

Foot and Ankle Service

Union Memorial Hospital

1. Rotation Goals and Objectives by Core Competency

General Goals & Objectives PGY 3 Year

A. 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:

- 1) Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients and their families
- 2) Gather essential and accurate information about the patient
- 3) Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.
- 4) Develop and carry out patient management plans, counsel and educate patients and their families.
- 5) Use information technology to support patient care decisions and patient education.
- 6) Perform competently all invasive procedures considered essential in foot and ankle practice.
- 7) Provide health care services aimed at preventing health problems or maintaining health work with health care professionals, including those from other disciplines, to provide patient-focused care.

B. Interpersonal and Communication Skills

Residents will, at all times, demonstrate behavior that is beyond reproach.

Residents must be able to demonstrate interpersonal and communications skills that result in effective information exchange and teaming with patients, patient's families, and professional associates. Residents are expected to:

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

C. 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:

- 1) Demonstrate respect, compassion, and integrity
- 2) A responsiveness to the needs of patients and society that supersedes self-interest
- 3) Accountability to patients, society, and the profession
- 4) Commitment to excellence and on-going professional development
- 5) Demonstrate a commitment to ethical principles pertaining to: Provision or withholding of clinical care

Confidentiality of patient information

Informed consent

Business practices

- 6) Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities

D. Medical Knowledge:

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

- 1) Demonstrate an investigatory and analytic thinking approach to clinical situations
- 2) Know and apply the basic and clinically supportive sciences which are appropriate to foot and ankle surgery

E. 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:

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

F. Systems-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 health care professionals, the health care 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 health care costs and allocating resources

- 1) Practice cost-effective health care and resource allocation that does not compromise quality of care
- 2) Advocate for quality patient care and assist patients in dealing with system complexities
- 3) Know how to partner with health care managers and health care providers to assess, coordinate, and improve health care and know how these activities can affect system performance

G. Detailed Objectives:

- 1) Workup and present a patient with a foot/ankle problem specifying the working diagnosis, additional studies to confirm or change the diagnosis, the treatment alternatives and expected outcome. This includes demonstrating the ability to take a detailed history and perform an accurate foot and ankle exam.
- 2) Recognize and take into account the lower extremity angular and rotational alignment, foot type, footwear, relevant biomechanics, and lifestyle.
- 3) Prescribe appropriate orthotics/prosthetics and shoe wear modifications.
- 4) Describe the natural history of the patient's problem if untreated, treated non-operatively and treated operatively.
- 5) Correctly assist and apply dressings, splints, and casts for protecting injuries and postoperative conditions.
- 6) Perform local anesthesia to include: ankle, metatarsal and digital blocks; field local infiltration; joint injection for pain localization.
- 7) Demonstrate pre-op readiness by specifying the following for each case:
 - Surgical indications and goals
 - Incision, approach relevant anatomy and step-by-step procedure
 - Three-dimensional considerations
 - Expected difficulties and potential pitfalls
 - Contingency plans
 - Criteria of acceptable result
- 8) Perform and assist surgical procedures for common foot and ankle problems:
 - hammertoe, bunions, tendon transfers, ankle subtalar and single joint fusions, excision of OCD's, osteotomies, ankle ligament reconstruction, removal of hardware.
- 9) List the equipment needed for all the basic procedures and demonstrate the ability to correctly review the completeness of this equipment before starting a procedure.
- 10) Demonstrate attention to detail in follow-up for postoperative patients.

- 11) Recognize the postop foot/ankle in trouble.
- 12) Demonstrate the ability to recognize and initiate treatment of complications.
- 13) Critique foot and ankle literature at the department and foot/ankle journal clubs.

2. Resident Supervision (Foot and Ankle Division)

The three full-time attendings that comprise the Union Memorial Foot & Ankle Service (Lew Schon , Greg Guyton, Stuart Miller MDs) expose the residents to a full spectrum of adult and adolescent pathologies in 6 weeks in the PGY-3 year in a one on one learning experience. Both surgical and nonsurgical management strategies are learned for handling this wide range of injuries and disorders. The resident is exposed to lower extremity injuries (e.g. metatarsal calcaneus, talar and plafond fractures) as well as partial foot and leg amputations. Management of systemic diseases that manifest in the foot and ankle are covered as well. Clinical, biologic and biomechanical research opportunities are available to those with a particular interest under the direction of Dr Schon, Janet Yu Jahiro or Mr Brent Parks. A weekly integrated foot and ankle conference is conducted with a mixture of case-based learning, didactic components and literature review. Throughout the year a monthly journal club run by Dr Schon allows residents of all years to participate in on-going learning.

The foot and ankle section works within the Department of Orthopaedics at Union Memorial hospital, a group of 24 orthopaedic surgeons who are nationally recognized as leaders in their respective specialties. The group includes the Curtis National Hand Center, also located at Union Memorial Hospital. This is an academic/private practice opportunity with access to several outstanding labs. In addition to the foot and ankle residents there is a foot and ankle fellowship program that is considered one of the top programs in the country. Our parent hospital organization, MedStar Health, provides an Institutional Review Board research infrastructure and funding for projects. A full state of the art Physical Therapy center is located one floor below the department.

There is a monthly departmental research committee meeting to provide an open forum for discussion, critical analysis, and creative input. A weekly multimedia foot and ankle conference combines case studies and didactics to supplement the educational experience. A foot and ankle hands-on learning center course is also organized for the residents and fellows in past years to consolidate their surgical skills. Advanced computer skills are taught throughout the year depending on resident interest including data management, slide show presentations, digital photographic editing, video production and editing, and creation of technical animations.

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3. Clinical Activities

The residents are supervised in clinic and the operating room with near constant and continuous one on one feedback by our clinical or research faculty. Each resident has approximately 40-50 hrs per week supervised in this fashion. In addition, the foot and ankle program director is available to meet with the residents every Friday following the foot and ankle conference and before and after the foot and ankle journal clubs. Additional meetings can be scheduled as requested by the resident, attendings or program director as needed. The residents work with several well established attendings engaged in private practices at the Union Memorial Hospital. Approximately 1,500 foot and ankle surgical procedures are performed annually, providing the resident the full gamut of foot and ankle reconstruction. UMH Residents, medical students and JHU Biomedical Engineering students rotate through the foot and ankle service. The residents have an active exchange with the attendings while they are on service, while on call, and when rounding. Physician assistants assist in hospital care of the patients. Fellows attend resident lectures and are part of the team that is responsible to teach the residents basic and advanced foot and ankle skills.

The fellows, residents, and allied health professionals work together in patient care in the office, clinics, hospital, and in the operating room. This outstanding experience, coupled with clinical and basic foot and ankle science research, will prepare the resident for both academic and private practice.

4. Required Readings

Foot and Ankle International (select volumes)

Surgery of the Foot and Ankle (Mann, Coughlin, Saltzman)

5. Didactic Activities

The program conference schedule is as follows:

Weekly Foot and Ankle conference

Participation in weekly resident's conference

Monthly Foot and Ankle Journal Club

Quarterly research meeting

Didactic lecture schedule in accordance with the Union Memorial Hospital residency academic schedule.

6. Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
<u>Schon</u> Clinic starts at 8 AM OR starts at 7:30 AM	UMH OR	Every other week UMH Clinic or ½ day clinic, ½ day OR	UMH Clinic	UMH OR	Foot & Ankle Conference (7 AM) UMH OR (8:30 start)
<u>Guyton</u> Clinic starts at 8 AM OR starts at 8 AM	AM Lutherville Clinic PM UMH Clinic	GCOA Surgery Center all day	All day UMH clinic or AM UMH Clinic/PM Belair Clinic	AM UMH clinic/PM Belair clinic or all day UMH OR	Foot & Ankle Conference (7 AM) UMH OR (8:30 start)
<u>Miller</u> Clinic starts at 8 AM OR starts at 8 AM	AM UMH Clinic PM UMH OR	All day clinic at UMH or Westminster	UMH OR	AM UMH Surgery Center PM UMH Clinic	Foot & Ankle Conference (7 AM) UMH Clinic 8 AM – 2 PM