



University of Illinois, Metropolitan Group Hospitals Program in General Surgery

Rotation Title: Pediatric Surgery

Level of Training: PGY II, PGY IV

Attending in Charge of Rotation: Dr. Deborah Loeff

Faculty: Dr. Deborah Loeff, Dr. Grant Geissler, Dr. Grace Mak, Dr. Jessica Kandel, Dr. Andrea Lo, Dr. Mark Slidell

ASSESSMENT:

Competence in achieving stated objectives will be performed using the following methods:

1. 360 degree evaluation: end of rotation evaluation of resident performance to assess the Resident's demonstration of Core Competencies with respect to the stated objectives by faculty, other team resident members, students, and nursing staff.
2. Case Logs: auditing of operative cases pertinent to the specialty in the Surgical Operative Log.
3. Written Examination: performance on the annual ABSITE examination.
4. Patient Survey: performance will be assessed by patient surveys administered through the rotation.

COMPETENCY BASED LEARNING OBJECTIVES

Medical Knowledge

PGY II Residents:

- Complete readings in SCORE Curriculum as outlined both in SCORE website and outlined document on MGH website.

- Demonstrate proficiency at conducting a history and physical examination on a child of any age
- Demonstrate knowledge in starting an IV and drawing blood on a child of any age
- Apply ATLS standards to a child of any age
- Describe drug and electricity doses for cardiac life support in children
- Describe how to handle the airway and breathing for a child who has had a cardio respiratory arrest
- Be adept at applying cardiac compression in a child of any age
- Describe the basic differences between pediatric and adult general surgery such as, closing and not closing dirty wounds, doing a colostomy, how to approach rectal bleeding, and what problems are seen in children? How trauma is approached in children? How are burns approached in children?
- Describe the preoperative, operative, and postoperative care of children with problems associated with appendicitis, pyloric stenosis, intussusceptions, hernia inguinal, hernia umbilical, phimosis, undescended testicle, NEC, congenital abdominal wall defect, TEF, intestinal atresia, malrotation, Hirschsprung's disease, imperforate anus, biliary atresia, Wilm's tumor, neuroblastoma, congenital diaphragmatic hernia, GER, vascular access
- Complete readings in SCORE Curriculum

PGY IV Residents:

- Complete readings in SCORE Curriculum as outlined both in SCORE website and outlined document on MGH website.
- Describe and understand respiratory illnesses and ventilators including pressure, volume, and HFO
- Be adept with bilirubin metabolism in newborns and management of hyperbilirubinemia
- Describe the management of shock and sepsis in newborns
- Complete readings in SCORE Curriculum as outlined both in SCORE website and outlined document on MGH website.

PATIENT CARE

PGY II Residents:

- Perform effective subcuticular absorbable skin sutures in children
- Demonstrate competence in conducting an appendectomy, repair an inguinal hernia, perform a circumcision, repair an umbilical hernia, and perform a split thickness skin graft

PGY IV Residents:

- Perform effective endotracheal intubations in newborns
- Be adept at assisting in cannulation for ECMO, decanulate a patient on ECMO
- Demonstrate competency in conducting gastrostomy, Nissen fundoplication, inguinal hernia in a child less than a year and enterolysis in a child
- Perform effective pyloromyotomy operative reduction of intussusception
- Insert chest tube placement in a newborn and vascular access in newborns and children (central lines)

INTERPERSONAL AND COMMUNICATION SKILLS

PGY II and IV Residents:

- Display a friendly disposition that is conducive to successful interaction with team members and patients
- Communicate treatment plans with support staff and be able to listen and respond to patients and support staff questions in a positive manner
- Interact effectively with patients and family members from a diverse background
- Gather essential information from patients,; and accurately document patient encounters
- Interact with nurses, residents, attending surgeons and ancillary staff to achieve the health-related goals of the patient

PROFESSIONALISM

PGY II and IV Residents:

- Relate as a team member with other residents and fellows from other departments
- Relate with all patients and support staff politely and with respect
- Respond to pages and consults in a timely manner
- Respond to criticism and correction with calm and attentive demeanor
- Demonstrate appropriate dress and decorum while on duty
- Handle all patient information confidentially and not discuss it in hallways or other public places
- Use and know the chain of command on the resident service
- Demonstrate kindness, empathy and maturity in the interrelationship with patients with routine surgical problems

PRACTICE-BASED LEARNING AND IMPROVEMENT

PGY II Residents:

- Remain current on medical literature as it relates to surgical diseases and complications in children
- Be adept with online medical databases
- Teach medical students how to write surgical progress notes
- Demonstrate proficiency in applying resource management skills

PGY IV Residents:

- Remain current on medical literature as it relates to surgical diseases and complications in children
- Be adept with online medical databases
- Teach medical students how to write surgical progress notes

- Perform the duties of teaching junior members of the team in a effective manner
- Demonstrate proficiency in applying resource management skills

SYSTEMS-BASED PRACTICE

PGY II and IV Residents:

- Integrate closely with the total team of medical students, residents, and attending, caring for patients with surgical problems
- Utilize the expertise of other services and support personnel
- Demonstrate good patient advocacy skills
- Recognize and understand how different health insurance companies affect the treatment plan for patients

Reading Materials:

Educational materials which will function as guides for resident education during this course include but are not limited to:

1. The SCORE General Surgery Resident Curriculum Portal accessed at <https://portal.surgicalcore.org/home>
2. Schwartz's Principles of Surgery
3. Zollinger's Atlas of Surgical Operations
4. The Surgical Core Curriculum accessed via Access Surgery through the University of Illinois-Chicago website