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Recommended Citation

Children's Mercy Hospital, "Graduate Medical Education 2014-2015 Annual Report" (2015). *GME Annual Reports*. 6.

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GRADUATE MEDICAL EDUCATION

2014-2015 annual report



Children's Mercy
KANSAS CITY





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Children's Mercy Kansas City is one of the United States' leading free-standing independent pediatric medical centers, offering 354 licensed beds, more than 40 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 Report, and we were the first hospital in Missouri or Kansas to receive 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 600 faculty members provide clinical expertise, leadership in medical education to the physicians and nurses of the future, and innovative cutting-edge pediatric medical research to discover treatments and cures for tomorrow. Children's Mercy is nationally recognized for innovation in creating a family-centered environment that is focused on the unique needs of hospitalized children and their families. Our Continuing Medical Education program has received Accreditation with Commendation from the state of Missouri.

CONTACT

Graduate Medical Education

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[Facebook.com/ChildrensMercyGME](https://www.facebook.com/ChildrensMercyGME)



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REGIONAL LEADERSHIP IN PEDIATRIC CARE REQUIRES COLLABORATION

When it comes to taking care of children, physicians in the Kansas City area, the Midwest and across the nation are connected by their educational experiences at Children's Mercy.

"Whether it's my child, your child or your neighbor's child, if you live in the Kansas City area, at some point they will likely be cared for by someone who trained at Children's Mercy," said Susan Hathaway, PhD, Vice Chair/Administrative Director of Graduate Medical Education. "For that reason, we see it as our responsibility to provide these physicians with the best educational experiences possible."

To do so requires teamwork—teamwork among educational institutions, faculty, hospitals, physicians and learners.

"Though collaborating across institutions and even state lines is complex, by working together we are raising the bar for pediatric medical education in the region and opening doors to new opportunities," Dr. Hathaway said.

Each year more than 800 medical students, residents and fellows representing nearly every medical specialty rotate through the hospital's educational programs. Some medical students may only be here for a month for an elective rotation, while others are here for an extended period during their residency or fellowship.

Many of these learners have long-standing relationships with the University of Missouri Kansas City-School of Medicine, the Kansas City University of Medicine and Biosciences and hospitals such as Truman Medical Center and Saint Luke's Hospital. UMKC also is the

REACHING ACROSS BORDERS ENRICHES MEDICAL EDUCATION

institutional sponsor of many Children's Mercy programs, including the Internal Medicine Pediatrics Residency, which is a joint venture between Children's Mercy, Saint Luke's Hospital and Truman Medical Center. In addition, Children's Mercy trains residents and fellows from across the region and the United States.

A collaborative initiative also exists with the Department of Pediatrics at the University of Kansas School of Medicine. To pave the way, Michael Artman, MD, was named Professor and Chair, Departments of Pediatrics, UMKC, Pediatrician-in-Chief at Children's Mercy, and Chair of the Department of Pediatrics at KUMC. That makes him the nation's only chair of two different departments in two different medical schools in two different states, and truly the leader of a unique collaboration.

"Ultimately, our objective is to capitalize on our strengths, promote teamwork and avoid duplication of services," Dr. Artman said. Already there are successes to celebrate, like the formation of the new pediatric palliative medicine fellowship and a new fellowship spot for research in clinical child psychology.



Jane Knapp, MD, Medical Chairman; Vesta Richardson, MD, Minister of Health, State of Morelos, Mexico; John Cowden, MD, MPH

In just six short years, Children's Mercy has developed its educational relationships with hospitals in Mexico from memorandums of understanding to rich learning opportunities for residents and fellows.

In March 2015, a team from Children's Mercy traveled to two Mexican hospitals to further cultivate the programs that make these partnerships possible.

"If you are a resident or fellow who is interested in our global health track, these new relationships represent opportunities to immerse yourself in the Mexican culture, learning about its health care system, values and beliefs," explained John D. Cowden, MD, MPH, Medical Director, Office of Equity and Diversity.

"From our perspective, because our cultures are so closely intertwined, to practice pediatrics effectively in the United States today, it is becoming increasingly important for every pediatrician to have an understanding of the Mexican culture and health beliefs."

"Residents and fellows on both sides of the border want the option for a multicultural medical education that goes beyond the clinical. Such partnerships give residents and fellows a chance to practice their language skills, both Spanish and English. This benefits their patients, but they also learn about very sophisticated medical systems."



The hospital's commitment to our residents and fellows is to provide them with the opportunity to participate in an international health experience. That puts Children's Mercy on the leading edge of pediatric medical education today.

- John Cowden, MD



Hospital Infantil de México Federico Gómez, México City

With 20 pediatric specialties and more than 300 beds, Federico Gómez is the largest children's hospital in Mexico and a major referral center. "Because Federico Gómez is a specialty center, we think this will be a good opportunity to exchange fellows between the two institutions," Shah explained.

Hospital de Nino DIF in Pachuca, Hidalgo, México

The Hospital de Nino DIF in Pachuca, Hidalgo, México cares for children with issues rarely seen at United States pediatric hospitals, including tuberculosis, and many advanced chronic conditions. Without this experience, most Children's Mercy residents would never see patients with these illnesses.

In most cases, general pediatric residents will travel to Pachuca to study, and vice versa.

Relationships with both hospitals emphasize clinical practice, research, advocacy, teaching and education. Exchanges last about one month and can be tailored to the participant's interests.

"We want this to be a memorable experience for our residents and fellows who travel to Mexico, and their residents and fellows who come to Kansas City," Shah said.

"This is an equal partnership," adds Jane Knapp, MD, Chair, Medical Education. "We are not the only ones with something to offer. Our residents and fellows learn a great deal about the language, culture and health care system of the other country when they study internationally."

In addition to the relationships above, Jennifer Watts, MD, Director of Global Health, has assisted trainees in exchanges with other international hospitals:

- Universidad Autonoma del Estado de Morelos, Cuernavaca, México (due to travel restrictions, Children's Mercy residents cannot travel to Cuernavaca, but Cuernavaca can send residents here)
- Hospital del Nino, Panama
- Mater Dei Hospital, Malta
- Philippine Children's Medical Center, Fabella Hospital and San Lazaro Hospital for Tropical Diseases, Philippines

Dr. Cowden said on average, eight to 10 residents and fellows take part in these exchanges each academic year, and he anticipates continued program growth.

SIGHT DECK PILOT

SightDeck (SID) is a high-definition presentation system that was donated to Children's Mercy Kansas City by the Kanter Family. It is used for live and recorded video of presentations, training and Web media. The technology is best understood visually — it essentially is like having a giant iPad for a presentation screen with all the functions of green screen technology at the same time. It was first used in the Fall 2013 by Jordan Metzel, MD, who presented Grand Rounds remotely from New York using a portable version of SightDeck. He was able to interact as if he were in Kansas City. The audience could see him and his presentation.

It was used for a live presentation in the auditorium in February 2014 by Grand Rounds speaker Tim Johnson, DO, and then again for Grand Rounds in 2015 by Jane Knapp, MD. Even trainees have gotten in on the action. Nikki Wood, DO, a hematology/oncology fellow, presented her pediatric residency Professor Rounds using the SightDeck technology.



The most fascinating use of SightDeck is when multiple speakers present from different locations and appear on screen together or when graphics are overlaid in real time. In this presentation (shown above) at the Online Learning Consortium National Conference, Susan Hathaway, PhD (in Kansas City) appears between multiple layers of graphics. She later interacts on screen with Kadriye Lewis, EdD (in Buena Vista, Fla.). They made a similar presentation at the Pediatric Academic Society (PAS) annual meeting. Graduate Medical Education is currently studying use of this technology to better serve the Children's Mercy community.

STAFF HIGHLIGHTS

Kelly Laurent, MS, C-TAGME, finished all her coursework for her PhD and is now ABD, or "All But Dissertation."

Kadriye Lewis, EdD, and Susan Hathaway, PhD, presented at the 20th Annual International Online Learning Consortium with a session on "SightDeck: New Frontiers in Group Telepresence and Distance Collaboration." Dr. Lewis was in Buena Vista, Fla., while Dr. Hathaway presented from Kansas City, Mo. They teamed up again to present on Performance-Based Assessment: Common Appraisal Errors and Flaws During the Evaluation Process at the National Meeting of the Accreditation Council of Graduate Medical Education (ACGME) in San Diego, Calif.


Kadriye Lewis, EdD, had two publications this year. One with Morgan JE, Wang LL, Calderon K, Rammel J, Ozer M.: Health Literacy Practices of Physicians and Patient Care Personnel in a Hospital Setting in the *Journal of Contemporary Medical Education* and the other with McVay-Dyche JM, Chen H, Seto TL: Examining Sense of Community among Medical Professionals in an Online Graduate Program in the *The Journal of Educators Online*.

Kadriye Lewis, EdD, and Jane Knapp, MD, presented on "Collaborative Technologies: Adopting Wikis in Medical Training Programs" at the ACGME Conference in March.

Jane Knapp, MD, Chair of Graduate Medical Education and Associate Dean and Professor of Pediatrics at the UMKC School of Medicine, delivered the Schorer-Pakula Dinner and Lecture giving her talk on "Treasures from the Archives of Children's Mercy Kansas City." She revised that talk for a very well-received Grand Rounds later in the year. Dr. Knapp was also recognized by the Department of Pediatrics with their annual Award for Exceptional Leadership.

Brenda Pfannenstiel, MALS, MA, AHIP, finished her term as MCMLA Immediate Past Chair and co-authored, "A Role for Comics in Patient Education" in the *MLA News* 2014; 54(5)9.

Keri Swaggart, MLIS, AHIP, completed her term on the MCMLA Education Committee (2012-2014).



Ross E. Newman, DO
Associate Program Director, Pediatric Residency Program



RESIDENCY PROGRAM

There is no denying that the Residency Program at 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 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 options they choose. To learn more about the Pediatric Residency Program at Children's Mercy, visit www.childrensmercy.org/GME or the Graduate Medical Education page at facebook.com/ChildrenMercyGME.

PEDIATRIC RESIDENCY PROGRAM



Denise Bratcher, DO
Program Director




Angie Etzenhouser, MD
Program Associate Director



Ross Newman, DO
Program Associate Director



Celeste Tarantino, MD
Program Associate Director



Julio Quezada, MD,
Pediatric Resident, QBS

“Children’s Mercy has an excellent reputation for training pediatricians with strong medical knowledge and clinical skills. While this level of expertise will always be necessary for pediatricians, a child’s overall health and well-being is greatly impacted by factors outside of the clinic or hospital setting. Pediatricians are uniquely qualified to lead their communities in addressing child health issues; however, doing so requires a skill set that is outside the scope of traditional residency training. By providing residents with these skills and empowering them to incorporate advocacy into their careers, we can positively impact the overall health and well-being of children on a much larger scale.”

- Molly Krager, MD

ADVOCACY PROJECT

An integral part of every resident’s second year, is the Community Health and Child Advocacy rotation led by Laura Plencner, MD, and Molly Krager, MD, both former chief residents and current faculty members. The rotation is structured around eight educational modules: legislative advocacy and media relations, homelessness, food insecurity, early childhood intervention, child abuse and neglect, domestic violence, environmental health and injury prevention. Each module is comprised of a combination of reading, research activities, reflection exercises and visits to community organizations.

Among other activities, the residents follow a family through a typical WIC visit, participate in a reflection activity at a shelter for victims of domestic violence, serve dinner at a food pantry, volunteer at a clinic housed within a daycare for children living in poverty, spend time at an organization that provides housing and support to homeless adolescents, and observe court proceedings for parents who are trying to regain custody of their children while recovering from drug abuse.

Some of the most impactful days are those spent visiting home environments of patients through the state’s early

intervention program, a nurse family partnership, and the health department’s lead investigation program.

These experiences not only allow the residents to take a closer look at the lives of their patients, gaining empathy for the struggles families may face on a daily basis, but also challenge them to think about how a pediatrician can partner with other stakeholders in the community to enact lasting change.

One of the most important messages conveyed during this rotation is that every pediatrician, even those who are still in training, can and should be a child advocate. The residents apply this concept by gaining some real-world experience. Each resident spends an afternoon learning about legislative advocacy and media relations. They then write and submit a letter about a child health topic of their choice to a media outlet. Ten residents have had the opportunity to see their letter appear in the Kansas City Star, educating the public about important issues such as the dangers of co-sleeping and the importance of using child safety seats appropriately.

Published Letters

Simran Arora, MD – “Transitioning Care”

Jeremy Avila, MD – “Sleeping with Babies”

Dave Butler, MD – “Cyberbullying Has Become a Common Problem for Teens”

Stephanie Clark, MD – “Keep Babies Safe”

Tessa Commers, MD – “Parents Should Work with Doctors in the Care of Children”

Kristin Johansen, MD – “Carbon Monoxide Safety”

Sara Kilbride, DO, RN, MA – “Going Smoke-Free”

Ashika Odhav, MD – “Protect Kids by Using Child Safety Seats”

Julio Quezada, MD – “Harsh Welfare Law”

Jay Sarthy, MD – “Vaccination Logic”



LETTER OF THE WEEK: PROTECT KIDS FROM HEAT STROKE THIS SUMMER

Loan Nguyen, MD | Pediatric Resident

With summer upon us, I remind everyone that children should never be left alone in a car — not even for a minute.

When the temperature exceeds 86 degrees Fahrenheit, the temperature inside a car can be 130. This can lead to health consequences within minutes.

According to Safe Kids Worldwide, heat stroke is the leading cause of non-crash, vehicle-related deaths for children. Some tips that may aid in heat-stroke prevention:

- Establish a routine check of your back seat every time you leave the car to make sure no one is left behind.
- Place personal belongings in the back seat for an additional reason to check the back seat.
- Because some parents go straight to work and might inadvertently leave a child in the car, set a cellphone alarm to the same time each day to remind yourself to drop off your child at day care or school.

Most important, call 911 if you see children unattended in a car. One call could save a life.



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 offers a quality training experience in an affordable and livable city. Unlike most, our residency program is comprised of three individual hospitals that come together to provide a diverse and excellent education.

“While our program’s environment and teaching services make for a successful experience, our personnel make the program excellent. Residents of our program are hard working, intelligent and dependable; but they are also feisty, opinionated and unrelenting,” said Sara Gardner, MD, Program Director, Internal Medicine/Pediatrics Residency.

Much like pediatrics, a successful learning environment requires teamwork. Faculty work closely with residents and meet with them weekly to ensure their needs are being met.

In order to effectively unify three individual hospitals, there is a shared Section of Medicine/Pediatrics within the Division of General Academic Pediatrics at Children’s Mercy and the Section of General Internal Medicine at the University of Missouri-Kansas City.



Sara E. Gardner, MD
Program Director, Internal Medicine/Pediatrics Residency

RESIDENT ACCOMPLISHMENTS

The Pediatric Residency Class of 2014 achieved a 100 percent Pediatric Board Pass Rate.

Nick Clark, MD, Pediatric Chief Resident, was presented with A Great Catch Award for effectively using QV&V (Question, Validate and Verify) Error Prevention techniques to promote patient safety. Dr. Clark's questioning attitude resulted in a child being correctly diagnosed and appropriately treated.

Kayla Heller, MD, presented on the Chiefs' project titled *Residents Experiencing Second-Victim Trauma (REST): Designing a Process to Support Residents After Adverse Outcomes* at the regional APPD at the Mayo Clinic in September, 2014.

Dave Butler, MD, et al published, *Clostridium Difficile Ileitis in Pediatric Inflammatory Bowel Disease: A Case Report and Literature Review*, January, 2015. *J Pediatr Gastroenterol Nutr*, 2015; 60 (1).

Ashley Bruns, DO, published Bruns AS, Sebestyen J. *Twelve-year-old Female with Nausea, Vomiting, Edema, Tremor, and Slurred Speech*. *Clin Pediatr (Phila)*. 2015; 54(2): 194-6.

Nichole Gubbins, MD, presented *Radiation Dose Reduction in the Pediatric Interventional Cardiovascular Laboratory: A Quality Improvement Study*, Midwest Pediatric Surgical Consortium, Ann Arbor, Mich. (September 2014) and at the CHOP Annual Meeting, Scottsdale, Ariz. (February 2015).

Residents presented the following posters

Chief Residents, Nick Clark, MD, Kayla Heller, MD, and Ashley Hiatt, MD, had their poster *Residents Experiencing Secondary Trauma (REST): Program Intervention at a Tertiary Academic Pediatric Hospital* accepted to the 2015 Annual Spring Meeting in Orlando, Fla. (March, 2015).

Jennifer Boyd, DO: *Assessment of the Practice, Comfort Level and Knowledge Among Endocrinologists Caring for Childhood Cancer Survivors – A Survey Study*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Ashley Bruns, DO: *A Quality Improvement Initiative To Decrease Unnecessary Streptococcal Antigen Testing*

in an Urban Pediatric Emergency Department, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

John Graham, MD: *B-Type Natriuretic Peptide Levels During ECMO Weaning are Associated with Survival to Hospital Discharge*, Pediatric Cardiac Intensive Care Society, Miami Beach, Fla. (December 2014).

Amber Hildreth, DO: (with Valentina Shakhnovich, MD) *Decreased Pregnane X Receptor (PXR) Expression in Children with Crohn's Disease*, Crohn's and Colitis Foundation of America, Hollywood, Fla. (December, 2014).

Whalid Hussain, MD: *Steroid Refractory Chronic Eosinophilic Pneumonia in a Child*, CHEST Conference, Austin, Texas (July 2014).

Kristin Johansen, MD: *Autoimmune Primary Adrenal Insufficiency Associated with Aseptic Meningitis from Tick-Borne Infection*, Endocrine Society National Meeting, San Diego, Calif. (March 2015).

Kelsee Leisner, MD: *Hidden Hypoglycemia: Vague Neuroglycopenic Complaints Camouflage Diagnosis of Adolescent Insulinoma*, Endocrine Society National Meeting, San Diego, Calif. (March 2015).

Ashika Odhav, MD: *Barriers to Treatment with Epinephrine for Anaphylaxis by School Nurses*, American Academy of Allergy, Asthma and Immunology, Houston, Texas (February 2015).

Brooke Polk, MD: *Co-sensitivity Patterns to Tree Nuts in a Pediatric Population*, American Academy of Allergy, Asthma and Immunology, Houston, Texas (February 2015).

Nick Townley, MD: *Pre-medication Prior to Intubation in Neonates*, American Academy of Pediatrics, San Diego, Calif. (October, 2014).

Grace Winningham, MD (with Benjamin Black, MD): *Guanfacine Use in Very Young Children: A Retrospective Analysis*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April, 2015).



FELLOWSHIP PROGRAMS

Children's Mercy continues to attract the best and the brightest candidates for our fellowships. Our fellows excel in their chosen subspecialty through their experience in pediatric education, research, administration and critical thinking. In 2014-2015, we had 85 fellows enrolled in fellowship programs.

"The Childrens Mercy fellowship programs provide our trainees with the opportunity to develop into top-notch subspecialists in clinical care, academic teaching and conducting research," explained Jane Knapp, MD, Chair, Graduate Medical Education, and Professor of Pediatrics, University of Missouri-Kansas City.

Children's Mercy offers the following fellowships in 2015-2016

Allergy/Immunology

Child Abuse Pediatrics

Child Neurology

Clinical Neurophysiology

Clinical Child Psychology Internship

Clinical Child Psychology Fellowship

Clinical Cytogenetic and Molecular Genetics

Clinical Pharmacology

Developmental-Behavioral Pediatrics

Neonatal-Perinatal Medicine

Pediatric and Congenital Cardiac Perfusion

Pediatric Adolescent Gynecology

Pediatric Cardiology

Pediatric Cardiology Advanced Imaging

Pediatric Critical Care Medicine

Pediatric Dentistry

Pediatric Dermatology

Pediatric Emergency Medicine

Pediatric Endocrinology

Pediatric Ethics and Genomics

Pediatric Gastroenterology

Pediatric Hematology/Oncology

Pediatric Hospital Medicine

Pediatric Infectious Diseases

Pediatric Nephrology

Pediatric Ophthalmology

Pediatric Optometry

Pediatric Otolaryngology

Pediatric Pathology

Pediatric Radiology

Pediatric Rehabilitation

Pediatric Surgery

Surgical Critical Care

Surgical Scholars

Pediatric Hospice and Palliative Care, Pediatric Pulmonology begins July 2016

FRONTIERS IN FELLOWSHIP TRAINING

Alex's Lemonade Stand—Developing a Biomarker for Ewing Sarcoma

Early in Glenson Samuel's Hematology/Oncology Fellowship at Children's Mercy, one of his patients was diagnosed and treated for Ewing Sarcoma, a bone and soft tissue cancer that affects more than 1,000 children and young adults worldwide each year. Throughout his fellowship, he also helped manage the care of several other Ewing Sarcoma patients at Children's Mercy.

"Long-term overall survival remains poor for Ewing Sarcoma," Dr. Samuel said. "Though my patient is now doing well, less than 30 percent of children with metastatic or recurrent disease survive."

As he cared for this child, and the several other children diagnosed with this deadly disease, he saw first-hand the need for a better way to determine treatment response and tumor recurrence. "Currently, we monitor the disease with PET, MRI and bone scans," he said.

"The idea was to develop a non-invasive biomarker for Ewing Sarcoma to allow for quicker and more accurate disease assessment," he explained. A biomarker also would allow patients who are likely incurable with standard therapies to be considered for treatment with more intensive regimens or novel agents earlier in the course of their disease by their treating physicians.

So when Dr. Samuel concluded his fellowship in June 2014, he applied for a fourth-year fellowship as a clinical research scholar in Pediatric Hematology/Oncology at Children's Mercy, and a postdoctoral research fellow with The University of Kansas Medical Center, continuing a collaborative translational research project investigating the biomarker concept that he had helped initiate with his co-mentors and co-investigators during his Hematology/Oncology Fellowship.



Glenson Samuel, MD

Serving as Dr. Samuel's co-mentors and co-investigators are Kathleen Neville, MD, MS, Director, Experimental Therapeutics in Pediatric Oncology Program at Children's Mercy, and Associate Professor of Pediatrics, Divisions of Pediatric Clinical Pharmacology and Pediatric Hematology/Oncology; Andrew K. Godwin, PhD, Principal Investigator at the University of Kansas Medical Center, Professor and Director of Molecular Oncology, Pathology and Laboratory Medicine, Deputy Director, the University of Kansas Cancer Center, Chancellor's Distinguished Chair in Biomedical Sciences and Endowed Professor; and Safinur Atay, PhD, senior postdoctoral fellow and an expert in the field of exosome biology.

To Dr. Samuel's knowledge, he and his mentors are the only researchers in the nation investigating this concept in Ewing Sarcoma. He was even selected to receive national funding for his research from The Alex's Lemonade Stand Foundation as one of their Young Investigators. He also received regional funding for his research through The Midwest Cancer Alliance.



Jennifer Linebarger, MD,
MPH, FAAP

PARTNERSHIP MAKES PEDIATRIC PALLIATIVE CARE FELLOWSHIP POSSIBLE

With just a handful of fellowship programs across the nation focused on pediatric palliative care, a new fellowship offered jointly by Children's Mercy Kansas City and the University of Kansas Medical Center (KUMC) places it at the forefront of this field.

The Palliative Care Team (PaCT) at Children's Mercy started in 2003, making it one of the more established programs in the country. In 2014, the team met with 237 new patients and had an average daily inpatient census of 33, making it one of the busiest programs in the country as well.

"Hospice and palliative medicine fellowships were first recognized by the American Council for Graduate Medical Education in 2010," explained Jennifer Linebarger, MD, MPH, FAAP, Medical Director of Palliative Care, Children's Mercy Kansas City and Associate Professor of Pediatrics, University of Missouri-Kansas City School of Medicine. The palliative care fellowship at KUMC was one of the first 32 programs in the country to receive accreditation.

"We began discussing a possible partnership between Children's Mercy and KUMC in 2013, and we anticipate accepting our first fellow in 2016," Dr. Linebarger said.

Leading the fellowship are Dr. Linebarger and Lindy Landzaat, DO, hospice and palliative medicine fellowship director at KUMC.

"This one-year fellowship offers a rich and diverse clinical experience to prepare a fellow for a career in hospice and palliative care, as well as for the hospice and palliative medicine board exam," Dr. Linebarger said.

The fellow will spend about six months working with the PaCT at Children's Mercy, with the remaining six months balanced between KUMC, and other community organizations that provide palliative care. Additional components of the fellowship include didactic lectures, quality care conferences, journal club presentations, ethics case presentations, a scholarly project and a reflection project.

"We are seeing an increasing need for pediatric palliative care physicians," Dr. Linebarger said. In fact, a study published in the journal *Pediatrics* in 2013 showed only 50 percent of children's hospitals in the nation have a pediatric palliative care provider.

The fellow will work in an interdisciplinary and collaborative environment. A highlight will be the chance to experience the care delivered in Children's Mercy's Elizabeth J. Ferrell Fetal Health Center and the Beacon Program.

"The Fetal Health Center is a unique setting that provides prenatal integrated consults and allows healthy mothers to deliver their newborns at Children's Mercy so moms and babies can remain in the same hospital, regardless of how complex the newborn's medical condition," Dr. Linebarger said.

The Beacon Program offers a patient-centered primary care medical home for children with complex or systemic medical problems (e.g. cerebral palsy, neurodegenerative disease, genetic syndrome), mechanical devices (e.g. feeding tube, VP shunt, vagal nerve stimulator), and home or outpatient therapies.

"By the very nature of what we do, palliative medicine is a collaborative specialty," Dr. Linebarger said, "it seems only fitting that this fellowship should be the result of a unique collaboration between Children's Mercy and KUMC."



Carrie Striker, DHEd, MPS, CCP, FFP and Kathleen Kubes, Pediatric Perfusion Fellow

PEDIATRIC AND CONGENITAL CARDIOVASCULAR PERFUSION FELLOWSHIP

The Pediatric and Congenital Cardiovascular Perfusion Fellowship is the world's first and only post-graduate fellowship designed and developed to address the need for advanced training in pediatric and congenital perfusion.

"About 10 percent of all heart surgeries are performed on children," Carrie Striker, DHEd, MPS, CCP, FFP, Director, Pediatric and Congenital Cardiovascular Perfusion Fellowship said. "With the increasing complexity of the congenital heart disease patient population, advances in technology, and the demand to reduce morbidity and mortality, pediatric and congenital cardiovascular perfusionists must be well prepared to lead initiatives which improve outcomes."

The first fellow completed the program June 30, 2015. The second fellow began the program the summer of 2015.

Though only one PCCP fellowship position is available, applicants may be newly graduated or practicing perfusionists. All applicants must be interested in sub-specializing in pediatric and congenital cardiovascular perfusion.

The 12-month fellowship provides a comprehensive clinical and didactic curriculum focusing on congenital heart disease and extracorporeal intervention, research, publication, quality improvement and leadership in health services.

The fellow performs a minimum of 50 cardiopulmonary bypass, ECMO and VAD cases, participates in didactics and conducts a research project in quality improvement or original research, while learning all facets of the field.

"Our fellow is exposed to the highest level of clinical and educational experiences possible," Dr. Striker said. "Children's Mercy is setting the standard for pediatric and congenital perfusion, and that translates into better pediatric cardiac care for children here, and across the country."

For specific PCCP fellowship applicant requirements or for more information about the Children's Mercy program, visit www.childrensmercy.org/PerfusionFellowship or contact Dr. Striker at clstriker@cmh.edu.



PEDIATRIC PULMONARY MEDICINE FELLOWSHIP

Led by Wendy Estrellado, MD, the Pediatric Pulmonology Fellowship Program at Children's Mercy Kansas City is preparing to provide a comprehensive educational experience that prepares graduates to develop careers as leaders in pediatric pulmonary medicine.

"The Division of Pulmonary and Sleep Medicine is genuinely excited to have been approved to start a fellowship training program," said Chris Oermann, MD, Division Director for Pulmonology. The three-year training experience is ACGME approved and designed to promote expertise through outstanding clinical, academic, investigative and administrative instruction.

The clinical education curriculum includes care in ambulatory and hospital settings. As the only regional provider of care for children with respiratory disease, Children's Mercy encounters a broad array of respiratory pathology that includes complex, acute and chronic

pulmonary disease processes. Other elements in the clinical curriculum include a monthly journal club; pulmonology core curriculum; physiology tutorial and case conferences. Completion of the fellowship program will lead to American Board of Pediatrics certification in pediatric pulmonology and equips graduates to become leaders in the clinical, scholarly and educational arenas of pediatric pulmonary medicine. The program's first fellow will begin in July 2016.

"To develop the next generation of pediatric pulmonologists requires a high level of commitment not only by the trainee, but their mentors and training institution as well. Recognizing the importance of healthy breathing to overall health and the high rate of respiratory disorders in children, our faculty and staff are dedicated to provide our fellows with the highest quality training as they prepare for a successful career in Pediatric Pulmonary Medicine," said Dr. Estrellado.

CQPI TRAINING ACROSS THE CURRICULUM

The Continuous Quality and Practice Improvement Education Program was developed in 2011 to provide Children's Mercy faculty and staff with the training and tools necessary to identify, facilitate and complete successful and strategically guided improvement projects. CQPI is a didactic and experiential learning experience that is designed to continuously improve the quality and productivity of processes that impact the patient experience and outcomes. Continuous improvement education is available for all physicians, staff, students, trainees and contracted employees at Children's Mercy.

Today, the CQPI program consists of five levels of courses: basic improvement science, targeted improvement methods and tools, targeted project-based improvement methods and tools, comprehensive project-based improvement, and advanced improvement science and research. Since 2011, the program has trained more than 600 faculty and staff and facilitated improvement for more than 80 project teams. By way of assessment and evaluation, feedback from participants is considered and improvements are made to the program throughout the year.

CQPI for fellows and residents are two courses focused on targeted project-based improvement methods and tools. The objectives and purpose of these courses are aligned with the ACGME requirements for quality improvement and patient safety. The CQPI for Residents course is delivered on Fridays, once a month, through lecture and direct application of tools and concepts to an improvement project.

Each year the residents get to choose an area for improvement. In 2014, the team worked to improve pager-based communication between the residents and nurses. This year, they are working to improve HPV vaccination rates in the continuity clinic. The didactic portion of the fellow course consists of 10 hours of didactic and small group activities focused on the practical application of improvement methods and tools to a project in the fellow's clinical area of work.

An optional experiential portion of the fellow course is available, where one or more fellows are paired with a coach who advises and guides the fellow in completing the project and potentially presenting it at a scientific meeting. For the second year, GME has given a CQPI award to a fellow-led project. This year's winner was on the, "Creation of Laboratory Based Algorithm to Decrease Costs Associated with ACTH Stimulation Testing," by Patria Alba Aponte, MD, and Ryan McDonough, DO.



Jessica Schnell, DO, Pediatric Fellow, Emergency Department and Urgent Care



FELLOW ACCOMPLISHMENTS

Nate Hall, DO, was the KCUMB Alumni Association's Young Alumni Achievement Award recipient for 2014.

For the second year, a Children's Mercy child neurology resident won the KUMC Most Outstanding Neurology Resident of the Year award. Last year Tyler Allison, MD, won the award. This year, Britton Zuccarelli, MD, received the award.

Britton Zuccarelli, MD, had two abstracts accepted for the Child Neurology Society Case Reports, An 8-Year-Old Boy with Weakness and a 6-Month-Old Girl with Hypotonia and Bilateral Ptosis (August 2014).

Posters Presented by Fellows

Patria Alba, MD (with Ryan McDonough, DO): *Creation of a Laboratory-Based Algorithm to Decrease Costs Associated with ACTH Stimulation Testing*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Candace Allen-Jara, MD: *Autism Spectrum Disorder and Parental Health and Well-Being*, Society of Developmental and Behavioral Pediatrics, Nashville, Tenn. (September 2014).

Katie Barger, MD, and Kathryn Jackson, DO: *Electronic Depression Screening in Type 1 Diabetes*, Children's Mercy Kansas City National Healthcare Quality Week, Kansas City, Mo. (October 2014) and *Electronic Depression Screening in Adolescents with Type 1 Diabetes*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Nathan Beins, MD: *Long-Term Outcomes in Steroid-Resistant Nephrotic Syndrome Treated with Calcineurin Inhibitors*, Midwest Pediatric Research Consortium, Cleveland, Ohio (October 2014).

Benjamin Black, MD: *Assessing Risk of Valvular Heart Disease with Guanfacine Use*, Society of Developmental and Behavioral Pediatrics, Nashville, Tenn. (September 2014).

Benjamin Black, MD (with Grace Winningham, MD): *Guanfacine Use in Very Young Children: A Retrospective Analysis*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Jessica Brunkhorst, MD: *Neonatal End-of-Life Care and Parental Grief*, Midwest Society for Pediatric Research, Cleveland, Ohio (October 2014), Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Michelle DePhilips, MD: *Opioid Prescribing Practices in Pediatric Acute Care Settings*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Lina Huerta Saenz, MD: *Hypertension Assessment, Documentation and Evaluation in Turner Syndrome Patients Attending the Great Heights Clinic at Children's Mercy Kansas City*, Turner Syndrome Society, Jacksonville, Fla. (July 2014).

Nadia Ibrahimi, MD: *Esophageogastric Fistula: A Rare Complication of Fundoplication*, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition, Atlanta, Ga. (October 2014).

Natalie Jayaram, MD: *Adjusting for Risk Associated with Congenital Cardiac Catheterization: A Report From the NCDR® Impact Registry*, American Heart Association, Chicago, Ill. (December 2014).

Zi Yang Jiang, MD: *Evading Detection and Antibiotics Group A Streptococcus*, American Academy of Otolaryngology - Head and Neck Surgery, Orlando, Fla. (September 2014); *Hybrid Procedures for Congenital Cardiac Defects and Vocal Fold Function*, Society for Ear, Nose, Throat Advancement in Children, St. Louis, Mo. (December 2014); and *Internalization Rates of Different Strains of Group A Streptococcus*, American Society of Pediatric Otolaryngology, Boston, Mass. (April 2015).

Emily Killough, MD: *Diagnostic Agreement Using Still Photos Versus Video Imaging in the Evaluation of Child Sexual Abuse*, Helfer Society, Savannah, Ga. (April 2015).

Christina Low Kapulu, PhD (with Lisa Pham, DO): *Implementation Fidelity of the Parents' Evaluation of Developmental Status (PEDS) in Primary Care*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

John Luce, DO: *The Novelty of Fluctuating Tonal Influences in Bainbridge-Ropers Syndrome: A Case Report*, Association of Academic Physiatrist 2015 Annual Meeting, San Antonio, Texas (March 2015).

Erin Opfer, DO: *Imaging of the Ductus Arteriosus: Review of Normal Anatomy, Variants and Clinical Implications*, Society for Pediatric Radiology, Bellevue, Wash. (April 2015).

Ryan McDonough, DO: *QI: ACTH Stimulation Test Algorithm*, Children's Mercy Kansas City National Healthcare Quality Week, Kansas City, Mo. (October 2014) and *Insulinoma*, Endocrine Society, San Diego, Calif. (March 2015) and *Creation of a Laboratory-Based Algorithm to Decrease Costs Associated with ACTH Stimulation Testing* (with Patria Alba, MD), Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Laura Nilan, DO: *Compassion Fatigue in Pediatric Emergency Medicine*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).



Disa Wagner, DO, and
Sandeep Arya, MD,
Pediatric Critical Care Fellows

Lisa Pham, DO (with Christina Low Kapulu, PhD): *Implementation Fidelity of the Parents' Evaluation of Developmental Status (PEDS) in Primary Care*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Sandhya Ramlogan, MD: *Correlation of 2-D Strain for Intraoperative Assessment of Right Ventricular Mechanics with Admittance Catheters in Juvenile Pigs*, American Heart Association Scientific Sessions, Chicago, Ill. (November 2014) and CHOP, Phoenix, Ariz. (February 2015); and *Correlation of 2-D Strain with Invasive Measurements for Intraoperative Assessment of Right and Left Ventricular Mechanics in Juvenile Pigs*, American Society of Echo, Boston, Mass. (June 2015).

Valentina Shakhnovich, MD (with Amber Hildreth, DO): *Decreased Pregnane X Receptor (PXR) Expression in Children with Crohn's Disease*, Crohn's and Colitis Foundation of America, Hollywood, Fla. (December 2014).

Clarice Sinn, MD: *Functional Outcomes in the Management of Anti-NMDA Receptor Encephalitis Treated with Rituximab in Three Young Females: A Case Series and Review of Literature*, American Academy of Physical Medicine and Rehabilitation, San Diego, Calif. (November 2014).

Craig Sitzman, MD: *Novel Rapamycin Dosing Strategy Maintains Growth and Native Pulmonary Development in Newborn Mice*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Sanet Torres-Torres, MD: *Comparison of the BACTEC Peds Plus Blood Culture Bottle with the BACTEC Plus Aerobic Blood Culture Bottles for the Detection of Bacteremia in Pediatric Patients*, St. Jude's/Pediatric Infectious Disease Society, Memphis, Tenn. (February 2015).

Tim Ulrich, MD: *Direct Antiglobulin Test as a Sensitive and Specific Marker for Development of Hemolytic Disease of the Newborn in At-Risk Infants*, Torino, Calif. (October 2014).

Britton Zuccarelli, MD: *Use of Citrate in the Treatment of Combined D- and L-2-Hydroxyglutaric Aciduria*, Child Neurology Society, Columbus, Ohio, (October 2014); *Diagnostic Rate, Cost and Change-in-Care Following Genome and Exome Sequencing in Pediatric Neurodevelopmental Disabilities Refractory to Traditional Diagnosis*, American Society of Human Genetics, San Diego, Calif. (October 2014); and *Utility of Obtaining a Serum Basic Metabolic Panel in the Setting of a First-Time Nonfebrile Seizure*, American Academy of Neurology, Washington, D.C. (April 2015).

Presentations by Fellows:

Katie Barger, MD: *Reporting of Secondary Findings in Next Generation Sequencing: Should Genes Associated With Endocrinopathies be Included?* Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Jessica Brunkhorst, MD: *Clinical Bioethics (Session Moderator)*, Pediatric Academic Society Annual Meeting, San Diego, Calif. (April 2015).

Brian Dalton, MD: *Same-Day Discharge of Laparoscopic Cholecystectomy in Children and Pectus Excavatum: to Randomize or not to Randomize*, Annual Academic Surgical Congress, Las Vegas, Nev. (February 2015).

Marcie Goeden, MD: *Sudden Onset of Parkinsonism in 17-Year-Old*, Missouri Valley Child Neurology Colloquium, Saint Louis, Mo. (April 2015).

Katherine Gonzalez, MD: *Epidural Versus Patient Controlled Analgesia for Postoperative Pain Control after Pediatric Thoracotomy: a Retrospective Review and Differences in Antibiotic Utilization-Based on Primary Treatment for Pediatric Empyema*, Annual Academic Surgical Congress, Las Vegas, Nev. (February 2015).

Jill Hanson, MD: *Developing a Risk Stratification Model to Allocate Limited Asthma Resources*, American College of Allergy, Asthma and Immunology, Atlanta, Ga. (November 2014).

Emily Killough, MD: *Lit Review: Child Physical Abuse, Case Review: Child Physical Abuse*, Missouri SAFE-CARE Network, Columbia, Mo. (February 2015) and *Diagnostic Agreement Using Still Photos Versus Video Imaging in the Evaluation of Child Sexual Abuse*, Pediatric Academic Society, San Diego, Calif. (April 2015).

Matthew McLaughlin, MD: *Pediatric Traumatic Brain Injury for the First Responder*, Olathe Fire Department and EMS (October 2014) and *Talkin 'Bout My Generation*, American Academy of Physical Medicine and Rehabilitation, San Diego, Calif. (November 2014).

Tolulope Oyetunji, MD, MPH: *Risk Factors for Lumbar Laminectomy Surgical Site Infection in a Majority Minority Patient Population*, Western Orthopedic Association 78th Annual Meeting, Big Island, Hawaii (August 2014); *Hernia Repair with Contralateral Diagnostic Laparoscopy: Improving Cost-Effectiveness*, American Academy of Pediatrics National Conference and Exhibition, San Diego, Calif. (October 2014); *Respiratory Distress Syndrome After Traumatic Hemorrhagic Shock: More Than Just Vent Settings!* 2015 Critical Care Congress, Phoenix, Ariz. (January 2015); *Variability in Same-Day Discharge for Pediatric Appendicitis: an Analysis of the KID Database and Radiation Exposure Trends in Children with Appendicitis: Is Image Gently Working*, Annual Academic Surgical Congress, Las Vegas, Nev. (February 2014); *Abdominal Compartment Syndrome in Traumatic Hemorrhagic Shock: Is There a Fluid Resuscitation Inflection Point Associated with Increased Risk?* Society of Black Academic Surgeons Annual Meeting, Chapel Hill, N.C. (April 2015); *Abdominal Compartment Syndrome, Cerebral Infarction and Acute Respiratory Distress Syndrome are the Biggest Risk Factors for Surgical Site Infections in Blunt Traumatic Hemorrhagic Shock*, Surgical Infection Society Annual Meeting, Westlake Village, Calif. (April 2015).

Mylinh Nguyen, MD: *Screening for Musculoskeletal Infections in Pediatric Patients*, National PEM Fellows Conference, Charlotte, N.C. (March 2015).

Sanet Torres-Torres, MD: *Girl with Fever and Altered Mental Status*, Kansas City Infectious Diseases Society, Kansas City, Mo. (September 2014).

Tim Ulrich, MD: *Evolution of the Heart Rate Corrected QT Interval in Premature Infants During the First Week of Life*, Neoheart Conference Torino, Calif. (September 2014).



MEDICAL STUDENT EDUCATION



Maria Dycoco, MD
Director of Medical Student Education

Dr. Dycoco earned her medical degree from the St. Louis University School of Medicine and completed her pediatric residency at Children's Mercy. She joined the Division of General Pediatrics in 2003, participating in medical student and resident education in the Pediatric Care Clinic and the newborn nursery. Dr. Dycoco was the 2011 recipient of The Wenner Award for Excellence in Medical Student Education.

She assumed her responsibilities as director of Medical Student Education in July 2014 after serving as associate director since 2007. During her time as associate director, she was the faculty advisor for the University of Missouri-Kansas City Pediatric Interest Group and provided oversight of the organization of the Annual Regional Medical Student Conference at Children's Mercy.

For the past two years, Dr. Dycoco also has worked on developing the standardized patient simulation program for the pediatric clerkship students. During these simulations, the students' communication skills are observed while interviewing a simulated adolescent patient and concerned parent via a phone call. The simulation gives students a 360-degree opportunity to evaluate their communication skills.



Robert Riss, MD
Associate Director, Medical Student Education

Dr. Riss is Associate Director, Medical Student Education and a pediatric hospitalist. He primarily works with the medical students who are fulfilling the inpatient component of their pediatric core clerkship at the Children's Mercy. Dr. Riss has been instrumental in bringing tablet technology and mobile learning to the medical education program. This technology makes textbooks, study questions, teaching videos, evaluations, and more at the students' fingertips. Dr. Riss integrated iPads into the clerkship two years ago and they have been very well-received. This work has contributed to his acceptance as an APA Scholar.

Dr. Riss has been with Children's Mercy since 2006, where he also performed his pediatric residency. He earned his medical degree from the University of Kansas School of Medicine.



Brian Burghardt, MD
Associate Director, Medical Student Education

Dr. Burghardt is an Associate Director, Medical Student Education. He joined Children's Mercy in 2009, and has been working in medical student education for about a year. In this role, he is involved with clinical teaching, proctoring students during clinic, and advises the Pediatric Interest Group.

He also runs the Children's Mercy Primary Care Clinic (PCC) rotation for second-year residents and the Research outpatient pediatric rotation. He is the lead physician in the PCC Purple POD and serves on the Teen/PCC patient-centered medical home workgroup.

Dr. Burghardt completed his pediatric residency at Children's Mercy and earned his medical degree from the Medical College of Wisconsin.



April Gerry, BS, Medical Student Coordinator

Ms. Gerry joined Children's Mercy in 2015 as Medical Student Coordinator for the Department of Graduate Medical Education. In conjunction with the directors, she organizes all aspects of medical student education for students rotating through the hospital in pediatrics.

She began her career in education at the University of Florida more than 15 years ago. She earned her bachelor's degree in 2010 while working for the university and continues to complement her academic advising skills sets, while building her strong foundation working with students and mentors. Her previous experience includes working as an educational training coordinator in the College of Medicine at the University of Florida, and in several academic advising positions.



CONTINUING MEDICAL EDUCATION

CME by the Numbers

In 2014, the Office of Continuing Medical Education offered 374 courses, worth 1,255.5 credit hours, to 7,610 physicians. Ten thousand six hundred three other health care professionals also attended and benefited from these educational programs, for a total of 18,213 attendees.

Included in the numbers are 56 online activities offered for credit. These include Grand Rounds online, and a number of CHEX modules in partnership with the Child Health Association. One thousand three hundred eighty two physicians participated in these activities, as did 1,764 other health care providers, for a total of 3,146 learners.

CME Highlights

- Received “accreditation with commendation” for six years — this is the longest accreditation available, and was a first for Children’s Mercy.
- Formation of the Grand Rounds subcommittee, which has provided additional structure to this important weekly programming. Dr. Kim Randell is the chair of this committee.
- Published CME guidelines, to further organize and structure our processes.
- Updated the CME database.

MASTERING GENOMICS

When Children’s Mercy established the first genome center in the world inside a children’s hospital, education was an integral part of its mission.

“Initially, we used one-hour lecture opportunities such as Grand Rounds, but we wanted to be able to provide our staff with a more detailed experience to bring them up to date on the cutting-edge science and research methodologies available at Children’s Mercy,” explained Sarah Soden, MD, Director, Center for Pediatric Genomic Medicine.

That’s when the concept for the Master Class in Genomic Medicine was conceived. The only continuing education course of its kind in the nation, two sessions have been offered so far to about 50 Children’s Mercy clinicians.

“We try to keep the class size small to encourage participation and interaction,” Dr. Soden said.

Coordinated by Dr. Soden and Emily Farrow, PhD, CGC, Laboratory Operations Director, and taught by the Center for Pediatric Genomic Medicine faculty, the course offers CME credit, and so much more.

“Our first two classes took place over four consecutive days,” Dr. Soden described. “Based on feedback from participants, our next class will be divided into two, three-day sessions.”

The first session will provide general information on genomic medicine to help participants grasp the services available at Children’s Mercy, the related ethical issues, and how genomic medicine can impact patient care. The second, which will be offered a few months later, will delve more into the science of genomics for those clinicians interested in a deeper level of understanding.

A hallmark of the course is the hands-on component that brings genomic medicine to life.

“We invite participants to literally roll up their sleeves and get familiar with the testing and software we have here,” Dr. Soden said.

The first step in developing these new skills is for participants to analyze 10 cases that already have



Sarah Soden, MD, and
Bradley Thornock, MPH, PhD,
Bioethics Fellow

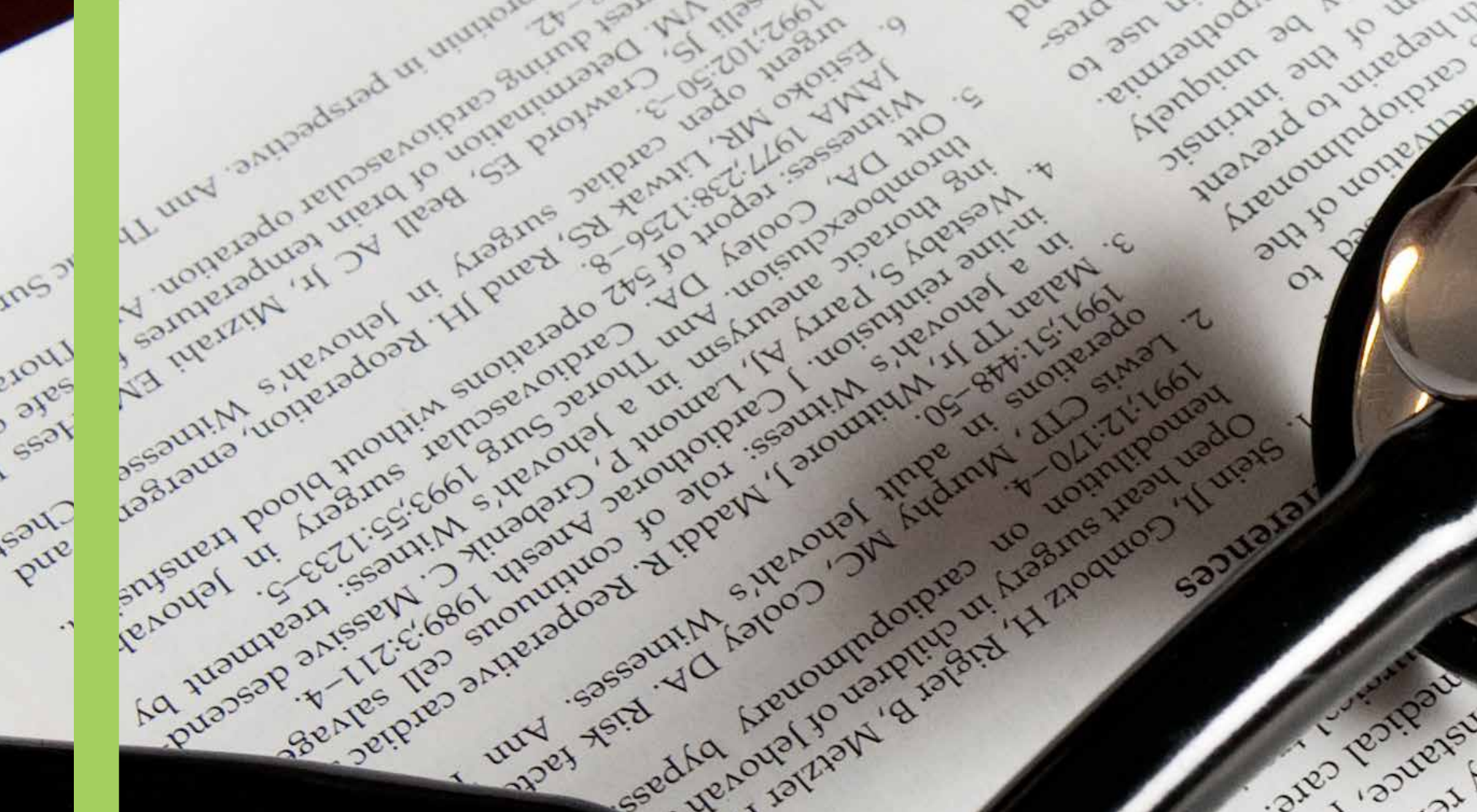
definitive results. The next step is to submit their own DNA for analysis using TaGSCAN (Targeted Gene Sequencing and Custom Analysis).

TaGSCAN was developed by the Children’s Mercy Center for Pediatric Genomic Medicine and uses next-generation gene sequencing technology and proprietary software to allow a symptom-based analysis to diagnose genetic diseases. The test is highly sensitive, screening 572 genes that cause serious pediatric diseases. TaGSCAN is performed on DNA extracted from a blood sample.

“Most people are carriers of one or more rare genetic disorders,” Dr. Soden explained. “By reviewing their own unique genetic code, clinicians learn how genomics can help identify inherited conditions and forecast the probability of future problems. This gives our clinicians a much better grasp of the human genetic variants; both normal genomic variability and disease-causing variants.”

And, because the Center for Pediatric Genomic Medicine is focused on translational research, at the conclusion of the Master Class, participants have the opportunity to consider the development of research projects.

“The Center for Pediatric Genomic Medicine is here for our clinicians. We encourage participants to think about how they could collaborate with us,” Dr. Soden added. “Ultimately, the Master Class has a ripple effect, creating a more knowledgeable clinician base that can better relate to the impact genomic medicine has on the lives of our patients and their families.”



LIBRARY SERVICES

Librarians enhance patient safety, clinical care and provider education through a variety of roles.

- A librarian attends Morning Report and provides chief residents with relevant materials to answer clinical questions or provide current literature supporting resident education.
- Participating in inpatient rounds allows clinical librarians greater insight into the information needs of the team and maintains open lines of communication for efficient delivery of timely and relevant literature.
- Professor Rounds is an additional opportunity for librarians to teach literature searching skills and instruct residents on resources available to augment information provided by mentors, as well as utilize as part of future patient care and research.
- Librarians orient new physicians, fellows, residents and nurse practitioners to the library resources and conduct literature searching instruction as part of the evidence-based practice graduate medical education requirements.
- Support of the Evidence-Based Practice Collaborative includes participation on guideline committees, feedback and revision of questions, provision of literature results, and search strategies to better inform decision making for guideline creation, special care questions or value analysis of products.



“This is by far, hands down, the best library sciences department with whom I have ever worked with. Constantly impressed by your rapidity, professionalism and attention to detail.”

-Library Patron

Library Services by the Numbers

- Link resolver was searched 57,059 times.
- 1,555 literature searches were performed by three librarians.
- 60 hours of formal, scheduled training sessions provided.
- 9,730 articles, reports and book chapters delivered.
- 2,386 items borrowed through interlibrary loan networks.
- 2,952 items loaned to other libraries through networks.



Photo by Bob Steckmest, University of Missouri-Kansas City School of Medicine



RESOURCES

Advanced Degrees and Certifications

Children's Mercy fellows and faculty are able to take advantage of additional professional development through advanced degrees and certificates at the University of Missouri-Kansas City.

University of Missouri-Kansas City Master of Science: Bioinformatics

The Master of Science in Bioinformatics supports the education of students interested in a career in bioinformatics or clinical research. Graduates master core competencies that allow them to participate in biological research, clinical and population health research, or research to develop innovative information systems. This program equips the next generation of health researchers by emphasizing patient-oriented research in the context of state-of-the-art medical informatics.



University of Missouri-Kansas City Graduate Certificate: Clinical Research

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

- Biostatistics
- Clinical Research Methods
- Clinical Epidemiology
- Clinical Trials
- Overview of Health Sciences Research

To learn more about the Master of Science, in Bioinformatics or the Graduate Certificate in Clinical Research program, visit www.med.umkc.edu/dbhi.

University of Missouri-Kansas City Graduate Certificate and Masters of Health Professions Education

Based on a core curriculum in applied educational research, the 36-credit hour Masters of Health Professions Education Program focuses on the development of expertise in teaching, instructional design, program evaluation, assessment, leadership and educational research. The first year of the master's 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 of 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. For the rest of the course, students and faculty discuss assigned readings online 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 cmhc@cmh.edu.



FAST FACTS

FY 2014

Inpatient Care

Admissions	13,639
Average Length of Stay (ALOS)	6.1
Average Daily Census (ADC)	253.2

Inpatients

Medical/Surgical	120.5
Intensive Care Nursery	61.7
Pediatric Intensive Care Unit	27.6
Total Children's Mercy Adele Hall Campus	211.0
Fetal Health Center	1.1
Children's Mercy South Patient Care Unit	15.5
Total Inpatient ADC	226.5

Outpatient Visits

Hospital Clinics	151,062
Children's Mercy South Specialty Center	60,247
Children's Mercy North Specialty Clinics	20,348
Children's Mercy East Specialty Clinics	6,759
Primary Care Clinics	70,204
Total Outpatient Visits	308,830

<i>Diagnostic Procedures and Treatments</i>	1,309,233
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Emergency/Urgent Care Visits

Children's Mercy Hospital Emergency Room	61,268
Children's Mercy South Emergency Room	38,499
Urgent Care College Boulevard	16,039
Children's Mercy Northland	26,657
Children's Mercy East Urgent Care Center	20,148
Total Emergency/Urgent Care Visits	162,611

Surgical Procedures

Inpatient	3,873
Outpatient Surgery	14,480
Total Surgical Procedures	18,353

<i>Employees: Full-Time Equivalent</i>	5,892
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HONORS AND AWARDS 2013-2014

Medical Student Education Awards

Barbara Allphin, MD, Residents as Teachers Award, Pediatrics: Walid Hussain, MD

Barbara Allphin, MD, Residents as Teachers Award, Internal Medicine/Pediatrics:

Ramy Sayed, MD

Laura L. Backus, MD, Memorial Award for Excellence in Pediatrics: Caitlin Nickols, MD

Resident Awards

Clinical Advances in Pediatric Symposium Resident Clinical Award: Kristin Johansen, MD

Clark W. Seely Award: Jennifer Boyd, DO

Daniel C. Darrow Award: Brad Barham, DO

*Edward R. Christophersen Excellence in Developmental and Behavioral Pediatrics Award:
Brad Barham, DO*

Emergency Medicine Award: Christy Scoby, DO, and Ryan Stone, DO

Hematology/Oncology Award: Lauren Amos, MD, and Nicole Wood, DO

Hospitalist Medicine Award: Brad Barham, DO

Mercy Award: Brad Barham, DO

Neonatal-Perinatal Medicine Award: Ashley Bruns, DO

Kenneth L. Wible, MD Award (previously known at the Pediatric Care Center Award):

Autumn Han, MD

Pediatric Critical Care Award: Brad Barham, DO

Professor Rounds Awards: First Place: Kelsee Halpin, MD

Professor Rounds Awards: Second Place: James Kim, MD

Professor Rounds Awards: Third Place: Christopher Miller, DO

Professor Rounds Honorable Mention: Sara Kilbride, DO

Resident Research Award; First Place: Jennifer Boyd, DO

Fellow Awards

*Fellow Quality Improvement Award: First Place: Patria Alba Aponte, MD, QBS, and Ryan
McDonough, DO*

*Fellow Quality Improvement Award: Second Place: John Luce, DO, Matt McLaughlin, MD,
and Clarice Sinn, DO*

Fellows Research Award: First Place: Emily Killough, MD

Fellows Research Award: Second Place: Craig Sitzman, MD, and Jaszianne Tolbert, MD

Fellow Teaching Award: Tyler Allison, MD

Faculty Awards

Clinical Advances in Pediatric Symposium Faculty Clinical Award: Emily Kucera, MD

Outstanding Teaching Section Award: Hospital Medicine

Daniel Scagliotti Educator of the Year Award: Renee Cation, MD

Nursing Awards

Nursing Unit of the Year Award: 6 Henson


Nurse of the Year: Micah Wallace, RN, CPNP



Brad Barham, DO
Daniel C. Darrow
Award Recipient



Renee Cation, MD
Daniel Scagliotti
Outstanding Educator
Award Recipient



Natalie Jayaram, MD
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