كلية الطب البشري
Faculty of Medicine

الجامعـــــة الهاشميـــــة
The Hashemite University

Course information

Course title: Orthopedic surgery
Course number: 0111502501
Credit hours: 4.5 hours
Course date: TBC in 2023/2024
Course meeting time: 8:15 am
Course location: Prince Hamza hospital, lecture room, 4th floor
Office location: Prince Hamza hospital, 4th floor, orthopedic department
Course Coordinator : Dr Basel Balbisi
Office hours:
Phone: 0795310005
E-mail: bbalbisi@gmail.com
Instructors: Dr. Firas Al Dabouby, Dr Monther Gharaibeh, Dr Mohammed Sarhan, Anas AlTamimi,Dr Basel Balbisi, Dr Louy Khasawneh, Dr Saeed alNaser
Pre-requested course: Introductory course, 3 years basic medical sciences

Course description:

Orthopedic rotation in our faculty is a 4 weeks rotation during which the students are divided into 2 groups to attend different clinical teaching modalities (clinical rounds, emergency and outpatient clinics) that are planned in advance on daily basis. Beside the clinical teaching sessions there is also morning and evening seminars that should be attended by both groups under the supervision of one of the academic teaching staff or clinical instructors from the ministry of health that are assigned by the faculty for this purpose. Each seminar should be prepared and presented by 1 or 2 students according to the topics proposed in this syllabus. During the clinical teaching sessions either in clinic or bedside teaching every student should learn how to take history and perform a proper musculoskeletal physical examination, as well as constructing a comprehensive differential diagnosis and developing the required skills in planning a treatment strategy. This can be achieved by taking one or two histories by each student and discussing it with the clinical instructor.
At the end of each rotation there will be an OSCE exam with 3 stations, long case , short case and x-ray case.

TEACHING METHODS:

-Daily morning Seminar at 8:15 am for one hour
-Daily evening Seminar at 1 or 2 pm for one hour
-Clinical teaching consists of outpatient clinics, clinical rounds or emergency room.
-Students are divided into groups and are expected to be in one of the following activities:
Outpatient clinics
Clinical rounds and physical examination sessions
Emergency room under the supervision of the ER senior resident

Learning outcomes:

At the end of the rotation, each student is expected to:

1- HAVE THE BASIC SKILLS CONCERNING THE HISTORY TAKING AND PHYSICAL EXAMINATION OF AN ORTHOPAEDIC PATIENT.

2- KNOW HOW TO DEAL WITH MULTITRAUMA PATIENT.

3- UNDERSTAND THE BIOLOGY OF BONE AND BONE METABOLSIM INCLUDING THE FRACTURE HEALING PROCESS, AND DISORDERS AFFECTING THE BONE METABOLISM

4- BE ABLE TO DEAL WITH COMMON FRACTURES (DIAGNOSIS, CLASSIFICATION, TREATMENT AND SIMPLE REDUCTION MANAUVERS) IN ADULTS AND PAEDIATRICS

5- UNDERSTAND THE BASICS OF CONSERVATIVE MANAGEMENT OF FRACTURES (CAST, PLASTER OF PARIS, TRACTION, STRAPPING ...etc)

6- DIAGNOSE THE COMMON ORTHOPAEDIC PROBLEMS IN ADULTS AND PAEDIATRIC AGE GROUPS, INCLUDING THE BASIC TREATMENT METHODS.

7- BE ABLE TO DIAGNOSE AND TREAT OSTEOMYELITIS AND SEPTIC ARTHRITIS

8- DEAL WITH COMMON ORTHOPAEDIC EMERGENCIES.

9- READ X-RAYS.

Instructional methods:

Each activity will be supervised by a clinical instructor (as mentioned in the daily activity program) and the students' attendance will be recorded daily in all activities

Text book and material:

1- APLEY'S SYSTEM OF ORTHOPAEDICS AND FRACTURES
2- McRae CLINICAL ORTHOPAEDIC EXAMINATION

Grading Policy:

Grades will be divided as following:
End rotation exam: 30 %
Assignments/Class attendance/participation: 20 %
Final written exam: 50 %

Total Points 100

Course Policies:

Late Assignments

Students are expected to present their seminars on scheduled time, if not, a new date is given to the student to present his seminar (within 1 week). Late assignment will affect the grade by 5 points unless there is an excuse.

Missed exams

Make up exam will be held to students who missed their exam when they have an excuse accepted by the department (within 2 weeks)

Absence

Orthopedic rotation is 20 working days, absence by 2 means 10 % of days and mandates a warning letter, if more than 15 % , then the university rules will be applied (course repetition is mandatory), each absence will affect the evaluation by 2 points.

Cheating

Cheating is extremely prohibited and will be dealt with according to university policies

Classroom Protocol:

Students are expected to arrive at 8:00 AM.
Attendance is taken each day at 8:15, after that, absence will be recorded
Students are expected to respect other students and instructors as well as patients and nurses
Students are expected to respect the privacy of patients
Noisy behavior will not be accepted and this will affect the evaluation
Participation is graded according to presenting seminars, attending daily activities, good behavior, patient care, medical knowledge, communication skills.

Student rights and responsibilities:

Students have the right to talk to patients, examine them and discuss with them their disease **but they are not allowed to criticize the proposed management plan in front of patients or criticize other colleagues.**
Students have the right to ask about patients medical conditions and to see their medical records under the supervision of the clinical instructor
Students are allowed to participate in simple orthopedic procedures (ex: Cast, P.O.P, wound dressings)

Course Schedule:

TOPICS:

1- ORTHOPAEDIC HISTORY, PHYSICAL EXAMINATION, DIAGNOSTIC IMAGING AND TOOLS
2- BONE METABOLISM AND HISTOLOGY, METABOLIC BONE DISORDERS
3- PRINCIPLES OF FRACTURES, FRACTURE HEALING, GUIDELINES OF FRACTURE TREATMENT
4- COMPLICATIONS OF FRACTURES AND MAJOR TRAUMA
5- INJURIES OF UPPER LIMB (JOINTS+LONG BONE FRACTURS) (2 SEMINARS)
6- INJURIES OF LOWER LIMB, PELVIS AND ACETABULUM (JOINTS+LONG BONE FRACTURES) (2 SEMINARS)
7- PRINCIPLES OF PAEDIATRIC FRACTURES AND GROWTH PLATE INJURIES
8- OSTEOMYELITIS AND SEPTIC ARTHRITIS
9- PAEDIATRIC HIP DISORDERS (DDH, PERTHE'S DISEASE , SLIPPED CAPITAL FEMORAL EPIPHYSIS)

10- PAEDIATRIC FOOT DISORDERS
11- HIP AND KNEE DISORDERS
12- ANKLE AND FOOT DISORDERS
13- GAIT (NORMAL AND DISORDERS)
14- DISORDERS OF SHOULDER JOINT, ELBOW AND WRIST JOINT
15- DISORDERS OF HAND
16- INFECTIONS OF HAND
17- PERIPHERAL NERVE INJURIES AND ENTRAPMENT SYNDROMES
18- OSTEONECROSIS AND RELATED DISORDERS, OSTEOARTTHRITIS
19- CRYSTAL DEPOSITION DISORDERS, RHEUMATIC DISORDERS
20- INJURIES OF SPINE
21- SPINAL DEFORMITIES AND DISORDERS
22- PRINCIPLES OF BONE TUMOURS