

Penn State Hershey Children's Hospital Newsletter

July 2011
Issue 1



Highlights

Community Events	2
Children's Hospital Building Progress	3
Research	4
Adolescent Medicine	8
New Faces	10
Kudos!	11



Children's Miracle Network raised a record-breaking **\$3,221,107** for Penn State Hershey Children's Hospital in 2010-2011!



From the Chair's Office

A. Craig Hillemeier, M.D., Chairman – Barbara Ostrov, M.D., Vice-Chair



South side view of new Children's Hospital. See page 3 for more photos and information.

Your feedback and participation is welcome! Please submit newsletter content, comments, suggestions, and questions to pedsnewsletter@hmc.psu.edu



Welcome to the inaugural issue of the new Penn State Hershey Children's Hospital Newsletter. As we plan the move to the new Children's Hospital facility and into the future, we plan to provide ongoing communication, updates, and announcements through the use of this regularly scheduled publication to enhance collaborative and cohesive pediatric-focused care by all faculty and staff.

Newsletter
This newsletter is an important tool to continue to engage all faculty and staff in the programs, people, and activities throughout Children's Hospital. It is to be used as a forum to recognize research efforts, grant awardees, publications and programs, and to welcome new faculty and key staff. Each publication will contain brief articles that focus on various programs and services, such as quality & safety, developments in the new hospital building project, patient satisfaction, departmental division updates, Children's Hospital community involvement, and new programs and initiatives. We welcome suggestions and ideas for inclusion in the

newsletter. An electronic mailbox has been established for this purpose: pedsnewsletter@hmc.psu.edu

Retreat
The Department of Pediatrics and the joint faculty worked together on a two-part retreat this past spring. The first meeting was February 3, leading to the development of four key working groups – Education, Clinical, Research, and Faculty Development. These groups brought proposed strategies to our second meeting on April 21, with a goal to create a workable action plan moving forward. We had wonderful participation in both these meetings—a feat given the size and geographic spread of our group—with participation from more than 120 faculty members on the Children's Hospital staff.
The four key groups provided these plans for moving forward:

Education: Proposed modification of resident education schedules to enhance their learning and minimize the impact

brought by duty-hours restrictions.

Clinical: Presented processes to improve access, as well as increased regional collaboration and care for our referring communities.

Research: Discussed the development of a comprehensive Children's Hospital Research Institute to enhance the current research programs and to help develop new research initiatives.

Faculty Development: An effort to improve annual faculty reviews to include a development plan, as well as to improve leadership and mentorship education.

We anticipate moving forward over the next year with several initiatives developed from the retreat. Updates will be presented in future issues of this newsletter.

Thank you in advance for your contributions to this publication. With your participation and input, this newsletter will provide a great service to our Penn State Hershey Children's Hospital community.

Upcoming Events



Monday, July 4 Independence Day Celebration

7:00 p.m.
Medical Center front lawn

"Salute to America"
A patriotic performance
by the Hershey Symphony
Orchestra

Wednesday, July 6 Visiting Professor

11:00 a.m.
C4702

"The Science of Man"
Professor B. M. Hedge
Retired Vice Chancellor of
Manipal Academy of
Higher Education, India



Monday, August 1 Children's Heart Group Golf Classic

Colonial Golf & Tennis
Club in Linglestown, PA

Proceeds benefit care
and treatment of children
with congenital heart
problems

Registration form:
<http://tinyurl.com/3ztu3sf>

Please call 717-531-6991
for more details.

Children's Hospital in the Community

Make-A-Wish Truck Convoy Lancaster, PA – May 8, 2011

For the second year, Penn State Hershey Children's Hospital had a great display for the Lancaster community with Children's Hospital giveaways and educational materials at this annual Mother's Day event.

Steve Lucking, M.D., and Barbara Ostrov, M.D., enjoyed the day speaking with many of the families and children who have had their care at the Children's Hospital. "It was a lot of fun," Lucking said. "There was a great deal of traffic at the table. People were very appreciative of the information and handouts. A number of families came by to tell us about their children or relatives who had care at the Children's Hospital. A number of Make-A-Wish children stopped by, as well." The only downside was the effect of the heat and the sun on the Children's Hospital chocolates. The sweet giveaways did not stand up too well. The children enjoyed the chocolate anyway, we are sure.

Drs. Lucking and Ostrov also provided everyone who stopped by with information about the breadth of services our faculty and staff provide in Lancaster County, now at the Noll Drive site.

They commented on with the warm reception received from many of the families. These are people who appreciate everything the Children's Hospital has to offer. They were very happy to show how well their children are doing now after receiving care from our providers. We look forward to a presence at this event again next year.

If anyone has questions about Make-A-Wish or would like to refer a child, please contact Dr. Lucking, who is on the Board of the Make-A-Wish Foundation of Philadelphia and Susquehanna Valley, or contact the Foundation directly at: 215-654-9355 ext. 112.



The 11th Annual Children's Miracle Network Community Celebration was held on Saturday, June 4 from 8:00 a.m.–4:00 p.m. outside the University Fitness Center on the Medical Center campus. The day was filled with food, games, entertainment, and more to help us kickoff the annual Telethon.

The Community Celebration included:

- Tour de Chocolate Town bike ride
- Balloon Chasers' 5K and 1 Mile Fun Walk/Run
- The "Meeting of the Marques" Car Show
- Zumba Fitness
- Storm Troopers
- Carnival games & prizes
- Face painting
- Health & Wellness Fair
- Hospital Bingo
- Craft Fair....and more!

The 2011 Children's Miracle Network Telethon was broadcast from 7:00 p.m., Saturday, June 11, through 6:00 p.m., Sunday, June 12.

Children's Miracle Network raised a record-breaking **\$3,221,107** for Penn State Hershey Children's Hospital in 2010-2011. The total was announced during the annual Telethon on WGAL-TV8. The total includes \$190,000 that was raised by employees of the Medical Center and College of Medicine. In addition, \$270,000 was raised through phone pledges during the Telethon to purchase a new pediatric ambulance and convert a second ambulance into a pediatric ambulance.

Complete details can be found at
<http://www.pennstatehershey.org/web/cmnhome>.

New Children's Hospital Building Progress

Recent Developments

- Modifications to patient rooms are being made by the architects based up staff feedback from the room mock-up survey responses.
- Currently completing the finally spraying of fire proofing to building
- Dry walling has begun on the ground, first, and second floors
- Outside metal panels are being placed on west and northwest outside walls

Click below to see the live webcam photos-- updated every 15 minutes!

<http://www.pennstatehershey.org/web/childrens/aboutus/webcam>



Top: East side of hospital

Middle: Installation of insulated exterior metal tiles

Bottom: First floor lobby



Take note...

Web Server Changes

Beginning this summer, *hmc.psu.edu* will no longer be used as the primary web server. ALL website traffic going to *hmc.psu.edu* will be redirected to web server ***pennstatehershey.org***. The only action required on your part is to now use *pennstatehershey.org* for all communications, stationery, business cards, promotional materials, e-mail signatures, etc.

This change does NOT affect the Infonet OR your e-mail address

ePrescribing

Sarah Iriana, M.D.

Electronic prescribing (ePrescribing) is an exciting new tool that allows direct electronic communication between providers and pharmacies and replaces paper prescriptions.

Through this system, providers have access to a patient's medication list, as well as information about the patient's formulary to aid in decision making. The prescription is then sent electronically to the

pharmacy and available for processing before the patient arrives at the pharmacy.

ePrescribing has been used in some departments at Penn State Milton S. Hershey Medical Center since 2010.

Currently, pediatric providers are ePrescribing in some outpatient locations including Penn State Hershey Pediatrics (at East Campus) and Penn State Hershey Medical Group—Elizabethtown (rheumatology and neurology).

It will be implemented in all remaining outpatient offices as part of the ambulatory electronic medical record roll out.

Goals of ePrescribing are to improve patient safety, improve practice efficiency, and increase patient satisfaction. Look for more information about ePrescribing at:

<http://infonet.hmc.psu.edu/cis/ePrescribing/ePrescribing.htm>

Research @ Penn State Hershey Children's Hospital

Penn State Hershey Children's Hospital continues to put a major emphasis on research to improve understanding of disease mechanisms and to enhance treatment and prevention of childhood illnesses. Research at Children's Hospital has grown dramatically with the support of numerous funding agencies and philanthropies, including Children's Miracle Network and The Four Diamonds Fund. We have developed a number of focuses in the Penn State Hershey Children's Research Institute, shown on this page, including: the Center for Host Defenses, Inflammation, and Lung Disease (CHILD); General Pediatric Research Center; Four Diamonds Pediatric Oncology Research Center; Pediatric Cardiovascular Research Center; Pediatric Clinical Research Office; and other divisional research focus. The enthusiasm and hard work that our faculty, nurses, residents, fellows, and students have demonstrated has resulted in an impressive breadth and depth of research.

The research section of this newsletter gives us a tremendous opportunity to promote advances in specific centers and to

make the entire department aware of the research initiatives that are ongoing, as well as new ones in development. It allows us to highlight significant research accomplishments at Penn State Hershey Children's Hospital through listing publications, grant awards, and regional, national, and international presentations, as well as special awards and recognitions achieved by our faculty for their work. We also hope to use this newsletter to disseminate information on available grant applications, and to increase awareness of support opportunities of general interest. We are entering a challenging but very exciting new era as we prepare to open our new Children's Hospital.

Barbara A. Miller, M.D.

Professor and Vice Chairman for Research, Department of Pediatrics

Christopher Millard Endowed Chair in Pediatric Oncology

Recent Publications

Children's Hospital faculty and Joint faculty

Device closure of patent ductus arteriosus in Marfan patients: safety and effect on the aortic root diameter. Zanjani KS, Wong AR, Sadiq M, **Weber HS**, Cutler NG. *Congenit Heart Dis*. 2010 Sep-Oct;5(5):439-43.

Directly observed therapy (DOT) for nonadherent HIV-infected youth: lessons learned, challenges ahead. Gaur AH, Belzer M, Britto P, Garvie PA, Hu C, Graham B, Neely M, **McSherry G**, Spector SA, Flynn PM; Pediatric AIDS Clinical Trials Group P1036B Team. *AIDS Res Hum Retroviruses*. 2010 Sep;26(9):947-53.

Expansion of hepatic tumor progenitor cells in Pten-null mice requires liver injury and is reversed by loss of AKT2. Galicia VA, He L, Dang H, Kanel G, Vendryes C, French BA, Zeng N, Bayan JA, Ding W, Wang KS, French S, Birnbaum MJ, **Rountree CB**, Stiles BL. *Gastroenterology*. 2010 Dec;139(6):2170-82.

Occipital sutures and its variations: the value of 3D-CT and how to differentiate it from fractures using 3D-CT? Choudhary AK, Jha B, **Boal DK**, **Dias M**. *Surg Radiol Anat*. 2010 Nov;32(9):807-16.

Pediatric American College of Surgeons National Surgical Quality Improvement Program: feasibility of a novel, prospective assessment of surgical outcomes. Raval MV, **Dillon PW**, Bruny JL, Ko CY, Hall BL, Moss RL, Oldham KT, Richards KE, Vinocur CD, Ziegler MM; ACS NSQIP Pediatric Steering Committee. *J Pediatr Surg*. 2011 Jan;46(1):115-21.

Single-breath counting: a pilot study of a novel technique for measuring pulmonary function in children. Ali SS, O'Connell C, Kass L, **Graff G**. *Am J Emerg Med*. 2011 Jan;29(1):33-6.

Defective motion processing in children with cerebral visual impairment due to periventricular white matter damage. **Weinstein JM**, Gilmore RO, Shaikh SM, Kunselman AR, **Trescher WV**, Tashima LM, Boltz ME, McAuliffe MB, Cheung A, Fesi JD. *Dev Med Child Neurol*. 2011 Jan 14. doi: 10.1111/j.1469-8749.2010.03874.x. [Epub ahead of print]

Cost-effectiveness analysis of fluticasone vs. montelukast in children with mild-moderate persistent asthma in the Pediatric Asthma Controller Trial (PACT). Wang L, Hollenbeak CS, Mauger DT, Zeiger RS, **Paul IM**, Sorkness CA, Lemanske RF, Martinez FD, Strunk RC, Szeffler SJ, Taussig LM. *J All Clin Immunol* 2011 Jan; 127: 161-166.

Paul IM, Savage JS, Anzman SL, **Beiler JS**, Marini ME, **Stokes JL**, Birch LL. Preventing obesity during infancy: A Pilot Study. *Obesity* 2011 Feb; 19: 353-361.

Variability among pediatric neurosurgeons in the threshold for ventricular shunting in asymptomatic children with hydrocephalus. **Dias MS**, Shaffer ML, **Iantosca MR**, Hill KL Jr. *J Neurosurg Pediatr*. 2011 Feb;7(2):134-42.

Clinical impact of the baseline echocardiogram in children with high-risk acute lymphoblastic leukemia. Avelar T, **Pauliks LB**, **Freiberg AS**. *Pediatr Blood Cancer*. 2011 Feb 25. doi: 10.1002/pbc.23066. [Epub ahead of print]

The current medical practice of the pediatric orthopaedic surgeon in North America. McCarthy JJ, **Armstrong DG**, Davey JP, Epps HR, Gerardi JA, Kanel JS, Mehlman CT, Roach JW, Schwend RM, Smith BG, Ward WT. *J Pediatr Orthop*. 2011 Apr-May;31(3):223-6.

Reliability of a point-based VTE risk assessment tool in the hands of medical residents. **Beck MJ**, Haidet P, Todoric K, Lehman E, Sciamanna C. *J HospMed*. 2011 Apr;6(4):127-33.

Recent Publications continued on page 5.





RESEARCH Spotlight

Joanna Floros, Ph.D. Laboratory
Center for Host defense Inflammation & Lung Disease Research

The initial impetus for research in the Floros lab was provided by the fact some prematurely born infants develop respiratory distress syndrome (RDS) of varying degrees of severity. Deficiency of pulmonary surfactant can lead to RDS, with infection being one of the potential complications. Pulmonary surfactant, a complex of lipids and proteins, is essential for life because it prevents lung collapse, enabling the lung to carry out its critical for life function, the exchange of O₂/CO₂.

Floros' research goals are to advance knowledge regarding the basis of individual variability to pulmonary disease susceptibility, to better understand why certain individuals are more susceptible to a given disease than others, and why individuals with a given disease exhibit varying disease severity.

The major research focus of the Floros lab is on the pulmonary surfactant proteins (SP-A, SP-B, SP-C, SP-D) and their role in lung health. She has studied the genetic complexity of these proteins and especially that of SP-A, as well as associations of surfactant protein genetic variants with disease susceptibility. The lab is currently studying mechanisms that may be involved in processes that differentially affect the expression and function of different surfactant protein genetic variants in the presence or absence of environmental insults (infection, ozone-induced oxidative stress).

One of the current and major hypotheses under investigation by Dr. Floros states that SP-A genetic variants differentially affect: a) the status of functional "readiness" of the alveolar macrophage (an important cellular component with which SP-A interacts) under basal or unprovoked conditions; and/or b) the ability of the alveolar macrophage to mount a successful host defense response against pathogen/irritant overload. A wide variety of techniques, approaches, and models are used, including proteomics, genetics, animal and cell culture models, and others. Dr. Floros has closely collaborated for more than ten years with Drs. Phelps and Thomas.

Dr. Floros has been invited by universities and various research and clinical institutions around the world to share the research findings of her team and, via these engagements, she is able

to represent Pennsylvania State University and the Department of Pediatrics at Penn State Milton S. Hershey Medical Center and Penn State College of Medicine, in particular on an international platform. Just in the last few years she presented in Greece, Switzerland, China (a five-city scientific tour of her research), Spain and India (two separate visits for each), Germany, and Sweden.

Dr. Floros has received many honors and awards. These, among others, include The Pennsylvania State University Faculty Scholar Medal Award for Outstanding Achievement, the Evan Pugh Professorship, which is the highest honor Penn State can bestow on its faculty (currently she is one of only three Evan Pugh Professors in the College of Medicine), and an honorary degree from the University of Ioannina in Greece. She served the College of Medicine and the University in a variety of leadership positions including president of the Hinkle Society, president of faculty organization, and chair of Pennsylvania State University Faculty Senate. She currently serves as the director of the Center for Host defense, Inflammation, and Lung Disease (CHILD) Research, in the Department of Pediatrics.

Dr. Floros has continual funding from the NIH since 1982 starting with an NIH fellowship, and including a New Investigator Research Award, several R01s, and the prestigious MERIT Award. She has published more than 160 peer-reviewed papers, reviews, chapters, and commentaries.



Joanna Floros, Ph.D.
March 6, 2011

Inauguration
Celebration Speaker at
Tag-VHS Diabetes
Research Centre

Chennai, India

Recent Publications continued from page 4

TRP Channels As Mediators of Oxidative Stress. **Miller, BA, Zhang W.** *Advances in Experimental Medicine and Biology*, 704:531-544, 2011.

Feasibility and parent satisfaction of a physical therapy intervention program for children with acute lymphoblastic leukemia in the first 6 months of medical treatment. Gohar SF, **Comito M**, Price J, Marchese V. *Pediatr Blood Cancer*. 2011 May;56(5):799-804.

Improved cerebral oxygen saturation and blood flow pulsatility with pulsatile perfusion during pediatric cardiopulmonary bypass. Su XW, Guan Y, Barnes M, **Clark JB, Myers JL, Undar A.** *Pediatr Res*. 2011 May 3. [Epub ahead of print]

c-Met represents a potential therapeutic target for personalized treatment in Hepatocellular carcinoma. You H, **Ding W**, Dang H, Jiang Y, **Rountree CB.** *Hepatology* 2011 May 26. doi: 10.1002/hep.24450. [Epub ahead of print]

Effect of Weight Loss on Menstrual Function in Adolescents with Polycystic Ovary Syndrome. **Ornstein RM**, Copperman NM, Jacobson MS. *J Pediatr Adolesc Gynecol* 2011 Jun;24(3):161-5.

Comparison of Biomarkers and Parent Report of Tobacco Exposure to Predict Wheeze. **Spanier AJ**, Kahn RS, Xu Y, Hornung R, Lanphear BP. *J Pediatr* 2011 Jun 4. [Epub ahead of print]

Pediatric Clinical Research Office (PCRO)



Current Studies in the PCRO

- Chronic Pain Study
- Autism
- Tourette Syndrome
- DNA Study

For more information about these studies, call 717-531-5656 or go to : <http://www.pennstat.edu/hershey.org/web/childrens/research>

What is DRS?

DRS is the **Departmental Research Series**, a pediatrics department endeavor that began in October 2010. The DRS was established as a tool for presenting current pediatrics research and to foster collaborative research efforts among faculty and staff in pediatrics and other departments.

DRS Coordinator, Gina Marcucci, works directly with division chiefs to arrange speakers representing each division. If you would like to receive future DRS e-mail notifications or have questions about the DRS, contact her at gmarcucci@hmc.psu.edu or extension 285575.

Thank you for supporting the DRS. We had over 200 attendees and 7 divisions participate this past academic year.

The next DRS presentation, given by Adam Spanier, M.D., Ph.D., will be Wednesday, September 14 at 12:00 pm in C6805.

Past DRS Presentations

- *Brain Protection During Pediatric Heart Surgery* - Brian Clark, M.D.
- *Tumor Suppression and Chromatin Remodeling in Leukemia* - Sinisa Dovat, M.D.
- *Clinical Outcomes of a Novel, Family-Centered Partial Hospitalization Program for Young Patients with Eating Disorders* - Rollyn Ornstein, M.D.
- *Eating Disorders in Anabaptist Patients: Cross Cultural Insights* - Barbara Gershenson, M.D.
- *Role of Translational Regulation in Oxygen-induced Retinopathy* - Jeffrey Shenberger, M.D.
- *Improving Detection of Adolescent Hearing Loss* - Deepa Sekhar, M.D.
- *Epithelial-to-Mesenchymal Transition in Liver Cancer* - Bart Rountree, M.D.
- *Pediatric Critical Care Research and the PALISI network: Trials and Tribulations* - Neal Thomas, M.D., M.Sc.

Awards & New Grant Funding

Ian Paul, M.D., M.Sc. /Lean Birch, Ph.D. (Pennsylvania State University) "Preventing Obesity through Intervention during Infancy"
R01 Grant from NIH
03/15/11-01/31/2016;
\$3,304,735

Laura Duda, M.D. and Cheston Berlin, M.D.
Tourette Syndrome Association Permanent Research Funds
The project will study a possible link between some of the symptoms of Tourette syndrome (tics, attention deficit hyperactivity disorder, obsessive compulsive disorder) and the genotype (DNA) of each individual patient.

Funds are provided by the American Recovery and Reinvestment Act (ARRA) to the National Institute of Neurological Diseases and Stroke (NINDS) and the Massachusetts General Hospital.
05/02/11-09/29/11; \$5,000

Michael Beck, M.D.
"Improving Medical Interns' Adherence to Point-based VTE Protocol by Improving Medical Knowledge Using a Focused VTE Curriculum"
One-year award from Innovation in Education Projects 7 Research, Level II;
\$25,000

Children's Miracle Network Awards July 2011-June 2012

- **Cheston Berlin, M.D. & Andrea Abbe, Nutritionist**
\$1,000 to purchase low protein food lists for PKU patients
- **Kim Kopenhaver Haidet, CRNP, Ph.D.**
"Music and Mother's Voice as a Complement to Sedation for Critically Ill Infants" \$20,000
- **Paul Mueller, M.D.**
"Development of a Novel Psychosocial Measure of Compliance in Diabetic Adolescents" \$17,000

- **Lisabeth Scalzi, M.D.**
"Impact of Social Media and Online Support for Self-Management in Adolescents with SLE"
\$20,000
- **Jeff Shenberger, M.D.**
"Role of mTOR in Oxygen-induced Retinopathy"
\$20,000
- **Mark Schaefer, M.D.**
"Analysis of Clinical Outcomes in the Penn State Hershey Children's Hospital Pediatric Inflammatory Bowel Disease Population"
\$20,000
- **Kenneth Lucas, M.D.**
"Virus and Leukemia Specific Cytotoxic T Lymphocytes Expanded Simultaneously for Post-Transplant Immunotherapy"
\$20,000
- **Zhenwu Lin, Ph.D.**
"Genetic Association and Function of the IL10 and IL10 Signaling Pathway in Pediatric Inflammatory Bowel Disease (IBD)"
\$30,000

Pediatric Neurosurgery selected for study project

Pediatric neurosurgery has been selected as one of several centers to study Chiari malformations and syringomyelia.

Chiari Type I malformations are disorders of the cerebellum in which the inferior portions of the cerebellum (the cerebellar tonsils) are displaced into the spinal canal. A Chiari I malformation can be identified as an incidental finding on MRI scans performed for a variety of unrelated reasons, and it is important to distinguish those that are incidental and require no treatment from those that are causing symptoms and require surgery.

Chiari malformations can cause headaches (particularly those that are occipital in location) and neck pain, scoliosis, or lower brainstem abnormalities such as swallowing dysfunction or apnea, vocal cord weakness leading to hoarseness, weakness or disturbances in gait or coordination, or sensory loss. The Chiari malformation can also interfere with the dynamic flow of cerebrospinal fluid across the cervicomedullary junction with each cardiac cycle, leading to the development of a collection of cerebrospinal fluid

within the spinal cord called a syringomyelia (or syrinx) that can damage the spinal cord. A variety of successful treatments have been proposed for Chiari malformations and syringomyelia although there is still some controversy regarding the natural history of incidental Chiari malformations, which are the best treatments for symptomatic Chiari malformations and under what circumstances, and the long term outcomes with each treatment.

A grant from the Park-Reeves Foundation to Washington University has established the Park-Reeves Syringomyelia Research Consortium, a national consortium to further study Chiari malformations and syringomyelia. The Pediatric Neurosurgery Division at Penn State Hershey Medical Center is proud to be among the groups selected to participate in this long term study. Mark Iantosca, M.D. will serve as the lead investigator for PSHMC on this project.

<http://www.pennstatehershey.org/web/pedsneurosurgery/home>

Presentations

Dr. Prabesh Bajracharya, M.D., neonatology fellow, presented a poster titled, "The Effect of Body Mass Index on Left and Right Ventricular Diastolic Function in 99 Children with Normal LV Mass – A tissue Doppler Study" at the European Society for Pediatric Research meeting in March.

Michael Beck, M.D. presented "Use of clinical vignettes to measure adherence to a point-based VTE risk assessment tool between medical residents and attending" at the 2011 Regional & National SGIM meeting.

Bart Rountree, M.D. presented "Dynamic network modeling of epithelial-to-mesenchymal transition determines Snail1 as critical driver of stemness in liver cancer" at Digestive Diseases Week in Chicago, May 2011.

Presentations at APS/SPR (American Pediatric Society/Society for Pediatric Research) in Denver, CO in May 2011

Jeff Meyers, M.D., neonatology fellow, presented a poster titled, "Influence of Total Parenteral Nutrition on Body Composition in Preterm Infants" at APS/SPR in May.

Ian Paul, M.D., M.Sc.

Platform presentations:

- 1) "Frequency of antibiotic use for pediatric ambulatory care visits for asthma"
- 2) "A randomized trial of nurse home visits vs. office-based care after nursery/maternity discharge"
- 3) "Newborn anticipatory guidance delivered at office based vs. home nurse visits"

Poster presentations:

- 1) "Pre-pregnancy BMI and gestational weight gain patterns do not influence breastfeeding outcomes when confounding factors are considered"

- 2) "Transcutaneous bilirubin testing at newborn home nursing visits"

Jeff Shenberger, M.D.

- 3 platform presentations: 1) "Proteomic Profiling of Hyperoxia-exposed Juvenile Rats" 2) "Mammalian Target of Rapamycin (mTOR) Activation in the Mouse Model of Retinopathy of Prematurity" 3) "Activation of Fibroblast Growth Factor 2 Internal ribosome Entry Site Activity in Oxygen-induced Retinopathy"

Adam Spanier, M.D., Ph.D.

Platform presentation: "Prenatal Bisphenol A is a Risk Factor for Child Wheeze"

Presentations at AACR (American Association of Cancer Research) in Orlando, FL in April 2011

Hien Dang, PhD student in the Rountree Laboratory, presented a poster titled, "Hepatocellular mesenchymal carcinoma cells acquire cancer stem cell characteristics through Snail1"

Barbara Miller, M.D. presented two studies:

- 1) "The Role of TRPM2 Splice Variants in Enhanced Cell Proliferation and Sensitivity to Oxidative-Stress Mediated Apoptosis in Neuroblastoma"
- 2) "Two nonselective calcium channels, TRPC3 and TRPC6, play roles in Erythropoietin Signaling"

Bart Rountree, M.D. presented "The Partial Reversal of Epithelial-to-Mesenchymal Transition by Over-Expression of miR-200b is Incapable of Suppressing Liver Cancer Metastasis to the Lungs"

What's happening in Adolescent Medicine?

The Division of Adolescent Medicine and Eating Disorders

Division Chief:

Richard Levine, M.D.

Faculty:

Jody Brady-Olympia, M.D.
Barbara Gershenson, Ph.D.
Susan Lane-Loney, Ph.D.
Martha Levine, M.D.
Fauzia Mahr, M.D.
Rollyn Ornstein, M.D.

The teen years can be wonderful and challenging at the same time. We are fortunate to have an outstanding Division of Adolescent Medicine and Eating Disorders in our Children's Hospital. The division continues to grow and develop new strategies to care for this population.

- The program offers unique multidisciplinary outpatient treatment for children, adolescents, and young adults with eating disorders such as anorexia nervosa and bulimia nervosa.

- To meet the needs of our community, and to limit hospitalizations, the division also has two different options for day-treatment programs at their primary site at the Briarcrest office building across the street from the Children's Hospital and Medical Center. The first is a day treatment program for older adolescents and young adults. Our most recent program addition is a day treatment program for children and young teenagers. We often partner with the Ronald McDonald House for those

patients and families who travel from far for our programs.

- Over the past three years, with the addition of Dr. Ornstein to our faculty, the Division has been able to offer adolescent reproductive health services to the community.
- Additional specialty services offered include programs to care for transgender adolescents, and teenagers with chronic somatic complaints, such as chronic fatigue and chronic abdominal pain.

Reaching our patients in surrounding communities has become important for all services at the Children's Hospital. To achieve this important goal, this year we

began to offer outpatient outreach services at the Penn State Hershey Children's Hospital outpatient locations in Lancaster, and at Penn State Hershey Medical Group at St. Joseph Medical Center in Reading.

The program accepts referrals from a variety of sources including primary care physicians, specialty physicians, families, therapists and schools.

To make an appointment or to refer a patient to the practice, please call 717-531-7235.

<http://www.pennstatehershey.org/web/adolescentmedicine/home>

Patient Satisfaction

Stephanie Reed, R.N., B.S.N.

Patient Satisfaction is a nurse-sensitive indicator that measures data from ratings provided by patients and families about the services they receive at Penn State Hershey Children's Hospital including our physician, nursing and ancillary staff.

Every pediatric patient is sent a survey approximately one month after discharge. Once completed, the survey is sent to Press Ganey—an outside company whose mission is "...to help transform your health care organization into a high performer. We do this through innovative data collection, analysis, insights and consulting that improve clinical, operational, financial and experiential outcomes." (Source: www.pressganey.com)

Each month, the Children's Hospital Patient Satisfaction Council reviews two Press Ganey scores—the mean and the rank—to track how Children's Hospital is doing in each category from month to month and quarter to quarter.

The mean is the average of all the individual survey scores. The rank is how we compare, in the Press Ganey database, to other like children's hospitals—large academic centers including both freestanding children's hospital and children's hospitals within a hospital. If the rank is low, a large number of like institutions are outperforming us in our care. If the rank is high, we are outperforming like institutions in our care.

An awareness of our patient satisfaction scores is important—we need to know how the care we provide impacts the lives of our patients and their families or caregivers. The PSHCH Patient Satisfaction Council and other staff driven task forces or councils will implement initiatives and changes in practice to improve the quality of the patient care we provide.

With knowledge of our current patient satisfaction scores, you will better understand why these are initiatives are being implemented.

To see how we are doing, click on "Service Excellence and Patient Satisfaction" under the "Quality and Safety Goals/Dashboard" icon on the Infonet. Choose "Current" from the menu under "PS Quarterly Reports." Click on "Children's Hospital."



Patient- and Family-Centered Care Quiz

Question: A patient has a lot of family members and visitors in his room, and it's getting difficult for the nurse and doctors to get to the patient or his equipment. Everyone knows that because of Patient- and Family-Centered Care, we allow families and visitors to be a part of the patient's care, but the medical team is getting frustrated with the situation. What should happen?

- A. Call social work and tell them that the family members are being unruly and need to leave.
- B. Work around the family members and visitors- they have the right to be there because of Patient- and Family-Centered Care and there's nothing we can do about it.
- C. Communicate with the family and visitors and explain the areas that need to be cleared so the medical team has direct access to the patient and his equipment.
- D. Wish the new Children's Hospital was done earlier so that there was more space for everyone.

Answer: The correct answer is C- Communicate with the family and visitors and explain the areas that need to be cleared so the medical team has direct access to the patient and his equipment. Communication is one of the most important parts of Patient- and Family-Centered Care because it sets expectations for families, patients, and visitors. Sometimes we forget that the general public doesn't know what we need to do in order to care for a patient. By simply explaining to the family the need to have direct access for the patient, most families will be only too happy to help you. One way of doing this is to say "I'm happy Johnny has so much support here! I want to give your child the best and safest care possible, and you can all help me do that by making a clear path to the patient's bed and his equipment." Patient- and Family-Centered Care does not mean that the patients and families make the rules. There are guidelines and limits we can set with patients, families and visitors, but it's the way it is presented that makes a difference.

If you have any questions about Patient- and Family-Centered Care or how to deal with specific situations, please contact Debbi Fuhrer at x281216 or dfuhrer@hmc.psu.edu.

Quality & Safety

Steve Wassner, M.D.

The Children's Hospital Quality and Safety team is a multidisciplinary team that has accepted responsibility for the evaluation and coordination of safety and quality throughout the Children's Hospital. Opportunities for improvement are identified by a variety of means including focused review of

current programs, member identified initiatives and concurrent evaluation of Children's Hospital Occurrence reporting. We rely heavily on input from all the members of the Children's Hospital family and, in turn, seek to inform and educate our entire staff on the large number of quality initiatives that take place throughout

our organization. Among the areas that our committee has worked on in the recent past are our initiatives on pain reduction; decreasing weight errors; improving influenza vaccination rates; decreasing central line blood stream infection rates; central pharmacy preparation of infusion

medications. We invite all members of the Children's Hospital team to join us at our semi-monthly committee meetings as well as our quarterly Town Hall meetings to both learn more about our quality initiative and to help us move ahead in our future plans.

PSHCH Outreach

Douglas Field, M.D.

Children's Hospital has three new outreach specialty clinic sites that have opened in the last few months—Penn State Hershey Medical Group—Camp Hill; Penn State Hershey Medical Group at St. Joseph Medical Center (Reading), and Penn State Hershey Children's Hospital—Lancaster Outpatient.

As part of my role as Vice Chair of Provider Communications, I spend two to three days per

month visiting various referring pediatric and family practice offices.

Feedback from providers and patients regarding the outreach clinics has been very positive, namely the benefit of having improved access to care for patients in their local communities.

A new Children's Hospital directory is currently in the works and will be completed soon. New directories will be handed out at site visits and mailed

directly to referring providers.

If you are a referring provider who is interested in learning more about what Children's Hospital can offer you for your patients, as a complement to your own services, I'd be happy to set up a time to visit you in your office. Please contact Missy Myers at 717-531-1043 to make arrangements.



Changes in Penn State Hershey Children's Heart Group Leadership

Effective April 4, 2011, Stephen Cyran, M.D. stepped down as the division chief for the Division of Pediatric Cardiology/Children's Heart Group. Howard Weber, M.D. has agreed to assume the role and responsibilities of interim division chief. Since beginning his role at division chief in 1994, Dr. Cyran led his division to become one of the most

extensive pediatric cardiology outreach programs in the country.

Dr. Cyran will continue in his role as Vice Chair for Outreach for the Department of Pediatrics.

Thank you, Dr. Cryan, for your many years of dedicated service as division chief to Pediatric Cardiology and the Children's Heart Group!



Steve
Cyran, M.D.



Howard
Weber, M.D.

Fun in the Sun!

Summertime offers people of all ages plenty of opportunity for outdoor activities. Below are some tips and information links to keep in mind so you and your loved ones can enjoy safe fun in the sun!



New Faces in Pediatrics



September 2010



Debra Byler, M.D. Assistant Professor, Pediatric Neurology



Sinisia Dovat, M.D. Professor, Pediatric Hematology/Oncology



John Kuttesch, M.D., Ph.D. Professor, Pediatric Hematology/Oncology



Myra Popernack, CRNP Instructor, General Pediatrics



Cheryl Tierney, M.D., MPH Assistant Professor, Development & Rehabilitation



Yuliya Zinger, M.D. Assistant Professor, Pediatric Neurology



Rowena Rivera, M.D. Assistant Professor, Pediatric Neurology

October 2010



Punit Jhaveri, M.D. Assistant Professor, Pediatric Gastroenterology



Sarah Iriana, M.D. Associate Professor, General Pediatrics

December 2010



Alexandra Horwitz, M.D. Assistant Professor, Pediatric Allergy & Immunology

March 2011



Nishant Shah, M.D. Assistant Professor, Pediatric Cardiology

April 2011



Ashley Nippert Pediatrics and Med/Peds Residency Coordinator

Pool Safety

The U.S. Consumer Product Safety Commission (CPSC) estimates each year:

- Nearly 300 children younger than five drown in swimming pools and spas
- More than 3,000 children under age five go to hospital emergency rooms due to non-fatal submersion injuries with an unknown number resulting in permanent disability

For more information, visit: <http://poolsafely.gov>

Sun Safety

Applying sunscreen:

- Cover all exposed areas-- face, nose, ears, feet, hands, and the backs of knees.
- Apply sunscreen 30 minutes before going outdoors.
- Use sunscreen even on cloudy days.
- Reapply sunscreen every 2 hours.

<http://www.healthychildren.org>

Kudos!

- ★ Congratulations to the following faculty members on their recent promotions!

J. Brian Clark, M.D., Associate Professor of Pediatrics & Surgery
Division of Pediatric Cardiology, Pediatric Cardiothoracic Surgery

Rollyn M. Ornstein, M.D., Associate Professor of Pediatrics
Division of Adolescent Medicine & Eating Disorders

Ian M. Paul M.D., M.Sc., Professor with tenure of Pediatrics & Public Health Sciences
Division of General Pediatrics

C. Bart Rountree, MD, Associate Professor of Pediatrics & Pharmacology, Division of Pediatric Gastroenterology

Neal J. Thomas, MD, MSc, Professor of Pediatrics & Public Health Sciences, Division of Pediatric Critical Care Medicine

- ★ Two General Pediatrics division faculty members won awards at the 2011 Pediatric Academic Societies (PAS) meeting in Denver, CO in May.

Adam Spanier, M.D., Ph.D. won the *Michael Shannon Research Award*. This award is granted to the best abstract in the areas of pharmacology/ toxicology, drug reactions/ events, substance abuse, environmental health, disaster preparedness/ response and emergency medicine. More information about this award can be found at: http://www.ambpeds.org/aboutus/about_awards_Michael_Spanier.cfm

Dr. Deepa Sekhar won the The Bright Futures Young Investigator Award Program funds projects aimed at enhancing the effectiveness and evidence base for health

supervision in primary care. The Bright Futures Young Investigator Award Program is funded by the Health Resources and Services Administration/ Maternal and Child Health Bureau (MCHB) in cooperation with the American Academy of Pediatrics.

- ★ Congratulations to our Children's Hospital physicians named as Best Doctors® in America! To view the full list, go to <http://www.pennstatehershey.org/web/guest/home/bestdoctors>

- ★ **Michael Beck, M.D.** was awarded the 2010 Society of Distinguished Educators Junior Faculty Teaching Award

- ★ **Cheston Berlin, M.D.** was chosen by the American Academy of Pediatrics (AAP) to participate in their Oral History Program. Through its Oral History Program, the Pediatric History Center conducts interviews with selected pediatricians and other leaders in the advancement of children's health care, preserving the recordings and transcripts. The Center preserves and organizes these materials to make them available for use by Academy members, staff, and outside researchers. Dr. Berlin was chosen for his activities as a member and chair of the Committee on Drugs of the AAP and for his contributions in pediatric pharmacology. The interview was conducted by Ian Paul of the Division of General Pediatrics.

- ★ **Neal Thomas, M.D., M.Sc.** was selected as the recipient of the 2011 Samuel F. Hinkle Young Investigator Award.

Ranked among the BEST!

Penn State Hershey Children's Hospital has been recognized in U.S. News and World Report's 2011-2012 *Best Children's Hospitals* rankings.

The Children's Hospital previously was included in the 2008 Best Children's Hospitals ranking.

"We salute Penn State Hershey Children's Hospital," said Health Rankings Editor Avery Comarow. "The goal of the Best Children's Hospitals rankings is to call attention to pediatric centers with the expertise to help the sickest kids, and Penn State Hershey Children's Hospital is one of those centers."

The new rankings recognize the top 50 children's hospitals in 10 specialties: cancer, cardiology and heart surgery, diabetes and endocrinology, gastroenterology, neonatology, nephrology, neurology and neurosurgery, orthopedics, pulmonology, and urology. Seventy-six hospitals are ranked in at least one specialty.

"This is an achievement earned by our highly skilled and caring pediatric staff," said Craig Hillemeier, M.D., medical director, Penn State Hershey Children's Hospital. "It is a result of the commitment that all of our faculty and staff make every day to provide excellent care to the children of central Pennsylvania."

For the full rankings and methodology, visit www.usnews.com/childrenshospitals.





PENNSTATE HERSHEY
 Children's Hospital

pennstatehershey.org/childrens