

ORTH8000

Orthopaedic Surgery AI

Course Goals

1. Develop the attitude, skills, and knowledge to be able to recognize the impact of the global and local health care system and its impact on patient outcomes.
 2. Develop the attitude, skills, and knowledge to communicate complex medical and personal information with patients, families, and all members of the health care team.
 3. Develop the attitude, skills, and knowledge to independently carry out the duties of an intern in orthopedic surgery.
 4. Develop the attitudes and skills necessary for self-reflection that leads to improvement in practice.
 5. Develop the attitude, skills, and knowledge necessary to exemplify the highest level of professionalism both in typical daily activities of an orthopedic surgeon intern and during times of stress and high patient volumes.
 6. Develop the attitude, skills, and knowledge necessary to apply medical knowledge to clinical diagnostic reasoning in a meaningful way to positively affect patient care and outcomes.
 7. Develop the attitude, skills, and knowledge necessary to use evidence-based medicine in clinical decision-making.
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Clinical Learning Objectives

Clinical

Interpersonal and Communication Skills

1. Effectively communicate with team members as exemplified by an ability to take/give sign-out/handoffs from other sub-interns and interns.
2. Effectively communicate with other health care providers that are relevant to their teams' discipline, including, but are not limited to: social workers, physical/occupational therapists, nurses, case managers, and pharmacists.
3. Perform oral presentations that are organized, accurate, complete, concise, and include prioritization, analysis and a plan for each of the medical issues.
4. Complete written communications that are organized, accurate, complete, concise, and incorporate prioritization and analysis of medical issues.
5. Effectively relay information to consulting services in such a way that the question for the service is clear.
6. Break bad news to patients and family members, discuss end of life issues or critical issues related to a dramatic change in a patient's lifestyle, and be able to conduct family meetings during which both positive and negative outcomes are discussed.

Interprofessional Collaboration

1. Interact respectfully with ALL members of the health care team, consultants and fellow physician providers.
2. Demonstrate an understanding of the importance of interdisciplinary team members, consultants and health care resources and how they impact the care and outcomes of a patient's hospital stay.

Medical Knowledge for Practice

1. Discuss the etiology, clinical manifestations and pathophysiology of fracture biology and healing, mechanisms of malunion, and nonunion
2. Apply medical knowledge in a meaningful way to positively affect patient care and outcomes.

Patient Care

1. Admit up to 3 patients on a shift and function as the intern for up to 8 patients.
2. Develop a clinically appropriate treatment plan for patients presenting with core signs, symptoms, and clinical issues encountered during this rotation.
3. Demonstrate consistent, complete and adequate data collection during history taking on the common illnesses

encountered during this rotation.

4. Perform a focused physical examination as indicated by the presenting complaint.
5. Develop the differential diagnosis for and an appropriate assessment of patients presenting with core signs, symptoms, and clinical issues encountered during this rotation.
6. Interpret the results of diagnostic tests.
7. Receive and send information to a patient's PCP or other relevant healthcare providers, demonstrating an ability to successfully apply the tenets of transitions of care learned during Phase 3.
8. Recognize the need for ordering initial and follow-up tests based on clinically indicated parameters.
9. Participate in and document cross-covering of the patients of other sub-interns or interns while you are on call.

Personal and Professional Development

1. Actively seek out feedback based on recognized deficiency in clinical performance.
2. Incorporate feedback from patients and colleagues in order to improve your personal performance, including but not limited to knowledge base, ability to communicate, efficiency, and responsibility for all aspects of patient care.

Practice-Based Learning and Improvement

1. Apply evidence-based medicine and statistical concepts such as likelihood ratios to make appropriate and meaningful clinical decisions on a daily basis.

Professionalism

1. Demonstrate a level of professionalism when working the number of hours of a resident in orthopedic surgery.
2. Demonstrate a commitment to carrying out professional responsibilities in a timely and efficient manner.
3. Adhere to ethical principles at all times as exemplified by the highest level of professionalism both in typical daily activities and during times of stress and high patient volumes, including the ability to maintain a professional attitude with challenging patients, colleagues, and other staff members.
4. Demonstrate sensitivity to a diverse patient population and culturally competent care by being sensitive to patient differences (race, culture, gender, socioeconomic status) and preferences.
5. Effectively and respectfully provide feedback to Phase 3 students with respect to their organization, oral presentation skills and communication skills.

Systems-Based Practice

1. Identify a medical error, evaluate where the system failed, and offer solutions to prevent the errors from recurring.
2. Identify areas where the health care team could have made alternative and accurate, cost effective decisions, including the ability to recognize the need for ordering initial and follow-up tests based on clinically-indicated parameters.
3. Demonstrate an understanding of resource utilization.

Observed Advanced Communication Project

Interpersonal and Communication Skills

1. Conduct a challenging communication scenario, such as breaking bad news, negotiating end of life and goals of care discussions, or actively participating in challenging patient/family meetings.

Personal and Professional Development

1. Receive and respond productively to feedback from faculty, residents, interprofessional team members and peers.

Didactic Learning Objectives

Case Presentations

1. Develop and present a comprehensive patient case presentation and discuss the treatment, with a focused literature review of the topic.

Mid-Point Feedback

1. Discuss an example utilizing feedback; the circumstances regarding the situation; how the feedback and outcome changed behavior; and self-reflection surrounding the feedback.

Quality Improvement Project

1. Identify medical error errors that are secondary to systems related problems.
2. Identify potential system-based solutions that could prevent similar errors.
3. Apply basic principles of quality improvement within the healthcare setting.