelphia as a Fellow in Pediatric Critical Care Medicine. His scholarly focus and particular clinical expertise is in the area of traumatic brain injury in animal models and children.

Karen Gauvain, M.D., is promoted to Assistant Professor of Pediatrics on the Clinician Educator Track in the Division of Hematology and Oncology. Dr. Gauvain earned her B.S. in Computer Science at the University of Missouri in St. Louis and her M.D. at St. Louis University School of Medicine. She then served her internship and residency in Pediatrics at St. Louis Children's Hospital followed by a fellowship in Pediatric Hematology and Oncology at Washington University. Dr. Gauvain is an Assistant Professor in the Division of Pediatric Hematology/Oncology. Her clinical interests are focused in the field of neuro-oncology. Prior to moving to Washington University in 2012, she was the Director of Neuro-oncology at St. Louis University.



Steve Ming-She Liao, M.D. is promoted to Assistant Professor of Pediatrics on the Clinician Educator Track in the Division of Newborn Medicine. After earning his bachelor's degree in Biology at the University of California, Los Angeles, Dr. Liao moved to St. Louis University School of Medicine where he earned his M.D. degree and where he served his internship and residency in Pediatrics. He then came to Washington University where he completed a Masters in Clinical Investigation while serving his Fellowship in Neonatal and Perinatal Medicine.



(Continued on next page)

Achievements

Promotions

Steve Ming-She Liao, M.D. (Cont.)

He was awarded a Post-doctoral Career Development Program Award (K30), and a Career Development Award (KL2). He received a Scholar Abstract Award at the Translational Science Conference in 2012 in Washington D.C. According to his website, his "research focuses on neonatal neuroimaging and neurodevelopmental outcome. We hope to elucidate potential developmental alterations of brain function due to various risk factors including prematurity, infections, injuries, etc., and to have the ability to project neurobehavioral outcomes based on functional neuroimaging markers." He has published three first authored papers since arriving at Washington University.

Jose Pineda, M.D. is promoted to Associate

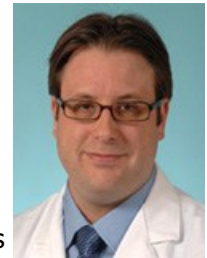


Professor of Pediatrics on the Clinician Educator Track in the Division of Critical Care Medicine. Dr. Pineda earned his bachelor's degree in Biology and his M.D. degree at the Universidad Francisco Marroquin School of Medicine, Guatemala. As noted on his website, following residency in Pediatrics at the University of South Florida, he completed training in Pediatric Critical Care Medicine at Duke University, which included research training at Duke University's Multidisciplinary Neuroprotection Laboratory. After fellowship training Dr. Pineda joined the faculty of the Department of Pediatrics and the McKnight Brain Institute of the University of Florida, where he conducted laboratory and clinical research studies of traumatic brain injury. Since arriving at Washington University, Dr. Pineda has had a joint appointment in the Department of Neurology and has served as Director of the Pediatric Neurocritical Care Program since it was established in 2005. His research work with the Neurocritical Care Team was recognized in the Washington University Record, which stated that his work has

documented that "children with traumatic brain injuries are more likely to survive and avoid long-term disabilities when treated aggressively as part of a designated neurocritical care program that brings together neurologists, neurosurgeons, trauma and other critical-care specialists." This work has been published recently in the *Lancet Neurology*. Dr. Pineda's teaching expertise has been recognized by the Outstanding Division Teaching Award. His clinical expertise is in the area of critical care of children with brain injury.

Charles Samson, M.D., is promoted to Assis-

tance Professor of Pediatrics on the Clinician Educator Track in the Division of Gastroenterology. His website notes that, "Dr. Samson received his bachelor's degree from the University of North Carolina at Chapel Hill and his medical degree from the University of Washington. He trained in pediatrics at the North Carolina Children's Hospital and pediatric gastroenterology at Cincinnati Children's Hospital Medical Center. Upon completion of his training, he was on the faculty at Cincinnati Children's for two years prior to joining the Washington University Faculty in July 2011. He is a member of the North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition (NASPGHAN), the Crohn's and Colitis Foundation of America (CCFA), and the American Gastroenterology Association (AGA). He is board certified by the American Academy of Pediatrics and the Academy Subsection of Pediatric Gastroenterology. His areas of interest include inflammatory bowel disease and quality improvement." He has been honored with the 2009 Procter Scholar Award while at Cincinnati Children's Hospital Medical Center and a Poster of Distinction at the 2011 Digestive Disease Week in Chicago. He was one of the experts on Inflammatory Bowel Disease who spoke on Pediatric Update.



Achievements

Promotions

Akshaya Vachharajani, M.D., is promoted to Associate Professor of Pediatrics on the Clinician Educator Track in the Division of Newborn Medicine. After earning his M.B.B.S. and M.D. degrees from the University of Bombay, India, Dr. Vachharajani served a Pediatrics Residency and earned an M.R.C.P



Diploma from the Royal College of Physicians, United Kingdom. He then moved to McMaster University in Canada where he was a Clinical Fellow in Neonatal-Perinatal Medicine before coming to St. Louis as a Clinical Fellow in Neonatal-Perinatal Medicine and a Pediatrics Resident at Washington University. His clinical expertise is in the neonatal intensive care unit and he has published more than thirty articles on rare conditions or unusual cases in neonates as well as reporting institutional experiences in outcome of cases of diaphragmatic hernia treated with ECMO and of Pierre Robin

Sequence. He participated in the Congenital Diaphragmatic Hernia (CDH) Task Force, a multidisciplinary task force that developed new guidelines for treating CDH in the NICU. His contribution in education has been particularly distinguished as he has served as Associate Fellowship Program Director of the Neonatal-Perinatal Medicine Program and given many lectures in the core curriculum sessions for medical students, residents, and fellows, conducted mock codes, proctored morning report, and taught cardiac life support classes. In addition, he developed simulation courses including a program to administer Neonatal Resuscitation for medical students, a boot camp for incoming neonatal-perinatal fellows in procedures, skills, and delivering bad news to families, and a skills camp for pediatric nurse practitioners and faculty in higher level NICU procedures. He has been recognized as the Outstanding Teacher of the Year for 2009-2010 and awarded for Outstanding Commitment to Teaching for 2010-2011.

Research Awards

Bednarski, J.	SLCH Foundation	Hyundai Scholar Program-Developmental Responses to DNA Breaks in Lymphocytes
Cantor, C.	NIH R01/U. of Miami	Genotype Phenotype Association in Pediatric Cardiomyopathy
Chinta, S.	AAP	Mean Effective Dose of Rapidly Administered Ketamine for Brief Pediatric Procedural Sedation
Doctor, A.	SLCH Foundation	Pediatric Neurocritical Care Program
Ferkol, T.	NIH R01	Viral Pathogenesis of Early Cystic Fibrosis Lung Disease
Friess, S.	NIH K08	Modulating Secondary Damage Following TBI in the Child
Haslam, D.	NIHR21	An HTS Assay for Inhibitors of C. Difficile Toxins
Hayashi, R.	NIH/Children's Hospital of Philadelphia	COG Chair Grant-Workload Intensity
Heuckeroth, R.	CDI	Building Tools for Regenerative Medicine to Specify and Pattern Pluripotent Neural Crest Cells
Holtz, L.	CDI	Defining the Role of Viruses in Environmental Enteropathy
Horani, A.	CDI	Characteristics of Heat2 in Ciliogenesis
Hulbert, M.	SLCH	Camp Crescent

Achievements

Research Awards

Inder, T.	SLCH Foundation	WU IDDRC
Jaffe, D.	NIH/Rhode Island Hospital	Teen Alcohol Screening in the Pediatric Emergency Care applied Research Network
Jay, P.	AHA Established Investigator Award	Maternal Age: A Modified Risk Factor for Congenital Heart Disease
Madden, L.	SLCH Foundation	Anti-Angiogenic Therapy after Autologous Stem Cell Rescue for Relapsed and Refractory Pediatric Solid Tumors
Manary, M.	CDC	Integrated Protocol for Treatment of MAM and SAM in Humanitarian Emergencies
Manary, M.	Gates Foundation	Human mRNA as a Biomarker for Environmental Enteropathy
Manary, M.	USAID	Cluster Randomized Controlled Trial of the Impact of Offering a Nutrition and Health Intervention to Children Recovered from Moderate Acute Malnutrition in Malawi
Manary, M.	Gates Foundation/Flinders University	Development of New Strategies to Improve Zinc Status in Children with Environmental Enteropathy at Risk of Diarrhea
Manary, M.	USAID/Tufts University	Optimizing the Nutritional Value of US Food Commodities
Morley, C.	CDI	Defining Host Determinants of Severe Childhood Pneumococcal Pneumonia
Morley, C.	March of Dimes/Basil O'Connor	Primary Immunodeficiency and Fatal Pneumococcal Infection in Mice Deficient for the Actinbundling Protein L Plastin
Odom, A.	NIH R01	Fosmidomycin resistance in Plasmodium Falciparum
Odom, A.	March of Dimes/Basil O'Connor	Understanding Fosmidomycin Resistance in Malaria
Plax, K.	SLCH Foundation	The SPOT
Rosenbaum, J.	SLCH Foundation	Pediatric Advanced Care Team (PACT)
Schuettpelez, L.	SLCH Foundation	Hyundai-Elucidation the Role of KLF7 in Lymphopoiesis
Schwartz, A.	NIH/K12	Child Health Research Center
Storch, G.	CDC/City of St. Louis	HIV Prevention Intervention for Targeted Populations at Risk
Storch, G.	National AIDS Fund/St Louis Effort for AIDS	National Aids Fund: Linkage to Care
Sweet, S.	NIH U01	B-Cell Targeted Induction to Improve Outcomes in Pediatric Lung Transplantation
Tarr, P.	Gates Foundation	Enteric Dysfunction Biomarker Development and Coordination

Faculty Development

New Faculty

Welcome to Pediatrics!

Michelle Vanstone, M.D., Instructor in Pediatrics, Endocrinology/Metabolism

Lianne Jane Woodward, Ph.D., Professor of Pediatrics, Newborn Medicine, Joint Appointment with Psychology

Clinician Educator Portfolio Workshop

Our recent workshop was filled to capacity. If you were unable to attend and would like guidance on your clinician educator portfolio, both Brian Hackett, M.D., Ph.D. and Bess Marshall, M.D. are available for one-on-one consultation. To schedule an appointment, contact Janet Braun at braun_j@kids.wustl.edu or 454-4952. Online resources are also available on OFD's [website](#).

All Faculty Breakfast

On March 1, 2013 approximately 15 faculty enjoyed a breakfast and discussion on family care issues with Ann Bingham of Bright Horizons. For information regarding family care resources including back-up care for children and elders, visit OFD's [website](#). For a set of handouts from the breakfast contact Janet Braun at braun_j@kids.wustl.edu.



Save the Date

All Faculty Breakfast

Got questions? Wiki-It

May 31, 2013 8:00 am—9:15 am
NWT8C

Come for breakfast and
learn about the new pediatric research faculty WIKI resource

Pediatric Grand Rounds New Date

Approaches to Advancing Diversity in Medicine and Science
Friday, October 4, 2013 9:15-10:15 a.m.

Joan Y. Reede, M.D., M.S., M.P.H., M.B.A.

Appointed as the first Dean for Diversity and Community Partnership at Harvard Medical School in January 2002, Joan Y. Reede is responsible for the development and management of a comprehensive program that provides leadership, guidance, and support to promote the increased recruitment, retention, and advancement of under-represented minority faculty at Harvard Medical School.

Work-Life Balance

Hikes

Hikes good for families with young children: Broemmelsiek Park

Features: Hiking Trails, 2.5 acre dog park, astronomy viewing area, fishing lake

The trails in the park are really laid-back. They quickly wander away from the park's amenities and have a wild feel.

Location: 35 miles west of downtown, St. Louis (St. Charles County)

For more info: [St Charles Parks](#)

Scenic Hikes: Cuivre River State Park

Scenery: Forested hills and hollows, serpentine creeks, prairies, bluff overlooks on the Cuivre River

Location: 19 miles north of Wentzville

For more info: [MO State Parks](#)

Remote and Wild Hikes (and scenic!): Lewis and Clark Trail

Scenery: Wooded ridges, deep hollows, and breathtaking overlooks from towering limestone bluffs edging the MO River.

Location: 2.5 miles southwest of the I-64/MO94 interchange

For more information: [All Trails](#) Excerpts from *60 Hikes within 60 Miles St. Louis*, Steve Henry, 2011



Youth Summer Camps

Summer camp listings can be found on our [website](#) and our [Facebook Page](#).



NEW! Work/Life Balance Brochure Available

Hiring, retaining and promoting a top team of innovative, dedicated and motivated physicians and scientists is a priority at WUSM, and we are committed to helping our faculty achieve optimum work-life balance and career satisfaction. This brochure provides detailed information about policies that can help faculty accommodate the dual commitments of home and career, targeting two key areas: • Dependent Care • Employee Policies/Resources. To request a printed [brochure](#) contact Janet Braun at braun_j@kids.wustl.edu

Fitness At Your Convenience

Do you have any winter pounds to rid?

Weight Watcher meetings are held at WUSM twice a week.

⇒ **Thursday 10:00 am at the Genome Center,**
4444 Forest Park Building , room 5206

Contact Judy Martin Finch, martinju@wustl.edu

⇒ **Thursday at 11:30 a.m. in CRSB 101**

Contact Erika Hayes, hayes_e@kids.wustl.edu

Can't decide? Just show up & be a guest for a meeting!

[BJC WellAware Fitness Center](#)



[WellAware on Facebook](#)