Graduate Medical Education
2012-2013 Annual Report
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Children’s Mercy, based in Kansas City, Mo., is one of the United State’s leading free-standing independent pediatric medical centers, offering 354 licensed beds, more than 40 pediatric subspecialty clinics, a Level I pediatric trauma center, and a Level IV neonatal intensive care unit. We are consistently ranked among the best children’s hospitals in the nation by U.S. News and World Reports, and we were the first hospital in Missouri or Kansas to receive the prestigious Magnet designation for excellence in patient care from the American Nurses Credentialing Center – an honor we have received three consecutive times. In academic affiliation with the University of Missouri-Kansas City, our more than 400 faculty members provide clinical expertise, leadership in pediatric medical education to the physicians and nurses of the future and innovative cutting-edge pediatric medical research to discover the treatments and cures of tomorrow. Children’s Mercy is also nationally recognized for innovation in creating a family-centered environment that is focused on the unique needs of hospitalized children and their families.

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Educating Future Pediatric Care Experts

Our education programs of Children’s Mercy are flourishing and today there is more interest than ever in our fellowship programs, our residency program, and our opportunities for medical student electives and sub-internships. Our residency program graduates continue to have board passage rates well above the national average, and our pediatrics clerkship remains one of the most highly rated by students from the University of Missouri-Kansas City School of Medicine.

We take pride in training the next generation of pediatric specialists and researchers with lessons and techniques not practiced in other pediatric hospitals. We emphasize the importance of preparing our residents and fellows to be the best in their field, redefining pediatric medical education with every step.

The vision and commitment of Children’s Mercy leadership to advancing pediatric medicine is strong and extends throughout the hospital, providing opportunities for our fellows, residents and medical students to pursue their interests academically, clinically, and through research.

“The world of medical education is ever evolving. However, our overall goal remains to provide an outstanding educational experience in a culture that respects and supports the role of the learner.”

Jane Knapp, MD
Chair, Department of Graduate Medical Education
Staff Highlights

Pam Emert joined the staff in summer 2012 as the Administrative Assistant III. Since that time, she has become an invaluable resource for GME Leadership.

Amanda Larson Walls transitioned from her position as the Pediatric Residency Coordinator to become the Medical Student Coordinator.

Jackie Ware-Sodsod and Brooke Villigram joined the Pediatric Residency Program as Coordinators. Both bring exciting energy from their past experiences in higher education.

Kerrie Jordan has been named to the Specialty Review Board of TAGME in the Specialty of “Program Administrators of ACGME Programs.” Kerrie was on the original task force to create the tools for certification. She will serve a three-year term with the possibility of election to serve more than one term.

Teresa Flournoy, Program Coordinator of Allergy/Immunology, Cardiology, Nephrology and Emergency Medicine Fellowships, was elected to an at-large position of the APPD’s Coordinator’s Executive Committee. She presented a workshop, entitled “Putting the Pieces Together: Building Your Team,” at the Spring APPD meeting. She was also appointed to the Specialty Review Board of TAGME in the Specialty of Neonatal-Perinatal Medicine.

Tiffany Chow joined the team as a Fellowship Program Coordinator. She is working with Neonatal-Perinatal, Infectious Disease, Radiology and Dermatology Fellowships. She is also working on a new Hospitalist Medicine Fellowship that will be launched in July 2014.

New Graduate Medical Education Vice Chair Settles In

Just over a year and a half ago, Susan Hathaway, PhD, accepted the position of Vice Chair of the Department of Graduate Medical Education. Hathaway came to Children’s Mercy with more than 25 years experience in education, most recently as the Manager of Student Affairs at the University of Missouri-Kansas City (UMKC) School of Medicine.

Hathaway has been excited to share her experience from the past 23 years at UMKC with the department, residents, fellows and staff at Children’s Mercy. Hathaway is visionary leader, since the time she began her post graduate work, she knew she wanted education to be her focus.

“I want to have an impact on the research of medical education, specifically leadership and how change happens,” says Hathaway. She is a leader who thrives on managing the complex process of change, either entering into it, or managing through it.

In the meantime, Hathaway has been busy learning the Children’s Mercy curriculum first hand. Her philosophy is that, if there is a learning opportunity for trainees that she may possibly be involved with in the future, she is attempting to attend it first. This makes for a busy schedule, given the number and breadth of trainee courses presented each year.

Susan has brought an exciting new dimension to our team. She combines the skills of manager and educator well and brings creative solutions to the challenges we face in medical education.

Jane Knapp, MD
Chair, Department of Graduate Medical Education

Staff Achieve TAGME Certification

Kelly Laurent and Teresa Flournoy became certified Training Administrators of Graduate Medical Education (TAGME) in 2013.

Following more than three years of experience, passing a challenging exam and submitting a thorough report on their application of regulations, both Laurent and Flournoy are now certified.

Laurent specialized in Otolaryngology – Ear, Nose and Throat (ENT) and Flournoy specialized in Neonatal-Perinatal Medicine.
Children’s Mercy Partners with University in Mexico

Continuing to fulfill its vision to be an international leader recognized for advancing pediatric health, Children’s Mercy signed an agreement with a university in Cuernavaca, Mexico, The Universidad Autonoma del Estado de Morelos (UAEM).

“This agreement is helping elevate our hospital’s academic profile with enhanced research and educational programs,” says Ivett Shah, Director of Children’s Mercy International Services.

As part of the new UAEM agreement, pediatric residents from the university’s affiliated pediatric hospital will rotate at Children’s Mercy starting October 2013. Children’s Mercy will also help the University of Kansas Medical School host medical students from Cuernavaca who are spending a social service year in Kansas City.

Shah says the agreement will deeply benefit both Kansas City and Cuernavaca. “The exchange of knowledge, understanding and skills will benefit both of our institutions. We are especially pleased to be hosting the residents because there’s no better way to build cultural understanding than through personal relationships developed in exchange programs.”

“ This agreement is helping elevate our hospital’s academic profile with enhanced research and educational programs”

Ivett Shah
Director of Children’s Mercy International Services
Welcome to Pediatrics at Children’s Mercy

Children’s Mercy offers a rich curriculum including more than 500,000 patient encounters each year, as well as the opportunity to build strong faculty-resident relationships. We are dedicated to providing our residents with a superior education and the tools necessary to improve pediatric medicine.

Our dedication to excellence, collaborative educational spirit and focus on family-centered care gives all Children’s Mercy trainees the knowledge and skills needed to truly redefine pediatric medicine for children today and for generations to come.

Children’s Mercy Hospitals and Clinics operates the only Level IV intensive care nursery and the only Level I pediatric trauma center in a 200-mile radius of Kansas City. We have been recognized by the American Nurses Credentialing Center with Magnet designation for excellence in nursing services and ranked by U.S. News & World Report and Parents Magazine as one of “America’s Best Children’s Hospitals.”

In 2013, Children’s Mercy partnered with the University of Kansas Medical Center to begin the process of creating a single, integrated pediatric program to better serve children in our region. Working together will enhance clinical, research and educational opportunities. This exciting new change will build upon our outstanding quality of care, opportunities for professional growth and premier education.

“Our Pediatric Residency Program provides practitioners with comprehensive knowledge, practical experience, outstanding skills and the tools that foster life-long learning. Our graduates are exceptionally well prepared to enter practice or to build upon their general pediatrics foundation by moving on to fellowship training.”

Michael Artman, MD
Joyce C. Hall Endowed Chair in Pediatrics
Professor and Chair, Department of Pediatrics at UMKC School of Medicine

Michael Artman, MD
Pediatrician-in-Chief
Chair, Department of Pediatrics
Residency Program

There is no denying that the Residency Program at the University of Missouri-Kansas City and Children’s Mercy is one of the most robust in the nation.

With more than 40 subspecialties and as the largest pediatric hospital in the region, the Children’s Mercy Pediatric Residency Program exposes residents to a diverse patient population in a state-of-the-art facility. The program is built on a competency-based curriculum designed to provide practitioners with comprehensive knowledge and outstanding skills.

Residents benefit from hands-on training through the nationally recognized medical, surgical, nursing and patient/family support services. Additionally, when residents graduate they are fully prepared to pursue whatever career option they choose.

To learn more about the Pediatric Residency Program at Children's Mercy, visit www.childrensmercy.org/GME or the Children’s Mercy Graduate Medical Education page at facebook.com/ChildrensMercyGME.
Select Residency Program Notables

Tyler Fisher, MD – national poster/abstract at the American Academy of Pediatrics National Convention in transport medicine

Emily Fox, MD – national platform presentation at the American College of Rheumatology and a case report published in The Journal of Rheumatology

Nathan Hall, DO – national poster/abstract at the Pediatric Hospital Medicine Conference.

Jill Hanson, MD – national poster/abstract at the Pediatric Academy Society Conference and a platform presentation at the American College of Allergy, Asthma and Immunology Annual Meeting

Alison Humphrey, MD - national poster/abstract at the American College of Allergy, Asthma and Immunology Annual Meeting


Meghan Mobley, MD - manuscript accepted from her national poster/abstract at the Society for Cardiovascular Angiographers and Interventions Conference in 2011

Rodrigo Rios, MD - national poster/abstract at Midwest Pediatrics Conference

Craig Sitzman, MD - national poster/abstract at the American Academy of Pediatrics National Convention in neonatal medicine

Voytek Slowik, MD - national poster/abstract at the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition
OWL Team Continues Creative Tradition

Each month a new group of residents cover the weekday overnight shifts. Years ago, during downtime, residents on the night-float teams began creating hand painted original artwork. It is not a requirement for residents to participate, but the majority have left behind a piece of artwork at the end of their night rotation, often incorporating an inside joke amongst the night team from that month.

This past year, as one of the initiatives of the Housestaff Improvement Committee, paintings that have been scattered throughout the resident quarters were compiled into a single collage in the housestaff lounge.

“OWL team residents are continuing to add to the collage, creating a true sense of morale and camaraderie amongst the residents,” says Nick Clark, MD, pediatric resident.

Just this past year, a former resident, who graduated many years ago, stopped by the housestaff lounge, after the collage had been compiled and searched for her artwork. “She was so excited when she found it that she immediately took a picture and posted it to her Facebook account,” says Clark.

Resident Express Themselves Artistically

Another initiative of the Housestaff Improvement Committee was to improve resident morale. Although the committee initially began as the Housestaff Beautification Committee it didn’t take long to realize that in addition to focusing on physical appearance, the committee wanted to find ways to make the Housestaff and residency program feel more united.

This new direction sparked an idea from recent graduate, Laura Zapapas, MD, who proposed a photo contest. The committee proposes a topic, residents are encouraged to snap photos and submit and then electronic voting takes place. The top three submissions (based on number of votes) are then displayed within the Housestaff Classroom with resident names. Previous contest winners get to keep their photo once the new winners are displayed. This past year, a fall and spring contest were held with submissions doubling for the spring contest.

Select Residency Faculty Highlights

Drs. Mann, Hoffman and Bratcher, as well as Ms. Miller and Ms. Chadwick, published an article in the Journal of Graduate Medical Education, “The Effect of a Patient- and Family-Centered Care Curriculum on Pediatric Residents’ Patient-Centeredness.” The abstract is now available on-line. Keith J. Mann, MD, MEd, is an Associate Professor of Pediatrics and Associate Chair of Quality Improvement, and Medical Director, Quality and Safety; Amber Hoffman, MD, is an Assistant Professor of Pediatrics; DeeJo Miller and Cheryl Chadwick are Family-Centered Care Coordinators; and Denise Bratcher, DO, is a Professor of Pediatrics.

This past year, the Medical Staff, under the direction of Milton Fowler, donated $10,000 to establish the Global Child Health Scholarship. The scholarship is open to any resident within the Global Health Track and is providing opportunities to those who many not have had the financial resources to consider international opportunities in the past. Scholarships will be awarded during two cycles annually. Recipients of the scholarship will be selected based on the quality of the elective, expenses anticipated, and reasons for choosing the elective.

Amber Hoffman, MD, recently transitioned out of her role as Associate Program Director to become the Medical Director of a comprehensive hospital-wide program for medically complex children.
Improving Performance — Residents Better Patient Safety

It’s no secret residents live hectic lives. At any moment they can be found assisting a surgery, speaking with a patient, doing research or any number of things.

Residents are valued not only for their eagerness to learn, but for their fresh eyes.

“Residents play an integral role in patient safety,” says Keith Mann, MD, MEd, Associate Executive Medical Director and Chief Medical Quality and Safety Officer. “They have an incredible awareness of what happens minute-to-minute in the hospital and a great sense of the hospital’s strengths, as well as areas it can improve upon.”

In order to deliver the best quality outcomes for its patients and employees, Children’s Mercy created a new daily operational briefing, the Daily Safety Update, in August 2012.
The Daily Safety Update is a safety briefing that requires residents to communicate safety needs and concerns to chief residents.

Every morning, approximately 20 groups call in to report on daily operations such as census and staffing, as well as any safety concerns that may have arisen over the past 24 hours.

By reporting to chief residents, the safety team is essentially given a snapshot of each department’s state of safety.

Chief residents say they appreciate and are learning from the new program just as much as the residents.

“The residents truly appreciate the Daily Safety Update,” says Molly Krager, MD, former Pediatric Chief Resident. “As chief residents, attending the Daily Safety Update has taught us a tremendous amount about the number of people and departments that are necessary to keep a hospital like Children’s Mercy up and running.”

“The calls are great because everyone works as a team to shed light on possible issues, then continues to work together to mitigate any of the concerns mentioned on the call. Chief residents create categories of common concerns with the information they receive, which makes us better able to track those concerns and then work on improvements,” says Mann.

More than its power to improve operational safety at Children’s Mercy, the Daily Safety Update is an invaluable program, teaching and equipping residents and chief residents alike with hands-on practice for problem solving, leadership and diligence.

“I hope the Daily Safety Update is fostering the idea among residents that their opinions matter and the issues they face are important,” says Jason Newland, MD, Medical Director of Patient Safety and Systems Reliability Associate, Professor of Pediatrics, University of Missouri-Kansas City School of Medicine.

“Residents are an integral part of our hospital and their involvement in this new program is imperative.”

## Daily Safety Checklist

During the 20-minute phone call each morning, residents report on four main areas:

1. Communication issues with attending, fellows, nurses or consultants that could have led to unsafe events
2. Medication errors or “near misses” that occurred
3. Unsafe patient placements
4. Patients on med/surg units that have a high PEWS or are otherwise at risk for rapid response or code blue events.
Internal Medicine/Pediatrics Residency

The University of Missouri-Kansas City Internal Medicine Pediatrics (Med/Peds) Residency is a nationally acclaimed academic program that prides itself on its participants and graduates, as well as their accomplishments.

Located in the heart of the Midwest, our residency program offers a quality training experience in an affordable and livable city. Unlike most, our residency program is comprised of three independent hospitals that join together to provide an excellent and diverse education for our residents.

While our program’s environment and teaching services make for a successful experience, our personnel are what make the residency experience excellent. Residents of our program are hard working, intelligent and dependable; but they are also feisty, bold and unrelenting.

Much like pediatrics, a successful learning environment requires teamwork. Faculty work closely with residents and meet with them weekly to ensure needs are being met. But in order to effectively unify and progress three individual hospitals, a change was in order.

Joining the six other outstanding Med/Peds residency faculty is Sara Gardner, MD, Interim Section Chief of Internal Medicine-Pediatrics Residency; Assistant Professor of Pediatrics, University of Missouri-Kansas City.

Gardner’s entire medical career is based in Kansas City. After graduating from University of Missouri-Kansas City, she became the Program Director of Internal Medicine/Pediatrics at Children’s Mercy in 2009, where she stayed until her recent promotion.

Eager to come on board, Gardner says she’s excited for what this new section of medicine/pediatrics means for the residency program.

“I’m thrilled with our new section,” she says. “I’m pleased our faculty can now do combined primary care and transition medicine.”

Gardner will be working alongside other division leaders to bring the vision of a combined faculty clinic to life, more competitively aligning Children’s Mercy with other hospitals developing similar programs.

New Section of Medicine/Pediatrics

Michael Artman, MD, Chairman of the Children’s Mercy Department of Pediatrics, and George Reisz, MD, Chairman of the Department of Internal Medicine at the UMKC School of Medicine, recently announced the formation of a new shared Section of Medicine/Pediatrics within the Division of General Pediatrics at Children’s Mercy and the Section of General Internal Medicine at UMKC.

This new section seeks to develop a comprehensive Internal Medicine-Pediatrics clinical and academic service on Hospital Hill, with service that includes faculty practice, transition services and graduate medical education.
Although quality has long been a cornerstone of the University of Missouri-Kansas City Internal Medicine Pediatrics (Med/Peds) Residency, ACGME now mandates formal instruction of Quality Improvement (QI).

The new QI program not only ensures that quality standards are met, but also delivers the concept in a practical and comfortable setting. Residents participate in a quarterly review of core concepts in quality improvement, then work through a “plan, do, study, act” cycle based on what they learned.

To complement the new curriculum, each of the resident clinics completed a QI project and presented findings at the annual Resident Research Days at UMKC in 2012.

Residents who presented were encouraged to create very simple ideas about areas they felt could be improved upon, within their area of focus. This involved evaluating current guidelines, measuring them against what was being performed in the clinic and then presenting it to clinic leadership.

One team’s presentation made an impressive mark on not only the new QI curriculum, but the residency program as a whole.
Emily Haury, MD and Christopher Fitzgerald’s, MD, project, “Screening for Diabetic Neuropathy in Patients,” acquired new budgetary allowances for new medical equipment, allowing for a higher level of patient care.

In short, Haury and Fitzgerald’s project theorized their resident clinic could improve its screening of diabetic patients for neuropathy by performing proper foot exams with the correct tools. They concluded that a combination of resident education and suitable equipment significantly increased the clinic’s rates of appropriate diabetic foot exams.

In terms of Quality Improvement, Haury says the new curriculum has helped residents better prepare for certification. “Including this new curriculum into our Meds/Peds residency helps us to prepare for the QI requirements for maintenance of certification, as well as the current pay-for-performance focus in medicine.”

Interim Section Chief of Internal Medicine-Pediatrics Residency; Assistant Professor of Pediatrics, University of Missouri-Kansas City, Gardner agrees, “The practice of QI is something physicians have to be able to do every single day. Teaching residents the value of teamwork in their approach to quality care will carry with them the rest of their careers.”

Other residents with noteworthy presentations include Casey Willimann, MD, and Matt Schmitt’s, MD, presentation, “Hepatitis B Vaccinations in Diabetic Patients,” and Carmen Storm, MD, and David Ryan Stone’s, DO, “Documentation of Health Maintenance Practices in the Clinic, with a Focus on Colon Cancer Screenings.”

“The practice of QI is something physicians have to be able to do every single day. Teaching residents the value of teamwork in their approach to quality care will carry with them the rest of their careers.”

Sara Gardner, MD
Assistant Professor of Pediatrics, UMKC School of Medicine
Interim Section Chief of Internal Medicine/Pediatrics
Fellowship Programs

Children's Mercy continues to attract the best and brightest candidates, who excel in their chosen pediatric subspecialty, by providing them experience in pediatric education, research, administration and critical thinking.

In 2012-2013, we had 78 fellows enrolled in fellowship programs. We also launched a new fellowship in Clinical Neurophysiology Fellowship and graduated its first fellow.

“The Children’s Mercy fellowship programs provide the opportunity to develop into a top-notch physician in critical care, academic teaching and conducting research,” explains Jane Knapp, MD, Chair, Graduate Medical Education, and Professor of Pediatrics, University of Missouri-Kansas City.

Children’s Mercy offers the following fellowship programs:

- Allergy/Immunology
- Child Abuse & Neglect (Children at Risk)
- Child Neurology
- Clinical Neurophysiology
- Clinical Pharmacology
- Developmental-Behavioral Pediatrics
- Neonatal-Perinatal Medicine
- Pediatric Cardiology
- Pediatric Critical Care Medicine
- Pediatric Dentistry
- Pediatric Dermatology
- Pediatric Emergency Medicine
- Pediatric Endocrinology
- Pediatric Gastroenterology
- Pediatric Hematology/Oncology
- Pediatric Infectious Diseases
- Pediatric Nephrology
- Pediatric Ophthalmology
- Pediatric Optometry
- Pediatric Otolaryngology
- Pediatric Pathology
- Pediatric Radiology
- Pediatric Rehabilitation
- Pediatric Surgery
- Plastic & Craniofacial Surgery
- Surgical Critical Care
- Surgical Scholars

www.childrensmercy.org
Fellow Creates New Tool for Evaluating Child Abuse

At Children’s Mercy, our Division of Child Abuse and Neglect cares for nearly 3,000 children each year by identifying, preventing and treating all forms of child abuse. Our approach to care includes developing innovative educational strategies for medical and investigative professionals and pursuing ground-breaking research that enhances the field of child-abuse pediatrics.

Children who endure the trauma of abuse deserve the best, most efficient care, and Pediatric fellow Tanya Burrell, MD, is taking action to ensure just that. After participating in an elective rotation in child advocacy during medical school, Burrell realized this was an area she wanted to pursue further.

In order to first evaluate the quality of care being delivered to abused children in the region, an assessment was sent to all facilities through the Child Abuse and Neglect division of Children’s Mercy Hospital. The results indicated the quality of care delivered specifically to abused children, measured very poor and inconsistent. Survey results identified a gap – there was no standard way of evaluating a child once a report of abuse was made.
As a solution, Burrell created a check list that would serve as a tool to evaluate all abuse cases. Her solution is increasing the quality and consistency of examinations at Children’s Mercy. In addition, not only is this new tool already in use at Children’s Mercy, but Burrell presented her findings at both the Ray E. Helfer Society Annual Meeting and the Pediatric Academic Societies Annual Meeting, making it likely that it will be adapted by other hospitals nationwide.

Burrell’s mentor, James Anderst, MD, Chief of Division of Child Abuse and Neglect, weighed in on her contributions by saying, “When young kids come with injuries and there are concerns of abuse, it is a life-changing moment. By ensuring evaluations are done correctly, there’s great potential to help kids and their families, not just medical professionals.”

By incorporating user-friendly technology, the checklist is always available to health care professionals through a Smartphone app.

Burrell said she is hopeful that the checklist tool developed from her research will assist in improving the quality of care for child physical abuse patients, and also help to reduce the recurrence rate of physical abuse events by increasing medical providers’ comfort level in making the diagnosis of physical abuse when necessary. She has joined Children’s Mercy Department of Child Abuse and Neglect as faculty.

“We are thrilled that Tanya has joined the Department of Child Abuse and Neglect as faculty. She will undoubtedly continue to improve the way we can assist children who have been touched by abuse.”

Mary Moffatt, MD, FAAP
Assistant Professor of Pediatrics, UMKC School of Medicine
Program Director, Child Abuse Pediatrics Fellowship
Fellowship Grant Awardees
Spring 2013

This past June, five Children's Mercy postdoctoral fellows were individually awarded up to $15,000 grants to help support their research efforts. As part of the Grant Writing Boot Camp, these new Children’s Mercy Clinical Fellowship Research Awards are providing financial support, over a 24 month period to postdoctoral fellows in pediatric medical and surgical subspecialties as part of their training program.

Congratulations to the following trainees on their award recognition of their research efforts.
Title: Methotrexate Activity and Disposition in Synoviocytes Isolated from Patients with Juvenile Idiopathic Arthritis
Principal Investigator: Ryan Funk, PharmD, PhD
Mentor: Mara Becker, MD, MSCE
Title: Validation of Echocardiographic Measurements of Ovine Ventricular Function and Volume in the Intraoperative Milieu
Principal Investigator: Sandhya Ramlogan, MBChB
Mentor: Girish Shirali, MBBS
Title: Randomized Crossover of Neurally Adjusted Ventilatory Assist In Infants
Principal Investigator: Jamie Rosterman, DO
Mentor: Howard Kilbride, MD
Title: PXR Expression in Small Bowel Tissue of Pediatric Patients with Crohn's Disease
Principal Investigator: Valentina Shakhnovich, MD
Mentor: Greg Kearns, PharmD, PhD
Title: Pharmacokinetics of Pravastatin and Simvastatin in Pediatric Dyslipidemia Patients; Clinical Impact of Genetic Variation in Statin Disposition
Principal Investigator: Jonathan Wagner, DO
Mentor: J. Steven Leeder, PharmD, PhD

Select Fellowship Program Notables

Tara Federly, MD, Fellow in Division of Allergy, Asthma & Immunology, was named winner of the 2013 AAP Section on Allergy and Immunology Pediatric Allergy, Asthma and Immunology Abstract Award. She presented at the 2013 Annual Meeting of the American Academy of Allergy, Asthma and Immunology in San Antonio. She has also written, “Food Specific IgE Levels in Children Should be Interpreted in Context of Total IgE,” which was mentored by Chitra Dinakar, MD FAAAI, and co-authored with Bridgette L. Jones, MD FAAAI and Hongying Dai, PhD.

Natalie Jayaram, MD, had a poster presentation at the American College of Cardiology Conference for a project she has been working on at the Mid America Heart Institute. The project was on pediatric in-hospital cardiac arrest and received “Best Fellow in Training Poster” designation and “Best Poster” designation in the overall category as well.

Shwetal Lelan’s, MD, work, “Comparison between Oscillometric and Intra-Arterial Blood Pressure Measurements in Critically Ill Preterm and Full-term Neonates” was selected for oral presentation at American Society of Hypertension.

Vydhi Murthy’s, MD, case report with Alex Ossman was accepted in Journal of Perinatology which was titled, “Intravitreal Ganciclovir for Neonatal Cytomegalovirus Associated Retinitis: A Case Report.”

Kyle Lemley, MD, presented a poster at PCICS “Observed Benefits of Neurally Adjusted Ventilatory Assist (NAVA) in a Child with Hypoplastic Left Heart Syndrome.”

Kavitha Dileepan, MD, a Fellow in Endocrinology, was awarded 3rd prize in the first Pediatric Ethics Essay Competition, sponsored by the Pediatric Endocrine Society. Her essay, along with the essays awarded 1st and 2nd place, will be published in a future issue of the International Journal of Pediatric Endocrinology (IJPE).

Christelle Ilboudo, MD, was selected to attend the 2013 NIAID/IDSA ID Research Careers Meeting in Bethesda, MD. The application process was competitive and required a recommendation letter and a personal statement outlining her career goals, as well as ongoing and planned future research endeavors. In addition, to meeting research mentors she presented her research in a poster session at the meeting. She was selected from a pool of pediatric infectious diseases fellows across the country.

Timothy Lindquist, MD, the 2012-2013 ophthalmology fellow at CMH, presented at the annual AAPOS meeting in Boston. He presented data on the novel use of partial rectus muscle tenotomies in the treatment of small angle strabismus.

Devneet Donegan, MD, presented The Association of Meteorological Conditions and the Average Spore Counts in Kansas City at The American College of Allergy, Asthma, and Immunology 2012 Scientific Meeting in Anaheim, CA. Her mentor was Dr. Christina Ciaccio, MD.

Faculty Highlights

Gregory L. Kearns, PharmD, PhD, is serving a second term as Secretary-Treasurer on the Board of Directors for The American Society for Clinical Pharmacology and Therapeutics (ASCPT). Dr. Kearns has held several positions on the Board, including his term as President from 2003 to 2004. In addition to being the Program Director for our Clinical Pharmacology Fellowship, Dr. Kearns holds the Marion Merrell Dow/Missouri Chair in Pediatric Medical Research at Children’s Mercy Hospital, and serves the institution as Chief Scientific Officer and Associate Chairman of Pediatrics.

Robert Rinaldi, MD, Program Director, Physical Medicine and Rehabilitation, was appointed Chair of the American Academy of Physical Medicine and Rehabilitation’s Pediatric Rehabilitation Members Council. This is a three-year national appointment and a true honor for Dr. Rinaldi and Children’s Mercy.

An article by Shawn St. Peter, MD, Surgery Fellowship Program Director and other Children’s Mercy Department of Surgery faculty members was the second-most read article by general surgeons in 2012, according to WebMD. The article, “Irrigation Versus Suction Alone During Laparoscopic Appendectomy for Perforated Appendicitis,” was published in the Annals of Surgery. The article’s authors were Shawn St. Peter, MD; Obinna Adibe, MD; Corey Iqbal, MD; Frankie Fike, MD; Susan Sharp, PhD; David Juang, MD; David Lanning, MD; Patrick Murphy, MD; Walter Andrews, MD; Ronald Sharp, MD; Charles Snyder, MD; George Holcomb, MD, MBA; and Daniel Ostlie, MD.
Extraordinary Patient Experience

**Patient Throws First ‘Virtual Pitch’**

Nick LeGrande, a 13-year-old baseball fan battling an extremely rare blood disorder, lived out his big-league dreams by throwing out the first pitch at a Major League Baseball game – without leaving his hometown of Kansas City.

Surrounded by his family, friends, Little League teammates and Children’s Mercy doctors and staff, Nick delivered a pitch at Kansas City’s Google Fiber Space that triggered a telerobotic arm halfway across the country to throw the ceremonial first pitch at Wednesday’s Oakland A’s-New York Yankees game.

“Nick has a Superman complex. I say that because I don’t know many adults who could go through what he has this year,” said his father, Mike LeGrande. “His doctors at Children’s Mercy are supportive through every aspect of his care, of course, but a once-in-a-lifetime opportunity like this might be the best treatment yet.”
The youngest member of a family whose baseball roots trace back to Hall of Famer Rabbit Maranville, Nick’s own baseball career was put on hold when he was diagnosed with aplastic anemia, a rare disease that damages the bone marrow and blood stem cells. Nick, who his father describes as always being a “little nuclear reactor” of energy, now requires weekly infusions to counter the inability of his stem cells to generate mature blood cells.

“Nick has been through so much since his diagnosis in January,” said Jasziianne Tolbert, MD, pediatric hematologist at Children’s Mercy, “But he has such an amazing spirit and attitude about the whole thing. This experience couldn’t happen to a more deserving young man and a bigger baseball fan.”

Not far from the hospital, Nick took the mound at the Google Fiber Space’s custom-built infield, complete with real dirt and real grass, and his historic pitch was seen on the big screen at O.co Coliseum. Nearly 40,000 fans cheered on the feat before the A’s took on the Yankees, one of Nick’s favorite teams along with his hometown Kansas City Royals.

Nick’s story is just one example of the extraordinary patients that help to create our exceptional education and learning environment. As the region’s only children’s hospital, patients come from a large distance, providing an opportunity to see a lot of different patients.

Nick’s doctor, Jasziianne Tolbert, MD, commented, “Children’s Mercy offers a fellow-driven program where you don’t feel like a spectator, you get to be the driver.” There is always an attending physician with you, but residents and fellows have the opportunity to develop individual patient relationships, supporting the autonomy that will be expected as they graduate and complete individual training programs.

“Developing a physician-patient relationship with the LeGrande family is really special, they see me as their physician.”

Jasziianne Tolbert, MD
Pediatric Hematologist Fellow
Medical Students

As the pediatric leaders in the region, Children’s Mercy is proud to offer currently enrolled medical students at accredited allopathic or osteopathic medical schools the opportunity to request an elective rotation or sub-internship.

Children’s Mercy offers elective rotations in the following areas:

Adolescent Medicine
Advanced Newborn Nursery
Child Abuse & Neglect
Child Advocacy
Developmental & Behavioral Pediatrics
Infant & Toddlers with Special Needs
Pediatric Asthma-Immunology
Pediatric Cardiology
Pediatric Clinical Pharmacology and Therapeutic Innovation
Pediatric Dermatology
Pediatric Emergency Medicine
Pediatric Endocrinology
Pediatric Ear, Nose & Throat (ENT)
Pediatric Gastroenterology
Pediatric Genetics
Pediatric Hematology-Oncology
Pediatric Infectious Disease
Pediatric Nephrology
Pediatric Neurology
Pediatric Ophthalmology
Pediatric Orthopaedics
Pediatric Plastic Surgery
Pediatric Psychiatry
Pediatric Pulmonology
Pediatric Radiology
Pediatric Rehabilitation
Pediatric Research
Pediatric Rheumatology
Pediatric Surgery

The following sub-internships are also available:

Neonatal Intensive Care Nursery
Pediatric Critical Care
Sub-Internship (General Pediatrics)
Sub-Internship-Pediatric Hospital Medicine (CMH Main)
Sub-Internship-Pediatric Hospital Medicine (CMH South)

APPLYING FOR A ROTATION
Students interested in applying for an elective rotation or sub-internship can visit childrensmercy.org/gme for more details.
Clerkship Experience

The Pediatric Clerkship for the University of Missouri-Kansas City School of Medicine is provided by the faculty at Children’s Mercy. Clerkship students also rotate through the NICU at Truman Medical Center. The six-week Pediatric Core Rotation is divided into three blocks: inpatient pediatrics at Children’s Mercy, newborn nursery at Truman Medical Center and outpatient general pediatrics at the Pediatric Care Center (PCC) at Children’s Mercy.

Some students from the Kansas City University of Medicine and Biosciences receive their four-week pediatric clerkship at Children’s Mercy.

Teaching methods include: orientation, patient presentations on rounds, progress notes, role modeling, observation, student presentations, CLIPP cases, conferences, chief resident report, teaching sessions, formal observation of H&Ps and workshops. Assessment methods include: written assessment, daily feedback forms, formative assessment by residents and faculty after direct observation, NBME exam, CLEX journal and review of medical student written patient documentation.
UMKC and KU Students Participate in Headline-Making Research

The Center for Pediatric Genomic Medicine at Children’s Mercy, established in 2011, was the first genome center in the world set entirely inside a children’s hospital with a focus on the diagnosis of inherited pediatric diseases.

Researchers at the Center use genome computation and unique analytic capabilities that support the hospital’s cutting edge research programs to improve outcomes for children affected by undiagnosed genetic diseases both at Children’s Mercy and across the globe.

TIME Magazine named the Center’s Rapid Whole-Genome Sequencing for Genetic Disease Diagnosis in Neonatal Intensive Care Units one of the Top 10 Medical Breakthroughs of 2012. The proof-of-concept process, called STAT-Seq, uses whole-genome sequencing to diagnose critically ill infants.

STAT-Seq uses software developed at Children’s Mercy, which translates physician-entered clinical features of individual patients into a comprehensive set of relevant diseases. Essentially, the software automates the identification of DNA variations that can explain a child’s illness.
The entire process — from drawing blood to genome sequencing, analysis and diagnosis — takes the Center for Genomic Medicine at Children’s Mercy approximately 50 hours, whereas before STAT-Seq, testing just one gene took six weeks, often longer.

Children’s Mercy is extremely proud to be recognized by TIME for this breakthrough technology and excited about the benefit it will have in the care setting, says Stephen Kingsmore, M.B., Ch.B., D.Sc., FRCPath, Director of the Center for Pediatric Genome Medicine at Children’s Mercy.

Sara Soden, MD, Medical Director of the Center for Pediatric Genomic Medicine, says students played an integral role in the initial research surrounding whole-genome sequencing.

“Given the newness and complexity of the field, newer physicians complement our needs nicely,” Dr. Soden says. “Right now, a student’s job is to learn—to be innovative and forward thinking. That’s an important asset for our work at the genomic center.”

A dream few medical students realize came true for students Aaron Noll, University of Kansas, and Noor Abu Alnadi, University of Missouri-Kansas City, who were part of this revolutionary research team. Noll and Alnadi also co-authored the research article published in the Science Translational Medicine Journal in 2012.

“I’m very excited our research is leading to better care for patients,” says Aaron Noll. “I loved our work, and I love that our work is providing new insights to the medical community.”

The Center for Pediatric Genomic Medicine at Children’s Mercy is the genomic research pioneer in the region.

“Health care is in a rapid learning curve,” Dr. Soden says. “Our genome center in Kansas City is an accelerated program that serves as a leader in learning about genomics, how our discoveries will impact medicine and communicating our findings to others.”

The number of different areas we are researching in genomic medicine are limitless. It’s like a gold mine — to have bright, young, forward-thinking minds roll up their sleeves and get involved means we will make even more discoveries.

Sara Soden, MD
Medical Director, Center for Pediatric Genomic Medicine; Developmental Pediatrician; Assistant Professor of Pediatrics, UMKC School of Medicine
Clinical Training Hours Restructured

U.S. medical schools are on track to increase their enrollment 30 percent by 2017, according to Association of American Medical Colleges Center for Workforce Studies. With growing enrollment, medical schools are discovering new ways to expand capacity, while preserving the quality of trainee programs.

As far back as 2009, as class sizes began to increase, Children’s Mercy implemented a schedule change for pediatric students that included three weeks of daytime work hours followed by one week of five consecutive 12-hour overnight shifts.

This past year, Children’s Mercy in partnership with the University of Missouri-Kansas City School of Medicine published the results of a study evaluating overnight work hours within pediatric clerkships.

Children’s Mercy recognizes the significant impact residents have in medical student education. The time that medical students receive from willing and able residents during their clerkship subsequently influences their career choice, professional growth and perceptions of their clerkship on a whole.

“We hypothesized that incorporating medical students on the resident night-float team for five days would provide more time for one-on-one student-resident teaching. We also anticipated that the new schedule would allow us to effectively handle the increased number of students per clerkship without detrimental effects on students’ satisfaction with the clerkship or performance on the National Board of Medical Examiners (NBME) pediatric shelf exam,” says Nasreen Talib, MD, MPH, Associate Chief – Section of General Pediatrics, Professor, UMKC-School of Medicine.

The conclusion

“Overnight work hours for medical students increased clerkship capacity while maintaining student satisfaction and cognitive performance. Added benefits included increased clinical experience and improved QRT (quality of resident teaching).”

The Children’s Mercy Residency Program is built on a competency-based curriculum designed to provide practitioners with comprehensive knowledge and outstanding skills. By implementing this schedule change and then studying the effects, the program was able to wisely accommodate larger class sizes while enhancing quality programming for trainees.

Children’s Mercy is adapting to meet market demands, while continuing to provide the highest quality training. We are constantly evaluating new program opportunities that will enhance our residents’ training experience."

Jane Knapp, MD
Chair, Department of Graduate Medical Education

REFERENCE:
Can Incorporating Inpatient Overnight Work Hours Into a Pediatric Clerkship Improve the Clerkship Experience for Students? Academic Medicine, Vol. 88, No. 3/March 2013
Continuing Medical Education

Valuing the importance and significance of continuing education, Children’s Mercy is committed to maintaining the highest-quality clinical standards. Patient care is a life-long process that requires staying abreast of the latest procedures, technology and approaches in medicine.

The Continuing Medical Education (CME) program at Children’s Mercy supports physicians in their effort to remain at the cutting-edge of their profession, delivering high-quality educational content to physicians through lectures, conferences, on-line courses, regularly scheduled series, interactive skill-based programs and enduring materials.

Children’s Mercy is accredited by the Missouri State Medical Association to provide CME for physicians through June 10, 2014. All CME activities are planned and implemented in accordance with the Accreditation Council for Continuing Medical Education (ACCME) Essential Areas, Elements and Guidelines.

During 2012, Children’s Mercy offered 436 programs worth 1,089.75 continuing medical education credit hours to 8,530 physicians. In addition, 8,393 other health care professionals also attended and benefited from these educational programs, for a total of 16,923 attendees. The most significant increase in activity was noted in those participating in our on-line courses. More than 2,300 participants took advantage of the on-line courses in 2012, which is greater than a 50 percent increase since 2011.

Health Sciences Library and Kreamer Resource Center for Families

The Health Sciences Library provides qualified medical librarians to assist with education, literature searches, reference assistance, and support for clinical, research and evidence-based practice teams throughout the organization. The library also provides pediatric print and electronic resources to answer information needs, along with document delivery and interlibrary loan services. Print resources include approximately 4,850 print books, 260 Bradford history of pediatrics books, 500 journals (most online) and 100 CD-ROM and DVD items. The Virtual Library of online resources include 200 e-books, over 480 e-journals, multiple databases, point-of-care tools including DynaMed, UptoDate, and VisualDx, and drug references such as Lexi-Comp, Micromedex and Medications and Mother’s Milk. These resources complement the resources at the adjacent university health sciences library.

The Kreamer Resource Center for Families is a pediatric consumer health library that provides services to the patients, their families, and the community while also supporting patient educators with information in different formats, at different literacy levels and for different developmental ages. Qualified medical librarians help patients’ families to find reliable health information and resources in words and pictures they can understand. The Kreamer RCF has both consumer health materials and recreation books for parents and children, and loans from collections of approximately 3,800 consumer health books, 3,900 recreation books, 450 videos, 45 periodicals, plus anatomical models, charts, manikins and exhibit boards.

Consumer health materials focus on childhood illnesses, injuries, and disabilities, but include psychosocial support materials, special diet cookbooks, and more. Services for families include public access computers, photocopier, fax and a small meeting space.

2012 - 2013 Library Report

- 36,372 e-books were used
- 72,888 e-journals were accessed
- 1,820 literature searches were performed by three librarians
- Nearly 300 formal, scheduled training sessions occurred
Grand Rounds Online

For nearly two years, Children’s Mercy has offered Grand Rounds Online, taking weekly Grand Round lectures out of the auditorium and into providers’ computers.

Since the launch, thousands of physicians and health care professionals have taken advantage of the web-based programs, including participants from nearly 30 states as well as countries from around the world.

Highlights from this past year included:

- August 23, 2012 - “Position Emission Tomography (PET): How it works and when it is used in pediatric healthcare”
- December 13, 2012 - “The Surgical Treatment of Epilepsy,” by Christian B. Kaufman, MD
- January 24, 2013 - “These Things Happen: How Harm Occurs in Hospitals and What We Can Do About It,” by Paul Levy, President and CEO, Beth Israel Deaconess Medical Center, Boston, Massachusetts
- February 14, 2013 – “Advances in Cardiac Imaging: Impact on Surgery and Interventions in Congenital Heart Defects,” by Girish Shirali, MBBS, Division Director, Cardiology, Children’s Mercy
- June 27, 2013 - “The Role of the Medical Home in Redesigning Pediatric Health Care,” by Thomas Klitzner, MD, Jack H. Skirball Professor and the former chief of the Division of Pediatric Cardiology at the David Geffen School

Steps for Accessing Grand Rounds Online

- Visit https://www.childrensmercy.org/grandrounds
- Set up your new account with a valid email address. This will become your username.
- Set up your password.
- System requirements, a list of available presentations, your list of completed presentations, handouts and printable certificates will be accessible.
- To participate and obtain CME/CE, you must complete a pre-test and a post-test. Tests are not scored or reported, but upon completion of the post-test, you will see the correct answers immediately in comparison with your answers. Your certificate will be available to print immediately upon the completion of your post-test and evaluation.
- Grand Rounds will be posted within two business days after presentation and will be available online for 60 days after posting.
- This process can be used for all available grand rounds.
- Should you have questions about this new service available to health care providers, feel free to contact:
  - Medical Education: Teresa Shepherd, Manager Continuing Medical Education
  - Phone: (816) 234-3744 or
  - Email: tsp shepherd@cmh.edu

GME Goes Virtual

GME launched a new GME Virtual Office on Moodle! This course system houses all the policies, forms, presentations, and important information that trainees need when interacting with GME during training. This past year Moodle became integrated with Tegrity, a system that allows trainees to watch all recorded conferences.
Advanced Degrees and Certifications

**MASTER OF SCIENCE: BIOINFORMATICS** The Master of Science in Bioinformatics supports the education of students interested in a career in bioinformatics or clinical research. Our graduates master core competencies that allow them to participate in biological research, clinical and population health research, or research to develop innovative information systems. We work passionately to equip the next generation of health researchers by emphasizing patient-oriented research in the context of state-of-the-art medical informatics.

Applicants must complete the traditional application form, but those who have already obtained a graduate or professional degree from a nationally-accredited university are not required to submit scores from the GRE. For those interested in pursuing a Master of Science in Bioinformatics during their fellowship training at Children’s Mercy, a tuition-reduction program is available. To learn more about this degree program, visit www.med.umkc.edu/dbhi.

**GRADUATE CERTIFICATE: CLINICAL RESEARCH** The graduate certificate program is comprised of the core courses offered in the Master of Science in Bioinformatics Clinical Research Curriculum and appeals to fellows of any specialty. The 15-credit hour course is derived from the core of the Master of Science in Bioinformatics Clinical Research curriculum and includes the following five courses:

- Biostatics
- Clinical Research Methods
- Clinical Epidemiology
- Clinical Trials
- Overview of Health Services Research

To learn more about the Graduate Certificate in Clinical Research program, visit www.med.umkc.edu/dbhi.
GRADUATE CERTIFICATE: HEALTH PROFESSIONS EDUCATION Based on a core curriculum in applied educational research, the 36-credit hour Graduate Certificate program focuses on the development of expertise in teaching, instructional design, program evaluation, assessment, leadership and educational research. The first year of the masters degree is the certificate program. Children’s Mercy fellows who accept faculty positions at the hospital following their training will be able to complete the degree after their fellowships end.

To learn more about either the Graduate Certificate or Masters in Health Professions Education, contact (816) 235-2465.

BIOETHICS CENTER CERTIFICATE PROGRAM The Children’s Mercy Bioethics Center Certificate Program is a nine-month course with an intensive three-day weekend on site in Kansas City, Mo. For the rest of the course, students and faculty discuss assigned readings on-line and in periodic conference calls and webinars. The program is designed to help students understand common pediatric bioethical issues, including the role of ethics committees, practical techniques in ethics consultation, futility and moral distress, end-of-life decisions, pediatric palliative care, research ethics, biobanking and genetics, enhancement, issues in adolescent medicine and immunization controversies.

The focus is exclusively on pediatrics. For additional information on the Bioethics Center Certificate Program, please contact the Children’s Mercy Bioethics Center at cmbc@cmh.edu.
# Fast Facts FY2012

## Inpatient Care
- **Admissions**: 13,397
- **Average Length of Stay (ALOS)**: 4.7
- **Average Daily Census**: 210.5
- **Occupancy Rate**: 65.8%

## Patient Days
- **Medical/Surgical**: 43,836
- **Intensive Care Nursery**: 19,823
- **Pediatric Intensive Care Unit**: 8,094
- **CMS Patient Care Unit**: 4,803
- **Fetal Health Center**: 273

### Total Patient Days 76,829

## Outpatient Visits
- **Hospital Clinics**: 174,121
- **CMS Specialty Center**: 84,290
- **CMN Specialty Clinics**: 33,355
- **Primary Care Clinics**: 73,463
- **Outreach Clinics**: 5,092

### Total Outpatient Visits 370,321

## Diagnostic
- 68,599

## Pharmacy
- 63,691

## Home Care Visits
- 4,062

## Emergency/Urgent Care Visits
- **CMH Emergency Room**: 67,447
- **CMS Emergency Room**: 30,832
- **CMS Urgent Care Center**: 16,014
- **Urgent Care College Boulevard**: 7,457
- **CMN Urgent Care Center**: 26,188

### Total Emergency/Urgent Care Visits 147,938

## Surgical Procedures
- **Inpatient**: 4,382
- **Outpatient Surgery**: 14,762

### Total Surgical Procedures 19,144

## Employees: Full-Time Equivalent
- 5,197

## Volunteers: Active
- 858

## Medical Staff
- 737

## Transports
- 4,461

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CMH: Children’s Mercy Hospital
CMS: Children’s Mercy South
CMN: Children’s Mercy Northland
Honors and Awards 2012-2013

Barbara Allphin Residents as Teachers Award (Pediatrics):
Jodi Dickmeyer, MD

Barbara Allphin Residents as Teachers Award (Internal Medicine/Pediatrics):
Kevin Wherry, MD

CAPS 2011 Clinical Faculty Award:
Fred Hall, MD

CAPS 2011 Clinical Resident Award:
Britton Zuccarelli, MD

Daniel Scagliotti Teaching Award:
Terrence Carver, MD

Daniel C. Darrow Award:
Ryan McDonough, DO

Edward R. Christophersen Award:
David Jolley, MD

Emergency Medicine Award:
Ryan McDonough, DO and Laura Zapapas, MD

Fellow - Research Award – 1st Place:
Sunena Argo, MD

Fellow - Research Award - 2nd Place:
Tara Federly, MD

Fellow Teaching Award:
Sarah Weston, MD

Hematology and Oncology Award:
Ryan McDonough, DO

Herbert A. Wenner, MD Faculty Award for Medical Student Education:
Robert Riss, MD

Hospital Medicine Award:
Catherine Brooke Cotney, MD

Laura L. Backus, M.D. Memorial Award for Excellence in Pediatrics:
Shubra Srinivas

Mercy Award:
Nathan Hall, DO

Neonatal-Perinatal Medicine Award:
Catherine Brooke Cotney, MD

Outstanding Teaching Section Award:
Endocrinology

Pediatric Care Center Award:
Courtney Winterer, DO

Pediatric Critical Care Award:
Ryan McDonough, DO

Professor Rounds Award – 1st Place:
Ryan McDonough, DO

Professor Rounds Award – 2nd Place:
Kayla Heller, MD

Professor Rounds Award – 3rd Place:
Meghan Mobley, MD and Ashley Matthews, MD

Resident - Research Award – 1st Place:
Jill Hanson, MD

Resident - Research Award – 2nd Place:
Voytek Slowik, MD

Clark W. Seely Award:
Rodrigo Rios, MD

Nursing Unit of the Year Award: 4 Sutherland

Nurse of the Year Award:
Amy Altergott
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Health Sciences Library and The Kreamer Resource Center for Families

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