

Penn State Hershey Children's Hospital Newsletter

May 2012
Issue 6



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Ronald McDonald recently visited Children's Hospital patients and their families.

pennstatehershey.org/childrens

From the Chair's Office

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

Welcome to the May 2012 issue of the Children's Hospital Newsletter. This issue highlights Pediatric Research Day. This event continues to be a very special one for the Department of Pediatrics and the entire Penn State Hershey Children's Hospital. The number of investigators within the department and throughout the Institution participating in our research day has steadily grown over the last decade. The participants include virtually every department and institute within Penn State Milton S. Hershey Medical Center, as well as many

participants from University Park. The increased participation has led to a larger and more appropriate venue at the Hershey Lodge where the most recent event was held on April 5, 2012. We all owe a sincere thanks to the research committee that organized this year's activities, particularly **Lisa Scalzi, M.D.**, and **Bart Rountree, M.D.**, who led the efforts. The ability to create new methods of diagnosis and management of childhood diseases is a truly noble venture. The spirit of healing children is alive and well at Penn State Hershey Children's Hospital.

Pediatric Research Day

On April 5, 2012, Pediatric Research Day brought together more than 110 investigators from eighteen Penn State departments. The research presented covered a broad range of topics from bioengineering and cell biology to studies focused on common clinical problems encountered in a pediatric practice. More than ninety abstracts were submitted, with eighty-one posters, and nine oral abstract presentations during the course of the day.

Highlights included a keynote address from Alan Guttmacher, M.D., director of the Eunice Kennedy Shriver National Institute of Child Health and Human Development at the National Institutes of Health. Dr. Guttmacher delivered a transformative and provocative address that focused on the future of pediatric research in the post genomic era. He provided a glimpse into the future of pediatric practice where patients will receive personalized therapies and counseling based on their genomic medical record.

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Pediatric Research Day (continued from page 1)

Bart Rountree, M.D., pediatric gastroenterology and nutrition, provided a review of the top nine recently published basic science manuscripts from Children's Hospital. Afterward, five basic science abstracts were presented and **Wei Ding, Ph.D.**, was awarded the Basic Science Young Investigator Award for his work titled, "miR-200b Restoration and DNA Methyltransferase Inhibitor Block Lung Metastasis of Hepatocellular Carcinoma with Mesenchymal Phenotype." Lisa Scalzi, M.D., pediatric rheumatology, provided a concise review of the top eighteen recently published clinical manuscripts from Children's Hospital. Following Dr. Scalzi's presentation, **Ronak Naik, Ph.D.**, was awarded the Clinical Science Young Investigator award for his work titled, "Stress Echocardiography: A useful tool in children with Aortic Stenosis."

Research from the ninety abstracts presented during the course of the day included collaborative projects from fifteen national and international institutions. In summary, Pediatric Research Day provided a comprehensive review of current research efforts at Penn State Hershey Children's Hospital. We'd like to extend special thanks to the talented support team, especially **Heather Stokes**, and all of the participants who made it a success. We all look forward to the 2013 Research Day next spring!

A complete listing of presentations and additional photos of the event can be viewed at pennstatehershey.org/web/pedsresearchday.

Make-A-Wish Foundation

The Make-A-Wish Foundation of Philadelphia and Susquehanna Valley collaborates with Penn State Hershey Children's Hospital to provide wishes for children and families struggling with life-threatening illness. In this way, Make-A-Wish complements the other services that our children and families receive from other children's philanthropies. The "wish" provides a healing respite for these children and their families. Our local Make-A-Wish chapter provides more than 300 wishes annually for children in the southeastern and south-central Pennsylvania ten-county region. Children between the age of two-and-a-half and eighteen years with progressive or degenerative disease qualify for wish fulfillment, as long as the disease is deemed life-threatening by the referring physician.

It is our goal that all our children suffering from life-threatening disease are able to experience the healing powers of having their particular wish granted and shared with their families. Referrals can be made through any of our social workers, care coordinators, or directly by providers. Brochures and eligibility forms are available in the pediatric critical care medicine office. Any questions or concerns regarding eligibility can be directed to Steve Lucking, M.D., (717-531-5337) or to Paulette Battenfelder at the Lancaster chapter office (mpbattenfelder@philadelphia.wish.org).

The Make-A-Wish Foundation receives all of its financial support through philanthropy and fundraising, with no state or federal government support. Numerous fundraisers annually support the mission. Perhaps the signature fundraiser for Make-A-Wish in the Susquehanna Valley is the annual Mother's Day Truck Convoy, in its twenty-third year this May. The event is a carnival atmosphere with clowns, food, games, live music and various other attractions. Penn State

Hershey Children's Hospital has a presence at the convoy with a display, providing information and fun handouts for children and families. This is a great opportunity for networking in the Lancaster region, meeting numbers of grateful former patients and families, enjoying mid-May weather and being part of a very moving experience as one of the largest truck convoys in the nation takes off with wish children aboard that afternoon.



What's happening in Pediatric Critical Care Medicine?

Penn State Hershey Pediatric Critical Care Medicine
pennstatehershey.org/web/picu/home

Division Chief:

Steven Lucking, M.D.

Faculty:

Gary D. Ceneviva, M.D.; Michael Dettorre, D.O.; E. Scott Halstead, M.D., Ph.D.; Toah Nkromah, D.O.; Robert F. Tamburro, Jr., M.D., M.Sc.; Neal J. Thomas, M.D., M.Sc.

Penn State Hershey Pediatric Critical Care Medicine is in its twenty-second year, with six full-time and one part-time faculty, and a seventh full-time faculty member who begins July 1. The effort is supported by four pediatric nurse practitioners, a research coordinator, a quality outcomes coordinator, and a staff assistant.

The primary clinical mission of the division is the Pediatric Intensive Care Unit (PICU). This multidisciplinary, medical-surgical intensive care unit admits approximately 700 patients annually of which 40-45 percent are medical, 45-50 percent are post-operative surgical, and 10-15 percent are victims of trauma. Penn State Hershey Children's Hospital PICU is a member of Virtual PICU, a data sharing collaborative sponsored by the Children's Hospital Association. As our primary quality outcomes measure, we track adjusted mortality rate using two scoring system tools available through virtual PICU, the pediatric index of mortality (PIM 2) and PRISM 3. Compared to forty-three other institutions using these tools, the Children's Hospital PICU median risk and population distribution among the highest risk quartiles shows that our severity of illness is much higher than our peers. Outcomes evaluation using the ratio of observed to expected mortality, adjusted by severity of illness, shows that the Children's Hospital PICU mortality rate is significantly lower than nationwide peers using this risk adjusted tool.

Quality indicators of common ICU morbidities show our accidental extubation rate to be among the lowest in the nation, central line associated blood stream infections are (CLABSI) below the Highmark and the Medical Center's target rate, and ventilator associated pneumonia rate is very low. Progress is being made with regard to catheter associated urinary tract infections (CAUTI) which remain above target.

The Home Ventilator Program is approaching twenty years of service to technology dependent children and presently manages the care of eighty children within our region. The division is also active clinically in providing a number of services outside the usual PICU population including central venous catheterization, deep sedation, thoracostomy tube placement, and bronchoscopy.

Division research includes a number of NIH and FDA funded studies, as well as being primary investigator for

other multicenter and local studies. In addition, the division participates as a contributing center in fourteen multicenter studies.

From the teaching perspective, the division has a fellowship in pediatric critical care medicine and electives for students and residents, as well. The team has just completed work on a new textbook of pediatric critical care medicine, it directs the institution's PALS training, provides research advising and scholarly oversight to pediatric and subspecialty trainees, as well as course instruction for house staff from multiple departments.

Future initiatives of the division include re-engineering PICU workload to develop greater infrastructure support and alleviate the demands of long faculty shifts, enhancing PICU nursing autonomy and collaboration, and developing models for institutional accountability for the care of children. The move into the new Children's Hospital, designed with multiple levels of PCCM division design support, is scheduled for December 3, 2012.



Lucking



Ceneviva



Dettorre



Halstead



Nkromah



Tamburro



Thomas

Children's Hospital 2012 Fundraising Event Calendar

Highmark Walk for a Healthy Community
May 19, 2012
Harrisburg Area Community College
walkforahealthycommunity.org



Children's Miracle Network Telethon
June 9-10, 2012
WITF Public Media Center
pennstatehersheycmn.org

Four Diamonds 5K Run/Fun Walk
October 7, 2012
fourdiamonds.org

Children's Miracle Network Ball
November 17, 2012
Hershey Lodge
pennstatehersheycmn.org

Children's Miracle Network Fashion Show
December 7, 2012
The Hotel Hershey
pennstatehersheycmn.org



Perinatal Services at Penn State Hershey Children's Hospital

For expecting parents, receiving the news that an unborn child may have a serious congenital anomaly can be a frightening and overwhelming experience. In a short period of time, parents are challenged to both cope with the new diagnosis and to work with their obstetric provider to access specialists who may be needed to care for their baby's needs.

The Perinatal Services at the Penn State Hershey Children's Hospital have been developed to assist parents, physicians, and specialists in the coordination of services that are available for the care of these special newborns. As the Perinatal Services Coordinator, Pat Avakian, M.S.N., R.N.C.-O.B., works closely with these families to make the medical journey more manageable and less stressful. By helping parents navigate through the process, the perinatal coordinator ensures that patients and families are seamlessly connected to the appropriate advanced resources of Penn State Hershey Children's Hospital. As

a result of this concierge service, families are relieved of some of the administrative burden associated with complex medical needs, and consequently are able to focus more attention on the health of the mother and baby.

In addition to providing this valuable service to the families, the program supports the lines of communication between referring physicians and the specialists at Children's Hospital. The perinatal coordinator serves as the primary contact person for all involved physicians, thus providing a centralized and readily available resource.

Penn State Hershey Perinatal Services provides the basis for a true health care partnership of families, referring physicians, and specialists at Penn State Hershey Children's Hospital.

To learn more about the perinatal services, please contact Pat Avakian at 717-531-1361 or pavakian@hmc.psu.edu.

Kudos

R.L. Levine, M.D., received the 2012 Dr. Susan R. Rankin Award for Leadership, Integrity and Outstanding Contributions to Pennsylvania State University. The award is given to individuals who demonstrate leadership in supporting students who are members of LGBTQQIA communities, integrity in the promotion of a positive identity for LGBTQQIA students throughout the University and local community, and contributions to the support services for LGBTQQIA students, faculty and staff at Penn State.

Deborah Fuhrer, B.S., M.S., is the recipient of the 2012 Steven and Sharon Baron Leadership Award of Penn State Hershey Medical Center in the non-supervisory category. She will be recognized during the employee recognition celebration on Wednesday, May 23, 2012.

Adam Spanier, M.D., Ph.D., M.P.H., received the 2012 Eastern Society for Pediatric Research Faculty Young Investigator award at the annual meeting held in Philadelphia, March 30-April 1, 2012.

Patricia Silveyra, Ph.D., has been awarded an American Thoracic Society (ATS) Minority Trainee Travel Award (MTTA) of \$1,425 to attend the annual meeting and one year of ATS Trainee Membership. **Melissa Grageda, M.D.** received an ATS Trainee Travel award of \$500. The ATS annual meeting is May 18-23, 2012 in San Francisco.

Penn State Hershey Center for the Protection of Children

Penn State Hershey Center for the Protection of Children (PSHCPC) was introduced to the Penn State community on March 22 with an inaugural lecture by Richard Krugman, M.D., a world renowned expert on child abuse. Dr. Krugman, vice chancellor for health affairs at the University of Colorado and dean of the University of Colorado School of Medicine, gave a historical perspective to pediatric residents at noon, and an afternoon Grand Rounds lecture on "gaze aversion," the tendency for people to avoid seeing and confronting disturbing issues such as child abuse and neglect. The day's events were followed by a reception attended by Penn State Hershey faculty and staff, as well as child protection stakeholders from throughout the central Pennsylvania region. Penn State Hershey Center for the Protection of Children has been developed to enhance the clinical response to child victims, increase the nation's capacity to train subspecialists in child abuse pediatrics, and advance research in the field of child abuse. First steps in the endeavor include the addition of a child psychologist specializing in traumatic stress, and a program coordinator for the child protection team, under the direction of Andi Taroli, M.D. In addition, Kate Crowell, M.D., and Laura Duda, M.D., will implement a primary care program for the comprehensive evaluation of children in foster care.

PSHCPC plans to participate in the bi-annual Penn State Hershey International Conference on Abusive Head Trauma, and to assist in Dr. Mark Dias' work to convene a consortium of national experts to examine the scientific evidence concerning the diagnosis of abusive head trauma. PSHCPC also looks forward to partnering with other experts at Pennsylvania State University to increase interdisciplinary research efforts. Through all these activities, the PSHCPC hopes to improve the lives of children and families by improved diagnosis, treatment, and advances made in the prevention of child maltreatment.



Highlight on Service Excellence: Pediatric Surgery

Stephanie Reed, B.S.N., R.N., co-facilitator of the Children's Hospital Patient Satisfaction Council

Each month at the Penn State Hershey Children's Hospital Patient Satisfaction Council meeting, a council representative from one unit, area or division presents efforts to improve outcomes related to patient satisfaction. In March, Lynn Simmons, M.S.N., R.N., C.R.N.P., presented pediatric surgery's commitment to service excellence in response to two identified opportunities for improvement by the patients and families they care for.

First, how well is a child's pain controlled? Driven and supported by Robert Cilley, M.D., medical director, Penn State Hershey Pediatric Trauma Program, no pediatric patient is to leave the operating room without an acute pain management plan—a plan to manage mild, moderate, and severe pain, and tailored to the patient's specific needs or medical plan. Also, cases when the acute pain management plan does not control the pain or meet the patient's expectations will be handled as a medical priority. Residents should be notified immediately. Attending physicians should be notified if there is any compromise to service excellence.

The second area to address is how the doctors' concern for questions and worries are perceived. Whether

scheduled for surgery or admitted emergently through the clinic or the emergency department, patients will receive a welcome pamphlet from the pediatric surgery team. Content includes an introduction to the team members and their roles as well as a pledge to "consistently strive to provide your outstanding care in an environment of open communication and compassion." Peter Dillon, M.D., chairman, Penn State Hershey Surgery, furthermore supports this endeavor by inviting patients and families to participate in the Press Ganey patient satisfaction survey, explaining the value of their feedback and comments. An area is also provided for patients and families to write questions for physicians.

Thank you to the pediatric surgery team for sharing the start of your journey as we strive to deliver excellent medical, nursing, and ancillary care and support to our patients and families. We commend you for your dedication and commitment! For more information on these initiatives, please contact Dr. Robert Cilley or Lynn Simmons.



New Children's Hospital

- Wall framing is complete on the ground through fourth floors
- Tinted primer applied on first, second, and fourth floors with touch-ups occurring on the ground floor
- Fans on roof installed for ducts and lighting protection
- Final roof detailing and coating began on the first and second floors and canopy roofs
- Ceramic tile is complete on ground floor and nearly complete on the first and second floors. Installation started on fourth floor



See the waterfall wall lit up at night on the LIVE construction camera!
pennstatehershey.org/web/childrens/aboutus/webcam



Main entrance
view from
second floor



Main entrance



Café & stage area



Café dining area



Patient Satisfaction is our Passion

Stephanie Reed, B.S.N., R.N., co-facilitator of the Children's Hospital Patient Satisfaction Council

Following last winter's Town Hall meeting, the Penn State Hershey Children's Hospital Patient Satisfaction Council has been on a mission to help others embrace patient satisfaction as a passion. The team, made up of more than fifty interdisciplinary team members—nurses, physicians, child life, care coordination, social work, environmental health and more—kicked off the year by defining their purpose and implementing operational guidelines. Each member is provided a "tool kit" to use in educating others about utilizing patient satisfaction scores to help us reach our goals in service excellence as individuals, areas or divisions and as a united Children's Hospital team. Each "tool kit" includes information about our patient satisfaction survey—Press Ganey, how to interpret and find the results, up-to-date patient satisfaction scores, common themes in current patient comments, and a template to report out, as well as disseminate information each month.

What can you do to help?

Make Service Excellence part of your everyday communication and practice. Discuss patient satisfaction scores and efforts to provide service excellence at least once a month in your unit, area or division meetings.

Stay connected. If you haven't heard from your area's representative, ask him or her how you are doing and what's happening.

Communicate. If you have an issue you are having difficulty overcoming, look to others for support. Begin with a referral through your representative to the Children's Hospital Patient Satisfaction Council. One of our purposes is to facilitate communication and implementation of initiatives to improve outcomes related to patient satisfaction.

We are here for you! For more information or support, please contact, Ron Williams, M.D., Ashley Kane, M.S., C.C.L.S., Debbi Fuhrer, B.S., M.S., or Stephanie Reed, B.S.N., R.N.



To learn about volunteer opportunities and how Ronald McDonald House Charities® of Central PA helps Children's Hospital patients and families, please visit rmhc-centralpa.org

Recent Presentations & Publications

PRESENTATIONS

Deana Deeter, C.R.N.P., C.H.P.P.N., C.P.O.N., gave a poster presentation titled, "Reducing CRBSIs in Pediatric Oncology: A Nursing Quality Initiative," at the 2012 Creating Connections Conference in St. Louis, March 11-14, 2012.

Cheston Berlin, M.D., was unanimously chosen by the Academy of Breastfeeding Medicine (ABM) Board of Directors to be the Founders Lecturer at the ABM annual meeting in Chicago, October 11-14, 2012.

Ian Paul, M.D., M.Sc., presented "Cough and Cold Medicines for Children: What Should We Tell Parents this Winter?" for Pediatric Grand Rounds at Oakland University William Beaumont School of Medicine, Royal Oak, MI, January 3, 2012.

Dr. Paul also presented "Primary Prevention of Obesity Through Infancy-Based Interventions" at the Pennsylvania State University Prevention Center Seminar Series in University Park on February 29, 2012.

Melissa Grageda, M.D., pediatric critical care fellow, presented "Surfactant Protein A2 as a DNA Methylation Marker in Lung Cancer" at Graduate Medical Education Resident/Fellow Research Day on March 9, 2012.

Howard Weber, M.D., presented an invited lecture, "Bedside Echo Guided Atrial Septostomy: Should this be the Approach of Choice," at the Pediatric Interventional Cardiac Symposium in Chicago, IL, April 15-18, 2012.

Chandrika Gowda, M.D., fellow in pediatric hematology/oncology presented her poster, "Casine Kinase 2 Inhibition Sensitizes Leukemia to Conventional Chemotherapy Treatment by Increasing the Tumor Suppressor Activity of Ikaros," at the Penn State Hershey Resident/Fellow Research Day, March 9, 2012.

PUBLICATIONS

Todoric K, Lehman E, **Beck MJ**. Using Clinical Vignettes to Evaluate VTE Protocol Adherence. *J Clin Med Res* 2012;4(2):87-94.

Paul IM. Therapeutic options for acute cough due to upper respiratory infections in children. *Lung* 2012; 190: 41-4.

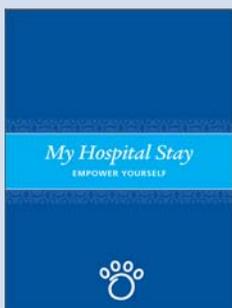
Paul IM, Beiler J, Schaefer E, Hollenbeak CS, Alleman N, Sturgis SA, Yu S, Camacho FT, Weisman CS. A randomized trial of nurse home visits vs. office-based care after nursery/maternity discharge. *Arch Ped Adolesc Med* 2012; 166: 263-270.

Paul IM, Yin HS. Out with teaspoons, in with metric units: Pediatricians urged to prescribe liquid medications in mL only. *AAP News* 2012; 33: 10.

Silveyra P, Floros J. Air pollution and epigenetics: effects on SP-A and innate host defence in the lung. *Swiss Med Wkly* 2012;142:w13579.

The following publication was identified as being of special interest to the drug development sector by Global Medical Discovery Series, Target Selection Team, and was listed as a key scientific article in a recent issue of the series. Global Medical Discovery service alerts the scientific community to breaking journal articles considered to be of importance to the drug discovery process. **Phelps DS, Umstead TM, Quintero OA, Yengo CM, Floros J**. In vivo rescue of alveolar macrophages from SP-A knockout mice with exogenous SP-A nearly restores a wild type intracellular proteome: actin involvement. *Proteome Sci*. 2011 Oct 28;9:67. tinyurl.com/6mpx7ka

Care Journals for Patients and Families



We are raising the bar for our patients and families. We are asking them to partner with us in their care during their hospitalization. Starting May 21, we will hand out Care Journals (pictured) to each of our patients and families to use during their stay. The effort is to empower the patients and their families to become more engaged in their care, to take responsibility and accountability for

their care, and to truly become a more active member of their health care team. This Care Journal was designed by the adult and pediatric Family Advisory Councils.

In the Care Journal, patients and families are guided through their experience with questions that allows them to learn more about their team and the expectations of themselves:

- Who is my nurse (day shift, night shift)?
- Who is my doctor (residents versus attending)?
- What are my medications (home medications and new medications)?
- What are the goals for the day?
- What questions do I have before I am discharged?
- What do I need to do when I get home?

We hope ALL staff, no matter their position, can remind patients and families that they have the right and responsibility to partner with us in the patient's care.



Education Calendar

Penn State Hershey Children's Hospital Presentations

May 15, 2012, 7:30 a.m. Lecture Room B

Update on Pediatric Advance Life Support

Robert Tamburro, M.D., professor of pediatrics and public health sciences, pediatric critical care medicine

May 22, 2012, 7:30 a.m. Lecture Room C - Research Series

Prenatal Bisphenol A Exposure is Associated with Decreased Child Lung Function

Adam Spanier, M.D., Ph.D., M.P.H., assistant professor of pediatrics and public health sciences

Pulsatile perfusion during pediatric cardiopulmonary bypass improves cerebral oxygen saturation and blood flow pulsatility

Xiaowei William Su, M.D./Ph.D. student, Penn State Hershey College of Medicine

miR-200b restoration and DNA methyltransferase inhibitor block lung metastasis of hepatocellular carcinoma with mesenchymal phenotype

Wei Ding, M.D., Ph.D., faculty, senior research associate (associate professor rank)

May 29, 2012, 7:30 a.m. Lecture Room C

CPC...an Unknown Case

John Alexander, D.O., pediatric resident

May 30, 2012, noon, C6805 - Departmental Research Series

Emotional processing in anorexia nervosa

Fauzia Mahr, M.D., psychiatry, child and adolescent psychiatry

June 27, 2012, noon, C6805 - Departmental Research Series

Gustavo R. Nino Barrera, M.D., pediatric pulmonology

Announcements

New Face in Pediatrics



Vickie Fazio, C.C.R.N., M.S.N., N.N.P.-B.C., joined Penn State Hershey Newborn Medicine in March 2012.

- The **2012 Penn State College of Medicine Commencement** is Sunday, May 20, at 1:00 p.m. in Founders Hall at Milton Hershey School. The commencement speaker is Catherine D. DeAngelis, M.D., M.P.H., Editor-in-Chief Emerita of *JAMA*, the Journal of the American Medical Association; Professor, The Johns Hopkins University School of Medicine.
- **Congratulations to the following Penn State Hershey pediatrics faculty on their recent promotions:**
 - Douglas Field, M.D.** – professor of pediatrics
 - Keith Williams, Ph.D.** – professor of pediatrics
 - Tracy Fausnight, M.D.** –associate professor of pediatrics
 - Kathryn Crowell, M.D.** –associate professor of pediatrics
- **Jamie Boyer, B.S.N., R.N.**, clinical head nurse for seventh floor pediatrics hematology/oncology, welcomed Easton Jack Colton on April 16 at 6:10 p.m. Easton was seven pounds, nine ounces and nineteen inches long.
- Past and current issues of the **Children's Hospital newsletter** are available online at pennstatehershey.org/web/childrens/patientcare/patientresources.