



JINNAH SINDH MEDICAL UNIVERSITY

STUDY GUIDE	
PROGRAM	MBBS
MODULE TITLE	ORTHOPEDICS MODULE
ACADEMIC YEAR	4th year MBBS- 2024
INTRODUCTION	Musculoskeletal diseases and injuries include conditions that affect joints, bones, muscles, the spine, and multiple body areas or systems such as connective tissues and blood vessels. An analysis of Global Burden of Disease (GBD) data in 2019 showed that globally approximately 1.71 billion people have musculoskeletal conditions. It is therefore essential to empower the students with core foundational knowledge related to the diagnosis, treatment, and prevention of musculoskeletal diseases and injuries.
RATIONALE	Orthopedics module is designed to presents knowledge and experience from clinical experts specializing in the area of trauma and orthopedic surgery. It is a review of in-depth clinical aspects of trauma and orthopedic surgery. The module builds upon the basic sciences knowledge gained during the Locomotor-1 & 2 modules in years 2 & 3 respectively.
OUTCOMES	By the end of the module, students will be able to justify management plans of common disorders related to Bones and joints by correlating the clinical conditions with the Pathophysiology
DEPARTMENTS INVOLVED	<ol style="list-style-type: none"> 1. Orthopedics 2. Radiology 3. Surgery
MODULE OBJECTIVES	By the end of the module, the students should be able to:

<p>LECTURES</p> <p>ORTHOPEDICS</p>	<p>1. Presenting problems and investigations of Musculoskeletal diseases</p> <ul style="list-style-type: none"> Describe the presenting problems and investigations of Musculoskeletal diseases <p>2. Fractures</p> <ul style="list-style-type: none"> Classify the different types of fractures Describe the specific types of fractures (hip, Colles', and pelvic fractures) Discuss the general principles of management of fractures Describe the therapeutic measures for different fractures, the principles of fracture treatment in children, and common complications of fractures Discuss the principles of fracture fixation <p>3. Back pain</p> <ul style="list-style-type: none"> Identify the most common conditions causing back pain Develop a plan for diagnosis and management of non-traumatic neck and back problems
<p>RADIOLOGY</p>	<p>1.Imaging of musculo-skeletal system</p> <ul style="list-style-type: none"> Explain the role of radiologic imaging in musculo-skeletal system diseases Describe the principles of MRI, isotope bone scans, and CT scans <p>2. Imaging of bone tumors & Other</p> <ul style="list-style-type: none"> List the techniques involved in diagnosis of bone tumors Identify common skeletal injuries on radiographic films (e.g. fractures and dislocations)
<p>SURGERY</p>	<p>1.Maxillo-facial injuries</p> <ul style="list-style-type: none"> Describe the mechanisms, assessment, and management of maxillo-facial injuries

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SKILLS TO BE LEARNT DURING WARD ROTATIONS	<p>Procedures (Observe):</p> <ul style="list-style-type: none">• Splinting• Intra-articular injections• Management of fractures
INTERNAL ASSESSMENT	<ul style="list-style-type: none">• Internal assessment will be according to JSMU policy. The details of internal assessment will be determined by the respective institutions.• Internal assessment carries 20% weightage in the final, end-of-year examination
ANNUAL EXAMINATION	<ul style="list-style-type: none">• MCQs and OSCE (observed unobserved)
MODULE EVALUATION	<ul style="list-style-type: none">• Course will be evaluated through a feedback form that is posted on the JSMU website
SUGGESTED READING	<p>Following books can be referred for further reading:</p> <ul style="list-style-type: none">• Apley's textbook of orthopedics• Bailey and Love Textbook of Surgery.• Ronald McRae practical fracture treatment.