1. Ortho Surgery (Spine)
Through the use of advanced visual technology or direct observation in the operating room, the participant will observe the surgical implantation of material into the spine for medical conditions in which these implantations provide benefit and improved quality of life. This rotation experience is designed to take the Discover Children’s Mercy participants from the pre-operative meeting between the surgeon and the advanced practice nurse to the postsurgical follow up visit with the patient and family. In essence, this rotation will mimic a patient and family experience.

2. Cardiac Thoracic Surgery (Heart)
Children’s Mercy Hospitals and Clinics has one of the busiest Heart Centers in the country. A uniquely designed surgical area that connects two operating room suites to a bio-engineering laboratory, as well as, a hybrid-capable Cardiac Catheterization (Cath) Laboratory, allow the physician to perform complex heart-related procedures less invasively. This groundbreaking research directly linked to pediatric arteries and “living” replacement heart tissue could alter the way the world views pediatric heart care in the future. During this rotation, participants will observe key elements within the Center to include: Cardiology, Cardiac Catheterization Laboratory, Research, and Operating Room where state-of-the-art technologies and care can be visualized. When possible, an actual cardiac surgery will be observed either using technology or allowing direct observation.

3. Cardiac (Heart) Catheterization Lab (CV Lab)
The Cardiac Catheterization (Cath.) Laboratory at Children’s Hospitals and Clinics performs diagnostic assessments and catheter treatments for congenital heart defects. Catheter treatments, using techniques such as balloon angioplasty, stents, and defect closure devices, are less invasive treatment options that allow hundreds of children each year to avoid surgery and hospitalization. These procedures will be described in more laymen's terms during the rotation. Participants will be provided with a tour of the lab and will be able to observe a procedure, when possible. The participant might consider both rotation 2 and 3 to gain a full understanding of how all of these areas work together to achieve optimal outcomes for children and adolescents with a heart defect.

4. Intensive Care Nursery (ICN)
Children’s Mercy Hospitals and Clinics is recognized as one of the leading neonatal intensive care nurseries across the country designated as a “level IIIC,” the highest level you can achieve. This 65-bed Intensive Care Nursery (ICN) is staffed with more than 20 neonatologist, more than 60 neonatal nurse practitioners, and 250 registered nurses. This ICN is equipped with some of the most advanced technology available in the care and treatment of fragile or imperiled newborns. A comprehensive approach is used in the evaluation, treatment, and management of this complex patient population utilizing the knowledge and expertise of multiple professional disciplines resulting in optimal outcomes. Participants will observe this clinical team in action and witness the effective interaction between the clinical team and the parents, as well as, the courageous stories of the patients and families that have sought treatment at Children's Mercy.
5. Pediatric Intensive Care Unit (PICU)

The Pediatric Intensive Care Unit (PICU) provides care and treatment to critically ill or injured infants, children, and adolescents. This care is provided in a patient family-centered care environment utilizing an interdisciplinary approach utilizing the skills and expertise of the physician, nurse, respiratory therapist, pharmacist, and physicians-in-training. This interdisciplinary team has available to them advanced medical technology and pharmaceuticals for the treatment of a variety of conditions requiring the specialized skills of critical care trained physicians and staff. Participants will observe this team in action and will be provided a unique opportunity to engage with patients and their families, when possible, and learn about their experience firsthand.

6. Hematology/Oncology (Blood Disorders and Cancer)

The Division of Hematology and Oncology is comprised of two sections: the Section of Hematology (Hemophilia/Bleeding Disorders and Sickle Cell Anemia) and the Section of Oncology (Cancer and Bone Marrow Transplantation). This Division is one of the largest departments at Children’s Mercy Hospitals and Clinics, and the Oncology Program is accredited as a National Pediatric Cancer Center by the American College of Surgeons. Participants might encounter patients with conditions such as childhood cancers, adolescent cancers, bone marrow transplantation, sickle cell disease, hemophilia/bleeding disorders. The faculty will provide descriptions of various treatments which might include chemotherapy, bone marrow infusion, blood products transfusion, factor product infusion, and other supportive therapies. Patients and families and faculty could share their stories of how these treatments and services have impacted the lives of infants, children, and adolescents as real life testimonies. This rotation could take you Four Henson Tower (4HT) or the Hematology/Oncology Clinic or the newest unit, 4 Hall Tower or all of these.

7. Otolaryngology (Ear Nose and Throat)

The Ears, Nose, and Throat (ENT) Department is one of the busiest departments at Children’s Mercy, and the integration of Tele-medicine/Tele-health has provided a mechanism for more efficient use of resources without compromising the integrity of the services. This new wave of technology care is emerging across the country as an alternative to face-to-face consultation and diagnostic services. The relationship between the provider and the patient is essential and this technology promotes a trusting relationship while reducing non value added time that results from the provider having to travel from location to location. The demand for services will continue to grow while the workforce may struggle to keep us so efficient use of time and resources is critical. Participants will be provided with an intimate tour of the ENT (Otolaryngology) Clinic, Tele-medicine/Tele-health facility design, and the Operating Rooms where procedures are performed. In addition, the participant will observe ENT patients being evaluated and treated for a variety of ear, nose, and throat disorders and witness the clinical team in action either through face-to-face care or through the use of technology. The primary focus of this rotation is to present an overview of the types of services provided by ENT and the various technologies utilized in the diagnoses, care, and treatment of these conditions.

8. Rehabilitation Medicine

The Section of Rehabilitation Medicine at offers a collaborative interdisciplinary model of care for infants, children, and adolescents with physical disabilities that interfere with normal functioning. A team of diverse specialists provides early and intensive interventions to maximize a child’s function and development. Physical Therapists evaluate, plan, and implement treatment regimens for a unique patient population with physical limitations due to injury, illness, or developmental delays. Occupational therapists evaluate, plan, and implement treatment regimens for these unique patients with physical and psychosocial limitations due to injury, illness, or developmental delays. Participants will observe this highly gifted Rehabilitation Medicine team in action where the
specialized training and skills of the pediatric physical and occupational therapists at CMH&C will be highlighted. Advanced technologies and a therapeutic pool will capture the attention of the participant and will distinguish what sets this service above so many others across the country.

9. Pharmacy Services/Pathology and Laboratory Medicine

This rotation is different from the other rotations and includes two departments. It provides a more intimate observation of the general operations of these two departments. Each rotation lasts approximately 35 minutes and the faculty will primarily focus on the general operations whereas other rotations might incorporate treatment and procedural observational experiences over a longer period of time.

The Pharmacy Department strives to improve the health and well-being of the pediatric and adolescent patients by providing care that is tailored to their unique conditions. This care ranges from primary care to specialty care (Clinical Specialist) to the provision of care in the home and is offered in the midst of an ever changing integrated health care delivery system. Participants will observe Intelliflow (work flow), Oral Solid Packaging (re-packaging bulk into unit dose), and the general operations of a hospital based Pharmacy. In addition, the essential roles a hospital based pharmacist can occupy and the impact these roles can have on medication safety and treatment efficacy will be described. Finally, the Discover Children's Mercy participants will be enlightened to the unique characteristics of an academic setting where an accredited Pharmacy Residency Program exists and the advantages this brings to the organization and the patients it serves.

The Laboratory rotation provides a brief exposure to the testing performed in the Clinical Laboratory. This rotation will include an observation on the handling patient specimens/samples, describe how tests are performed, and include a brief discussion regarding how these results are used to make a diagnosis or to modify an existing treatment.

When possible, the rotation will target a patient or diagnosis that you might have been exposed to in one or more of the rotations outside of the lab. This is our attempt to connect the Lab services to a patient and demonstrate a “real situation” which can further enrich this experience. If there is a particular area or test within the Lab that strikes an interest for a Discover Children's Mercy participant this rotation can be tailored, at times, to target that area.

10. Orthopaedics (Sports Medicine)

The Center for Sports Medicine is comprised of a unique team of professionals with advanced training in Pediatric Sports Medicine. Sports Medicine has emerged as one of leading specialties in the treatment of sports related injuries. Evidence indicates the diagnosis, treatment, and recovery from these injuries should be managed differently from other orthopedic related injuries and through this distinction and specialized care patients are able to see improved outcomes and a more rapid recovery. The experienced providers at Children's Mercy understand the athlete.

Participants will observe the team in action and learn firsthand the unique stories of these children and adolescents being treated and recovering from a sports related injury. The Center staff will describe the goals of the Center and how Children's Mercy plays an integral part in the community and schools by providing education and risk reduction strategies in an effort to reduce the risk of injury or extensive harm secondary to this injury.

11. Radiology

The Department of Radiology is comprised of a team of board-certified and fellowship-trained Pediatric Radiologists, as well as, a team of highly qualified technologists who collectively provide a safe and comfortable diagnostic testing environment for infants, children, and adolescents. The Departments is equipped with some of the most advanced Imaging devices and facility design to accommodate each patient and their family. The integration of Child Life Specialists and non-invasive techniques to relax or alleviate fear and anxiety associated with these procedures has
resulted in wonderful outcomes that distinguish this Department from many across the country. Participants will hear the history of this evolution from the voice of the Radiologist while observing the team in action. In addition, participants will hear testimonies from staff regarding their strategies to minimize the exposure to excessive radiation (Image Gently Program) and to minimize the use of restraints and sedation (non-invasive techniques). Participant could observe the use of the MRI, CT, PET, or Fluoro devices while shadowing a Radiology Technician and meeting the Radiation Safety Officer.

12. Burn Unit

Children’s Mercy Hospitals and Clinics has one of the only Level I Trauma Centers in the country and the incidence of burns related to trauma is high. Infants, children, and adolescents from all over the mid-west seek care and treatment at this Clinic designed exclusively for the pediatric patient. Infection and mortality rates for this Unit are well below the national average. Participant will experience firsthand the physician role, the role of the nurse, and the effective interventions of the Child Life Specialist in assisting the patient through these painful procedures. When possible, the participant will be offered the opportunity to observe a burn treatment. The DCM participant will leave this rotation with an accurate picture of the experiences these unique patients go through, the resources dedicated to this treatment, and the important role each staff member plays in providing safe and effective care in a complex hospital system.

13. Transport Program

The Transport Program at Children’s Mercy is a 24 hour operations dedicated to the safe and effective transport of neonates, infants, children, and adolescents. This nationally recognized Pediatric and Neonatal Critical Care Transport Program has been awarded the “Transport Program of the Year” by the Association of Air Medical Services. The highly skilled team of physicians, nurses, respiratory therapists, EMTs, and communication specialists provide a bridge between CMH&C and the other medical facilities in an effort to provide the most advanced care and services for the neonatal and pediatric patients in the transport environment. Participants will be given a guided tour through the various transport vehicles, see demonstrations of the medical equipment used during these transports and learn from the staff themselves the strategies designed to promote a safe and effective transport. In addition, participants will be provided a virtual or guided tour through an Ambulance, Rotor Wing (helicopter), and the Fixed Wing (airplane). Unfortunately, the CMH&C Transport Program cannot offer a “ride-along” during this rotation.

14. Trauma Services

Children’s Mercy Hospitals and Clinics is recognized for having a Level One Trauma Center, the highest level in the industry. Trauma patients enter the hospital system through the Emergency Department and require a highly trained team of professionals that include: physicians, nurses, respiratory therapists, pharmacists, social workers, and Child Life Specialists. Because Children’s Mercy is dedicated to treating the patient/family as a whole each of these professionals are critical to the care and support provided during this very difficult time. The use of advanced simulation technology provides training opportunities to strengthen the skills of the team and promote optimal outcomes when responding to a real live trauma. Participants will observe a simulation where the Trauma Team is activated and provides a resuscitation intervention in the Emergency Department. Participants will learn about the team dynamics and communication strategies required for a successful response to a trauma. The effective operation of the Emergency Department is critical to the response and services provided to a trauma patient. Participant will be provided an in-depth look at the operation while shadowing with a physician and engaging with other professionals in the midst of an emergency setting. Critical positions in this setting are the Social Worker and Child Life Specialist and the participant will have the opportunity to engage with these professionals, as well.
15. Fetal Health Center
The Fetal Health Center is a unique service designed to provide comprehensive care for pregnancies complicated by suspected or diagnosed fetal anomalies. The Center provides diagnostic perinatal service and integrated prenatal evaluations and consultations allowing women with fetal complications and their family access to a full range of pediatric medical and surgical sub-specialty services. In addition to these prenatal services a select number of pregnancies will be offered on-site where the benefits from the immediate availability of life saving interventions during and after delivery can be realized. The selection is based heavily on the clinical stability of the mother and the services she will require at or following delivery. Participants will be provided a firsthand experience through simulation and observation a family receiving these unique services. Participants will follow the family all the way through the delivery simulation exercise. This is unique opportunity.

16. Ophthalmology (Eye)
The Section of Ophthalmology is led by physicians specifically trained in pediatric eye disorders. The Section provides medical and surgical management for the entire range of vision and eye problems in infants, children, and adolescents. This highly skilled team of physicians and technical staff provide treatment and services ranging from common eye problems such as blocked tear ducts, eyelid abnormalities and crossed eyes to rare and complex conditions such as pediatric cataracts, glaucoma, and tumors of the eye. Participants will learn firsthand about the roles and responsibilities of the various team members while observing the team in action as they provide treatment and services to the patients and families being served in both an inpatient and outpatient setting on the main campus. This is a unique experience that will leave you blinded with what you have seen.

17. General Surgery
The Department of Surgery at Children’s Mercy is one of the busiest departments in the hospital system. Through the use of advanced technology or by direct observation the DCM participant will observe a minimally invasive procedure in the Operating Room. The participant will be given the opportunity to interview the Operating Room surgeon and staff to gain a true understanding of this unique team comprised of a surgeon, an anesthesiologist, nurse(s), and technical staff work collaboratively and harmoniously to achieve optimal patient outcomes while providing a safe environment. Participants will follow this same patient from the Operating Room to the Recovery Area and to discharge if timing and opportunity presents itself.

18. Gastroenterology
Gastrointestinal endoscopy enables the pediatric gastroenterologists to see the inside lining of the patient’s digestive tract utilizing a flexible video instrument called a “scope”. This scope provides a technological method of visualizing the inside of the esophagus, stomach, portions of the small intestine, and the colon. Endoscopy (entering from the mouth and viewing the throat, esophagus, stomach) is used for diagnostic purposes as well as for the treatment of certain GI conditions. DCM participants will spend time with the team comprised of: a physician, a registered nurse with specialized training in Gastroenterology procedures and sedation, and the Anesthesiologist prior to the procedure and will have the opportunity to follow a patient and family through the preparation process through the actual endoscopy in the GI Procedure Room at Children’s Mercy. Colonoscopies are also performed in the GI Procedure Room but due to the nature of this procedure DCM participants will not be observing these.
19. Plastic Surgery

Deformities of the head, neck, face, and hands can be devastating to a child or adolescent and improving this can restore, for many, a positive self image that can lead to further healthy development. The Section of Plastic Surgery at Children’s Mercy is comprised of specialized trained and skilled surgeons where diagnostics evaluations and treatments and services are offered as a wide range of reconstructive and cosmetic for children and adolescents with congenital and developmental anomalies of the head, neck, and hands. Participant will witness this team in action and observe minor procedures being performed under local anesthesia. This unique team will share with the participant the many stories of success. This rotation will provide the participant with a true picture of the before and after stories that belong to the children, adolescents, and families that have chosen CMH&C.

20. Kidney Dialysis Program

The End Stage Renal Center (Division of Nephrology) at Children’s Mercy Hospitals and Clinics is certified by the Center for Medicare and Medicaid and includes a well established dialysis program. Infants, children, and adolescents who seek treatment at this Center are managed by one of the leading Centers in the country. In 2012, U.S. News and World Report ranked this Center as sixth best in the country. The Dialysis Program is dedicated to providing the highest quality of care to infants, children, and adolescents who are diagnosed with acute and chronic kidney disorders requiring renal replacement therapy with dialysis. Kidney transplants are also performed at Children's Mercy and the team will talk about this briefly. As one of the leading Centers in the country the clinical dialysis care of infants, children, and adolescents and the performance of dialysis related research designed to improve pediatric dialysis care and outcomes is a priority. Participant will see firsthand the operations of this leading Center and will gain a greater understanding of the dialysis patient, their treatment, the staff that treat them, and the unique stories of the patients and their family.

21. Transplant Services

Children’s Mercy offers transplants for liver, kidney, bone, and small bowel for the treatment of conditions where transplant is considered the best option for patients diagnosed with a variety of conditions. The Pediatric Kidney Transplant Program is the largest kidney transplant program in Missouri and Kansas and combined with the nationally recognized pediatric dialysis program are the key components that make up The Section of Nephrology. Together these currently rank as the sixth best in the country by US News and World Report. The Section provides the full spectrum of medical and surgical care for children with liver disease. The new Pediatric Small Bowel Rehabilitation and Transplant Program is one of only a handful of programs in the U.S. Participants will be provided a deep dive into the operations and these live saving treatment options and the stories of the patients and families whose lives have been impacted. This is an opportunity that few are given.