

Learning Objectives – Orthopaedic Foot and Ankle Service

	Junior Resident	Senior Resident/Fellow
Patient Care	<p>Able to effectively develop the initial patient care and clinical skills to facilitate adequate evaluation of common Foot and Ankle conditions seen in adolescents and adults patients</p> <p>Demonstrates clinical skills that include:</p> <p><i>Medical Interviewing & Physical Examination</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to perform and document an effective patient interview <ul style="list-style-type: none"> ○ elicit the chief complaint ○ elicit a history of the presenting complaint(s) ○ obtain the past medical, surgical and social history ○ obtain a list of current medications ○ perform a review of systems - will demonstrate the ability to perform and document an accurate physical examination <ul style="list-style-type: none"> ○ determine the overall alignment the foot (planus, neutral, cavus) ○ identify the location of pain and tenderness to palpation ○ identify and note bony deformities ○ identify and note joint condition ○ identify and note tendon problems <p><i>Diagnostic Studies (selection, interpretation)</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to order the appropriate xrays (if indicated) to evaluate the presenting complaint(s) <ul style="list-style-type: none"> ○ know when weightbearing xrays of foot are indicated ○ know when non-weightbearing xrays of foot are indicated ○ know when know when weightbearing xrays of ankle are indicated ○ know when non-weightbearing xrays of ankle are indicated ○ know when full-length views of tibia-fibula are indicated ○ know when a CT scan of the foot, ankle or leg is indicated 	<p>In general a senior resident or fellow is expected to achieve the learning objectives of the junior resident in addition to:</p> <p>Demonstrates a refined set of clinical skills that include:</p> <p><i>Medical Interviewing & Physical Examination</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to perform and document a detail-specific patient interview <ul style="list-style-type: none"> ○ elicit the chief complaint ○ elicit a concise history of the presenting complaint(s) providing details pertinent to the presumptive diagnosis ○ obtain the past medical, surgical and social history providing details pertinent to the presumptive diagnosis ○ obtain a list of current medications ○ perform a review of systems - will demonstrate the ability to perform and document an accurate physical examination <ul style="list-style-type: none"> ○ determine the overall alignment the foot (planus, neutral, cavus) and comment on the presence of specific malalignments involving the hindfoot, midfoot and forefoot ○ identify the location of pain and tenderness to palpation providing details pertinent to the presumptive diagnosis ○ identify and note particular bony deformities ○ identify and note particular joint contractures or laxity ○ identify and note tendon imbalances <p><i>Diagnostic Studies (selection, interpretation)</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to order the appropriate xrays (if indicated) to evaluate the presenting complaint(s) <ul style="list-style-type: none"> ○ know when weightbearing xrays of foot are indicated ○ know when non-weightbearing xrays of foot are indicated ○ know when know when weightbearing xrays of

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	<ul style="list-style-type: none"> ○ know when an MRI of the foot, ankle or leg is indicated - will demonstrate the ability to provide a basic interpretation of the images <ul style="list-style-type: none"> ○ able to identify normal anatomy ○ able to describe pertinent positive findings ○ able to provide a basic correlation of xray findings with history and examination <p>Synthesis of Clinical Data, Differential Diagnosis</p> <ul style="list-style-type: none"> - will demonstrate the ability to analyze their findings to form a clinical impression for the cause of the presenting complaint(s) <ul style="list-style-type: none"> ○ able to formulate a brief differential diagnosis ○ able to include the most likely diagnosis in their differential <p>Formulate a Treatment Strategy</p> <ul style="list-style-type: none"> - will demonstrate the ability to formulate a basic plan of care <ul style="list-style-type: none"> ○ able to identify, describe and prescribe nonoperative options for the condition <ul style="list-style-type: none"> ▪ medications ▪ physical therapy ▪ orthotics, braces, casts and splints ○ able to identify, describe and discuss operative options for the condition <ul style="list-style-type: none"> ▪ formulate an basic operative plan containing the indicated surgical procedures <p>Demonstrate procedural and surgical skills with supervision appropriate to the level of training that include:</p> <p>Ability to Perform Essential Procedures</p> <ul style="list-style-type: none"> - will demonstrate the ability to perform the common procedures for outpatients and in-house consult <ul style="list-style-type: none"> ○ Splint and cast application ○ Joint aspiration/injection ○ Closed reduction of fractures of the foot, ankle and leg 	<ul style="list-style-type: none"> ankle are indicated ○ know when non-weightbearing xrays of ankle are indicated ○ know when and what special views of the foot and/or ankle are indicated to assess a particular condition ○ know when full-length views of tibia-fibula are indicated ○ know when a CT scan of the foot, ankle or leg is indicated <ul style="list-style-type: none"> ▪ know when contrast is indicated ▪ know when to request modifications to protocol to answer specific questions ○ know when an MRI of the foot, ankle or leg is indicated <ul style="list-style-type: none"> ▪ know when contrast is indicated ▪ know when to request modifications to protocol to answer specific questions <ul style="list-style-type: none"> - will demonstrate the ability to provide a concise diagnostic interpretation of the images <ul style="list-style-type: none"> ○ able to identify normal anatomy ○ able to interpret xrays in support of a presumptive diagnosis <ul style="list-style-type: none"> ▪ able to identify and describe pertinent positive findings ▪ able to identify and describe pertinent negative findings ○ able to discuss all xray findings in support or rule out of a particular diagnosis in correlation with history and examination <p>Synthesis of Clinical Data, Differential Diagnosis</p> <ul style="list-style-type: none"> - will demonstrate the ability to analyze their findings to defend/support their clinical impression for the cause of the presenting complaint(s) <ul style="list-style-type: none"> ○ able to formulate a detailed differential diagnosis <ul style="list-style-type: none"> ▪ rank likelihood of each possible diagnosis ○ able to determine the most likely diagnosis and support their conclusion <ul style="list-style-type: none"> ▪ discuss the individual clinical data used to
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	<ul style="list-style-type: none"> - will demonstrate the ability to perform basic surgical skills <ul style="list-style-type: none"> o identify the appropriate position of the patient for surgery <ul style="list-style-type: none"> ▪ know when the patient should be supine, lateral decubitus or prone ▪ know how to place patient in the appropriate position safely o perform the preparation and draping of the patient for surgery o identify the location of the incision(s) o know the basic details of the exposure(s) <ul style="list-style-type: none"> ▪ know the pitfalls, dangers and difficulties inherent to the exposure o know the steps to performing the procedure o know the layered closure of the exposure o know how to dress the wound o know how to immobilize the extremity properly after surgery <ul style="list-style-type: none"> ▪ applying the splint, cast or brace at the conclusion of the operation <p>Demonstrate ability to manage inpatients:</p> <ul style="list-style-type: none"> - will demonstrate the ability to provide postoperative inpatient care for foot and ankle patients after surgery <ul style="list-style-type: none"> o manage pain after surgery o manage known medical comorbidities after surgery o recognize the onset of acute postoperative decompensation o recognize postoperative complications - will demonstrate ability to develop and implement a management plans and initiate strategies including appropriate consultation with the supervising physician 	<p style="text-align: right;">reach their conclusion</p> <p><i>Formulate a Treatment Strategy</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to formulate a detailed plan of care <ul style="list-style-type: none"> o able to identify, describe and prescribe all nonoperative options for the condition and modify options specifically to fit the individual patient <ul style="list-style-type: none"> ▪ medications ▪ physical therapy ▪ orthotics, braces, casts and splints o able to identify, describe and discuss operative options for the condition and modify options specifically to fit the individual patient <ul style="list-style-type: none"> ▪ formulate an detailed operative plan containing the indicated surgical procedures individualized to a particular patient ▪ discuss reasoning for and against the inclusion or exclusion of a procedure from the surgical plan <p><i>Ability to Perform Essential Procedures</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to perform the common procedures for outpatients and in-house consult and supervise the junior resident through these procedures <ul style="list-style-type: none"> o Splint and cast application o Joint aspiration/injection o Closed reduction of fractures of the foot, ankle and leg - will demonstrate the ability to perform basic surgical skills and guide the junior resident with attending supervision <ul style="list-style-type: none"> o identify the appropriate position of the patient for surgery <ul style="list-style-type: none"> ▪ know when the patient should be supine, lateral decubitus or prone ▪ know how to place patient in the appropriate position safely ▪ know when and how to modify the position to fit the needs of an individual
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		<ul style="list-style-type: none"> ○ perform the preparation and draping of the patient for surgery <ul style="list-style-type: none"> ▪ know when and how to modify the prep and drape to fit the needs of an individual patient ○ identify the location of the incision(s) <ul style="list-style-type: none"> ▪ know when and how to modify the incision to fit the needs of an individual patient ○ know the basic details of the exposure(s) <ul style="list-style-type: none"> ▪ know the pitfalls, dangers and difficulties inherent to the exposure ▪ know when and how to modify the exposure to fit the needs of an individual patient ○ know the steps to performing the procedure <ul style="list-style-type: none"> ▪ know when and how to modify the procedure to fit the needs of an individual patient ○ know the layered closure of the exposure ○ know how to dress the wound ○ know how to immobilize the extremity properly after surgery <ul style="list-style-type: none"> ▪ applying the splint, cast or brace at the conclusion of the operation ▪ know when and how to modify the immobilization to fit the needs of an individual patient <p>Demonstrate ability to manage and direct inpatients:</p> <ul style="list-style-type: none"> - will demonstrate the ability to provide postoperative inpatient care for foot and ankle patients after surgery and supervise the junior resident activities <ul style="list-style-type: none"> ○ manage pain after surgery ○ manage known medical comorbidities after surgery ○ recognize the onset of acute postoperative decompensation and form a provisional diagnosis ○ recognize postoperative complications, identify the
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		<p style="text-align: center;">source of the problem and formulate a treatment plan</p> <ul style="list-style-type: none"> - will demonstrate the ability to recommend strategies to minimize the possibility of postoperative care complications - will demonstrate the ability to evaluate patients at varying postoperative intervals and modifies rehabilitation protocols as necessary;
	Junior Resident	Senior Resident/Fellow
Medical Knowledge	<p><i>Possess an appropriate fund of medical knowledge</i></p> <ul style="list-style-type: none"> - will be able to answer questions appropriate to their level of training correctly in the following areas <ul style="list-style-type: none"> o anatomy o physiology o biomechanics o disease-specific facts - will demonstrate willingness an ability to acquire new information <ul style="list-style-type: none"> o by his(her) actions and words, clearly show a desire to learn about all aspects of Orthopaedic surgery o by his(her) actions and words, clearly shows motivation to improve their abilities in all aspects of Orthopaedic surgery 	<p><i>Possess an appropriate fund of medical knowledge</i></p> <ul style="list-style-type: none"> - will be able to answer questions appropriate to their level of training correctly in the following areas <ul style="list-style-type: none"> o anatomy o physiology o biomechanics o disease-specific facts - will be able to discuss the current literature regarding the gaps and controversies surrounding a clinical issue - will demonstrate willingness an ability to acquire new information <ul style="list-style-type: none"> o by his(her) actions and words, clearly show a desire to learn about all aspects of Orthopaedic surgery o by his(her) actions and words, clearly shows motivation to improve their abilities in all aspects of Orthopaedic surgery o will model/mentor the ideal to the junior resident

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	Junior Resident	Senior Resident/Fellow
Practice-Based Learning & Improvement	<p><i>Recognizes gaps in knowledge and experience, uses constructive criticism to improve and applies scientific knowledge in daily duties</i></p> <p>Able to locate, appraise and assimilate evidence from scientific studies related to patients' health issues;</p> <p>Able to obtain and use information about his/her patient population and the larger population from which patients are drawn;</p> <p>Able to apply knowledge of study designs and statistical methods to the appraisal of clinical studies;</p> <p>Able to use information technology to manage information, access on-line medical information and support his/her own education;</p> <p>Able to facilitate the learning of medical students and other learners and other health care professionals on an informal basis in clinics, operating rooms and conferences;</p> <p>Ability to critically evaluate literature regarding Foot and Ankle conditons</p> <p>Ability to analyze the circumstances surrounding a complication and to formulate an improvement plan to improve future care.</p>	<p><i>Recognizes gaps in knowledge and experience, uses constructive criticism to improve and applies scientific knowledge in daily duties</i></p> <p>Easily and expertly locate, appraise and assimilate evidence from scientific studies related to patients' health issues;</p> <p>Easily and expertly obtain and use information about his/her patient population and the larger population from which patients are drawn;</p> <p>Easily and expertly apply knowledge of study designs and statistical methods to the appraisal of clinical studies;</p> <p>Easily and expertly use information technology to manage information, access on-line medical information and support his/her own education;</p> <p>Easily and expertly facilitate and coordinate the learning of medical students and other learners and other health care professionals on an informal basis in clinics, operating rooms and conferences;</p> <p>Easily and expertly critically evaluate and discuss with other learners the literature regarding Foot and Ankle conditons</p> <p>Easily and expertly analyze the circumstances surrounding a complication and to formulate an improvement plan to improve future care from an individual standpoint and from the perspective of the care team</p> <p><i>Be role model and peer-to-peer mentor to the junior resident. Actively guide them by your thoughts and actions to improve their capabilities</i></p> <p>Demonstrates leadership and responsibility for overseeing the care team.</p> <p>Assures that learners on the service are exposed to the breadth and depth of experience including the distribution of operative cases and procedures to ensure competency at all levels.</p>

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Interpersonal & Communication Skills	<p><i>Communicates effectively with patients, their families, professional colleagues and the allied health staff to work effectively as a member of a treatment team. Be able to interact with the leader and understand the challenges of being a leader of a treatment team</i></p> <p>Invites questions from patients and their families providing education regarding the patient’s condition and the treatment plan;</p> <p>Able to create and sustain a therapeutic and ethically sound relationship with patients and their families;</p> <p>Able to effectively communicate information via various methods;</p> <p>Able to work effectively with other members of a health care team;</p> <p>Provides necessary reporting to more senior residents, fellows and attending staff to ensure good patient care;</p> <p><i>Demonstrates good listening skills and presents information in a clear and concise manner highlighting salient features</i></p> <p>Respond to patient phone calls and communication from allied health professionals.</p>	<p><i>Communicates effectively with patients, their families, professional colleagues and the allied health staff to work effectively as a leader a treatment team.</i></p> <p><i>Be role model and peer-to-peer mentor to the junior resident. Actively demonstrate exemplary interpersonal interactions. Model and mentor to them the importance of good communication skills</i></p> <p>Invites questions from patients and their families providing education regarding the patient’s condition and the treatment plan and encourages all members of the care team to participate and contribute to the discussion</p> <p>Easily and expertly create and sustain a therapeutic and ethically sound relationship with patients and their families and include the members of the care team in this relationship</p> <p>Easily and expertly communicate information via various methods and teach all members of the care team these skills</p> <p>Easily and expertly with other members of a health care team and teach all members of the care team these skills</p> <p>Easily and expertly report to fellows and attendings to ensure good patient care and teach all members of the care team these skills</p> <p><i>Demonstrates good listening skills and presents information in a clear and concise manner highlighting salient features</i></p> <p>Respond to all inquires and messages from allied health professionals effectively and emphasize the importance of this skill to all members of the care team</p>

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Professionalism	<p><i>Demonstrates high standards of ethical and moral behavior, honesty and integrity, compassion and empathy, reliability and responsibility in his(her) daily activities as a member of the Orthopaedic Surgery Residency Program</i></p> <p>Effectively communicates and demonstrates care and respectful behaviors when interacting with patients and families;</p> <p>Maintains the strictest confidence in any and all interactions dealing with all patients;</p> <p>Demonstrates compassion and empathy</p> <p>Demonstrates respect, compassion and integrity in response to the needs of patients and their families;</p> <p>Demonstrates ethical principles pertaining to patient confidentiality</p> <p>Demonstrates the ability to practice culturally competent medicine</p> <p>Demonstrates sensitivity to the culture, age, gender and disabilities of patients;</p> <p>Promptly recognizes and acknowledges complications that arise;</p> <p>Maintain adequate documentation and timely completion of medical records;</p> <p>Complete teaching and rotation evaluations.</p> <p><i>Demonstrate Clinical Judgment (organize and prioritize information and tasks)</i> - will demonstrate the ability to direct him(her)self in fulfilling all the clinical responsibilities assigned to him(her) on a daily basis</p> <p><i>Demonstrates awareness of limitations (seeks advice/assistance when appropriate)</i></p>	<p><i>Demonstrates high standards of ethical and moral behavior, honesty and integrity, compassion and empathy, reliability and responsibility in his(her) daily activities as a leader of the Orthopaedic Surgery Residency Program</i></p> <p><i>Be role model and peer-to-peer mentor to the junior resident. Actively guide them and encourage the junior resident to internalize the ideals of professional behavior</i></p> <p>Effectively communicates and demonstrates care and respectful behaviors when interacting with patients and families and teaches all members of the care team these skills</p> <p>Maintains the strictest confidence in any and all interactions dealing with all patients and teaches all members of the care team these skills</p> <p>Demonstrates compassion and empathy and teaches all members of the care team these skills</p> <p>Demonstrates respect, compassion and integrity in response to the needs of patients and their families and teaches all members of the care team these skills</p> <p>Demonstrates ethical principles pertaining to patient confidentiality and teaches all members of the care team these skills</p> <p>Demonstrates the ability to practice culturally competent medicine and teaches all members of the care team these skills</p> <p>Demonstrates sensitivity to the culture, age, gender and disabilities of patients and teaches all members of the care team these skills</p> <p>Promptly recognizes and acknowledges complications that arise and teaches all members of the care team these skills</p> <p>Maintain adequate documentation and timely completion of medical records and teaches all members of the care team these skills</p>

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		<p>Complete teaching and rotation evaluations and teaches all members of the care team these skills</p> <p><i>Demonstrate Clinical Judgment (organize and prioritize information and tasks)</i></p> <ul style="list-style-type: none"> - will demonstrate the ability to direct all members of the care team in fulfilling all their clinical responsibilities assigned to them on a daily basis - ensures all clinical responsibilities of all the members of the care team are completely and properly performed on a daily basis <p><i>Demonstrates awareness of limitations (seeks advice/assistance when appropriate)</i></p> <p>Demonstrates an openness and honesty to admit limitations while leading the members of the care team and solicits the support and input of the team and of the attending</p>
	<p>Junior Resident</p>	<p>Senior Resident/Fellow</p>
<p>Systems-Based Practice</p>	<p><i>Demonstrates an ability to work effectively in various healthcare settings and systems, concern for an attention to patient safety and attentiveness to timely completion of records and necessary applications</i></p> <p>Able to use information technology to support patient care decisions and patient education;</p> <p>Able to coordinate health care services aimed at preventing health problems or maintaining health (OT, PT);</p> <p>Able to work with other health care professionals from various disciplines to provide excellent patient-focused careMaintains the strictest confidence in any and all interactions dealing with all patients;</p>	<p><i>Demonstrates an ability to work effectively in various healthcare settings and systems, concern for an attention to patient safety and attentiveness to timely completion of records and necessary applications</i></p> <p><i>Be role model and peer-to-peer mentor to the junior resident. Demonstrate your dedication to working effectively in the healthcare system. Keep up with your medical record responsibilities and encourage the junior resident to do the same.</i></p> <p>Easily and expertly use information technology to support patient care decisions and patient education and teach the members of the team these skills</p> <p>Easily and expertly coordinate health care services aimed at preventing health problems or maintaining health (OT, PT) and</p>

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	<p>Demonstrates knowledge of treatment plans and their impact on cost-effectiveness and efficiency of patient care;</p> <p>Acts as an advocate for quality of patient care;</p> <p>Able to assess, coordinate and improve the care of patients within the current health care model(s) or systems in the program [OT, PT and Rehab];</p> <p>Complete all requirements for compliance, risk management, and safety education.</p>	<p>teach the members of the team these skills</p> <p>Easily and expertly work with other health care professionals from various disciplines to provide excellent patient-focused care and teach the members of the team these skills</p> <p>Maintains the strictest confidence in any and all interactions dealing with all patients and ensures the members of the team do the same</p> <p>Easily and expertly demonstrates knowledge of treatment plans and their impact on cost-effectiveness and efficiency of patient care and educates the members of the team on these issue</p> <p>Easily and expertly acts as an advocate for quality of patient care and encourages the members of the team to do so</p> <p>Easily and expertly assess, coordinate and improve the care of patients within the current health care model(s) or systems in the program [OT, PT and Rehab] and teaches these skills to the members of the care team</p> <p>Complete all requirements for compliance, risk management, and safety education and encourages the members of the team to do so</p>
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