



The University of Jordan
Accreditation & Quality Assurance Center

Course Syllabus

Course Name:
Neurosciences/
neurosurgery

1	Course title	Neurosciences/ neurosurgery
2	Course number	506504
3	Credit hours (theory, practical)	2 out of 4
	Contact hours (theory, practical)	
4	Prerequisites/corequisites	0500402/0508414/0500403/0511401/0507403/0500491
5	Program title	Doctor of Medicine
6	Program code	N/A
7	Awarding institution	The University of Jordan
8	Faculty	Medicine
9	Department	Special Surgery
10	Level of course	Bachelor MD
11	Year of study and semester (s)	5 th year
12	Final Qualification	MD
13	Other department (s) involved in teaching the course	
14	Language of Instruction	English
15	Date of production/revision	2020/2021

16. Course Coordinator:**Dr.Qusai Saleh Al Sabbagh****Name: Lecturer****Office Number: Faculty of Medicine / Jordan University hospital / Special Surgery office****Office Phone: (0799060827)****E-mail ; q.alsbbagh@ju.edu.jo****Office hours: Thursday 9-11 am and through Moodle e-learning.****17. Other instructors:**

Professor Walid Maani
Professor Ahmad Tamimi
Dr.Abdulrahman Shudaifat
Dr.Tareq Kanaan

18. Course Description:

As stated in the approved study plan.

This course covers a wide variety of common neurosurgical and traumatology topics, Students learn about the basics, etiology, pathogenesis, signs and symptoms of different neurosurgical and traumatology conditions and to be able to integrate the clinical, laboratory and radiological means to reach a

diagnosis of common pathologies, in addition to ways of their conservative and surgical treatment including physiotherapy and rehabilitation.

The rotation period is 2 weeks of clinical training including seminars ,group discussions, attending outpatients and teaching rounds.

1. 19. Course aims and outcomes:

2.

A- Aims:

For the student to be able to perform a focused history and physical examination of the patient with a neurosurgical complaint, to be able to identify the basic signs on regular skull and spine X-rays, to differentiate between CT scans and MRI , and to be able to diagnose and initially treat neurosurgical emergencies and how we manage common pathologies. The program of medical doctor (MD) provides opportunities for the students to develop and demonstrate knowledge attitudes and skills in the areas listed below. The learning outcomes specified reflect the expectation of the community as broadly pointed to in the university mission.

B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to...

A. knowledge and understanding:

Students are expected to:

A1-Understand the principles of management of the neurosurgical disorders.

A2-Understand the principles of medical care of neurosurgical patients.

B.Intellectual ,analytical and cognitive skills:

Students are expected to:

B1-Identify neurological disorders that are best treated by surgery.

B2-Demonstrate awareness of the appropriate surgical techniques and recommended postoperative care.

C.SUBJECT-SPECIFIC SKILLS:

Students are expected to:

C1-Select the appropriate methods for the diagnosis of neurosurgical disorders and diseases of the peripheral and central nervous system and their management.

D.TRANSFERABLE KEY SKILLS:

Students are expected to:

D1-Communicate with patients, colleagues and staff verbally and in writing.

D2-Manipulate data in form of data collection, analysis and interpretation.

D3-Apply the problem solving approach in the practice of medicine.

D4-Utilize information technology in learning and the practice of medicine.

D5-Work with others in team.

D6-Develop the capacity of life-long self learning.

20. Topic Outline and Schedule:**COURSE CONTENTS:**

content	Reference	Week	ILOs
Head injury	1- <i>Principles in Neurosurgery – Setti S. Rengachary, Richard G. Ellenbogen</i> 2- Essential Neurosurgery . Andrew H. Kaye 3-Handbook of Neurosurgery by Mark S. Greenberg	During rotation	To be able to diagnose, investigate and manage. Know types and classification of HI and early and late complications. Differentiate types of intracranial hematomas on CT scans .
Spinal injury		During rotation	To be able to diagnose, investigate and manage.
Hydrocephalus and spina bifida		During rotation	To be able to diagnose, investigate and manage.
Degenerative spinal diseases		During rotation	To be able to diagnose, investigate and manage disc prolapse and canal stenosis in lumbar and cervical spine and know common surgical procedures for their management.
Brain tumors		During rotation	To be able to diagnose and investigate and acknowledge management
Spinal tumors		During rotation	To be able to diagnose and investigate.

Intracranial hypertension		During rotation	To be able to diagnose, investigate and manage.
Epilepsy neurosurgery		During rotation	To be able to investigate and select patients and acknowledge modalities of surgeries
Subarachnoid hemorrhage		During rotation	To be able to diagnose, investigate and manage.

21. Teaching Methods and Assignments:

TEACHING/LEARNING METHODS

Teaching method	ILOs
Morning reports and Group discussion	1-Identify neurological disorders that are best treated by surgery. 2-DEemonstrate awareness of the appropriate surgical techniques and recommended postoperative care.
Homework and assignments	Prepare seminars
Projects	x
Presentations	1-Communicate with patients, colleagues and staff verbally and in writing. 2-Manipulate data in form of data collection, analysis and interpretation. 3-Apply the problem solving approach in the practice of medicine. 4-Utilize information technology in learning and the practice of medicine. 5-Work with others in team. 6-Develop the capacity of life-long self learning.

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1. Clinical end of rotation exam including an OSCE exam for 4th year students and , a major case exam for 5th year students.

2. Written MCQ end of year exam.

3. Evaluation of attendance , attitude and presentations of seminars in addition to a written full history.

23. Course Policies:

A- Attendance policies: According to the regulations of the University of Jordan.

B- Absences from exams and handling of assignments on time: According to the regulations of the University of Jordan

C- Health and safety procedures: According to the regulations of the University of Jordan

D- Honesty policy regarding cheating, plagiarism, misbehavior: According to the regulations of the University of Jordan

E- Grading policy: According to the regulations of the University of Jordan

F- Available university services that support achievement in the course: Students can utilize UJ's medical or main library facilities. In addition, they can access e-journals and e-books within campus. They can access the Module e-learning through the UJ's wireless internet facilities for free or through the computer lab in the Faculty of Medicine. A lot of other facilities and support can be provided through the Deanship of Student Affairs.

24. Required equipment:

Hammer and tuning fork for reflex examination.

25. References:

A- Required book (s), assigned reading and audio-visuals:

B- Recommended books, materials, and media:

- Handbook of Neurosurgery –Greenberg
- Essentials of Neurology and neurosurgery
- Essential practice of neurosurgery

26. Additional information:

Name of Course Coordinator: **Qusai Al Sabbagh** Signature: ----- Date: 10.01.2017

Head of curriculum committee/Department: **Tareq Kanaan** Signature: -----

Head of Department: Dr. Ghazi Aledwan Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File