

Pediatric Orthopaedics

Year

R-3

R-4

Location

Children's Medical Center (CMC)

Duration

3 Months (R-3)

2 Months (R-4)

Faculty

Michael C. Albert, MD

James T. Lehner, MD

Henry W. Albers, MD

Jeffrey L. Mikutis, DO

Description

The orthopaedic resident's rotation at CMC will expose the resident to the entire spectrum of pediatric orthopaedic conditions through clinical experience and educational activities. The residents will spend their time at CMC or the south outpatient office of the Pediatric Orthopaedic group.

Call will be taken at CMC and is at-home call. All duty hour rules are to be followed. When there are only two residents on the CMC service, the R-4 on spine will take call on the CMC schedule so that the duty hour requirements can be followed.

Educational Objectives

1. Work up and present a patient with common pediatric orthopaedic problems specifying the diagnosis, additional studies and treatment options. This should include the ability to take a detailed history and perform an accurate exam.
2. Describe the natural history of the patient's problem if untreated, treated nonoperatively and treated operatively.
3. Correctly assist and apply dressings, casts, braces, halo, and orthotics to protect postoperative conditions.
4. Demonstrate preop readiness by specifying the following for each case:
 - Surgical indication
 - Incision, approach relevant anatomy and step-by-step procedure
 - Expected difficulties and pitfalls
 - Contingency plans
 - Criteria of acceptable results
 - List equipment needed for the fixation of simple fractures
 - Demonstrate attention to detail in follow-up for postop patients
 - Recognize early complications
5. Demonstrate comfort with emergency management of pediatric fractures including closed reduction and casting and administration of hematoma blocks and sedation for performance of these procedures.
6. Residents will be part of a continuum of care for each particular patient.
7. Residents are required to participate in all didactic teaching activities at MVH.

8. Residents will participate in the Friday 6:30 a.m. case presentations and didactic lectures at CMC.
9. Residents will participate in monthly pediatric journal clubs.
10. Residents will have the opportunity to do research.
11. Residents are evaluated at the end of each rotation with a one-on-one assessment of his/her performance.

Competencies

Patient Care

Residents must be able to provide care that is compassionate, appropriate and effective for the treatment of health problems and the promotion of health. Residents are expected to:

- Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families.
- Gather essential and accurate information about the patient.
- Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
- Develop and carry out patient management plans, counsel and educate patients and their families.
- Use information technology to support patient care decisions and patient education.
- Provide healthcare services aimed at preventing health problems or maintaining health work with healthcare professionals, including those from other disciplines, to provide patient-focused care.

Medical Knowledge

Residents must demonstrate knowledge about established and evolving biomedical, clinical, and cognate sciences (e.g. epidemiological) and the application of this knowledge to patient care.

Residents are expected to:

- Demonstrate an investigatory and analytical thinking approach to clinical situations.
- Know and apply the basic and clinically-supportive sciences which are appropriate to general orthopaedic surgery.
- Lead the 6:30 a.m. CMC teaching conference (schedule provided).

Interpersonal and Communication Skills

Residents will at all times demonstrate behavior that is beyond reproach. Residents must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, patients' families and professional associates. Residents are expected to:

- Demonstrate honest, open, civil, and effective communication with patients, staff, and colleagues (medical students, residents, and attendings).
- Create and sustain a therapeutic and ethically sound relationship with patients.
- Use effective listening skills.
- Elicit and provide information using effective nonverbal, explanatory, questioning and *legible writing skills*.
- Work effectively with others as a member or leader of a healthcare team or other professional group.

Professionalism

Residents must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population. Residents are expected to:

- Demonstrate respect, compassion and integrity.
- Be responsive to the needs of patients, society and the profession.
- Be accountable to patients, society and the profession.
- Demonstrate a commitment to ethical principles pertaining to:
 - Provision or withholding of clinical care.
 - Confidentiality of patient information.
 - Informed consent.
 - Business practices.
- Demonstrate sensitivity and responsiveness to patient's culture, age, gender and disabilities.

Practice-Based Learning and improvement

Residents must be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidence, and improve their patient care practices. Residents are expected to:

- Analyze practice experience and perform practice-based improvement activities using a systematic methodology.
- Locate, appraise, and assimilate evidence from scientific studies related to their patient's health problems.
- Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness.
- Use information technology to manage information, access online medical information, and support their education.
- Facilitate the learning of students and other healthcare professionals.

System-Based Practice

Residents must demonstrate an awareness of and responsiveness to the larger context and system of healthcare and the ability to effectively call on system resources to provide care that is of optimal value. Residents are expected to:

- Understand how their patient care and other professional practices affect other healthcare professionals, the healthcare organization, and the larger society and how these elements of the system affect their own practice.
- Know how types of medical practice and delivery systems differ from one another, including methods of controlling healthcare costs and allocating resources.
- Practice cost-effective healthcare and resource allocation that does not compromise quality of care.
- Advocate for quality patient care and assist patients in dealing with system complexities.
- Know how to partner with healthcare managers and healthcare providers to assess, coordinate and improve healthcare and know how these activities can affect system performance.

General Schedule

- Attend all morning conferences.
- Attend patient office with the CMC Attendings. The Attending's schedule will vary depending on the number of residents on the rotation.

Reference List

- Practice of Pediatric Orthopedics by Staheli: You will read the entire text during your rotation according to the outline included. This is an excellent general overview of pediatric orthopedics presented in a very palatable fashion with superb illustrations and photographs. Be prepared to briefly discuss your assigned reading during our weekly conferences on Friday mornings.
- Journal articles will be provided to you from Journal of the American Academy of Orthopedic Surgeons, Journal of Bone and Joint Surgeons, and Journal of Pediatric Orthopaedics to complement your weekly reading.
- Weekly Friday morning case presentations based on assigned topics (please see enclosed 2-year schedule). The case presentations will cover general pediatric orthopaedic topics with the fourth Friday of each month usually covering a fracture topic. If there is a fifth Friday in the month we will select a number of interesting cases for presentation. The cases will be presented by both residents and attending and will consist of a case presentation followed by a brief overview of the topic discussed. Case presentations will be assigned on a rotating basis per the attached schedule.
- Journal Club will be held every 2 months at an attendings home.
- See attached schedule of conference topics.

Evaluation

- Review goals and objectives with attendings at beginning of rotations.
- Mid-rotation review.
- End of rotation written evaluation turned into Peggy Baldwin (both attending and resident).
- Duty hours and Op logs must be up to date at the end of the rotation, *before beginning the next rotation.*