

Course Specification Card for Orthopedics

College	College of Medicine	Department	Medical Education		
Course Name (English)	Orthopedics	Course Name (Arabic)	العظام		
Course Number	1000512	Course Code	1000512		
Credit Hrs.	1.5	Contact Hrs.	Theoretical	Practical	T
Teaching Language	English <input checked="" type="checkbox"/> Arabic <input type="checkbox"/>			45	45
Teaching Method	<input checked="" type="checkbox"/> Face-to-Face <input type="checkbox"/> Online <input type="checkbox"/> Blended				
Course Nature	<input checked="" type="checkbox"/> Compulsory <input type="checkbox"/> Elective				
Course Type	<input type="checkbox"/> University Requirement <input checked="" type="checkbox"/> College Requirement <input type="checkbox"/> Program Requirement				
Level	Year 5	Pre-Requisite(s)	Block 4.2		

Course Description

To enable students to acquire basic working knowledge of Orthopedic Surgery to secure foundation in the subject on which they can subsequently build, whether for general practice, or further specialization, including diagnosis and management of common musculoskeletal conditions in primary care settings, identification of possible complications and learn their prevention and management

Topics

Basic bone biology
Principles of bone healing
Principles of fracture fixation
Long bone fractures
Metabolic bone diseases
Recent advances in orthopedic surgery
Approach to a patient with Fracture non-union
Approach to a patient with Musculoskeletal Infections
Approach to a patient with bone and soft tissue tumors
Approach to a patient with vertebral fractures
Approach to a patient with nerve injuries
Basic orthopedic radiology
Orthopedic Implants
Management of common orthopedic emergencies

Learning Outcomes

- Recognize the physiologic mechanisms that explain key findings in the history of common orthopedic diseases. (Which include Trauma, Sports, arthroplasty, Spine and Rheumatology)
- Describe the etiologies, pathophysiology, clinical features, differential diagnosis, and related diagnostic testing and management of common orthopedic diseases (Which include Trauma, Sports, arthroplasty, Spine and Rheumatology)
- Complete a patient's history and physical exam in a logical organized and thorough manner
- Evaluate and prioritize problems with which a patient presents, appropriately synthesizing these into logical clinical syndromes.
- Formulate a differential diagnosis based on the findings from the history and physical examination and apply differential diagnosis to help guide diagnostic test ordering and sequencing.
- Formulate an initial therapeutic plan (both surgical and non-surgical, whenever needed so) and explain the extent to which the therapeutic plan is based on pathophysiologic reasoning and scientific evidence of effectiveness.
- Summarize basic diagnostic tools and select a plan of management for common orthopedic diseases. (Which include Trauma, Sports, arthroplasty, Spine and Rheumatology)
- Recognize when additional information is needed to care for the patient and demonstrate ongoing commitment to self-directed learning.
- Demonstrate ability to answer clinical questions using evidence-based medicine.
- Demonstrate the competence of history taking in a logical manner for various musculoskeletal conditions and to reach to a differential diagnosis.
- Perform general examination in logical organized and thorough manner
- Perform local examination of the relevant musculoskeletal systems in logical organized and thorough manner
- Demonstrate use of interpersonal communication skills during history taking and examination of cases throughout the clinical training period

Observation of elective orthopedic surgeries	<ul style="list-style-type: none"> • Develop and implement a suitable plan of care for different musculoskeletal problems in a shared view with patients, relatives and peers, including breaking bad news. • Show skills of consultation with other physicians and other health care professionals with teamwork spirit. 					
Assessment Tools	<input type="checkbox"/>	%	<input checked="" type="checkbox"/> OSCE	30%	<input checked="" type="checkbox"/> Final Exam	40%
	<input type="checkbox"/> Assignments	%	<input checked="" type="checkbox"/> Continuous Assessment	30%	<input type="checkbox"/> Oral Participations	%
Main Reference	<ul style="list-style-type: none"> ▪ Mercer's Textbook of Orthopedics & Trauma, 10th Ed. ▪ McRae Clinical Orthopedics Examination, 6th Ed. (for Practical) 					
Supporting References	<ul style="list-style-type: none"> ▪ British National Formulary (www.bnf.org) ▪ Journal of Bone & Joint Surgery (JBJS-American & JBJS – British) ▪ Orthobullets.com ▪ Inkling.com ▪ Slideshare.com ▪ Uptodate.com ▪ AO Trauma website 					

