



University of Benghazi

Faculty of Medicine

Course of Radiology (1414)

The radiology course is One of the important requirement for the Human Medicine curriculum, It is taught in the fourth year. The number of study hours is 109 hours.

1. The Course's overall Objectives:

1. To provide knowledge on the diagnostic role of imaging in common diseases affecting various systems including emergencies conditions.
2. To provide knowledge on all currently available imaging procedures, and their advantages, contraindications, risks and how they may be best used in the management of the patient
3. To provide knowledge on Radiology safety.
4. Acquire the essential skills that will enable them to use various imaging modalities in a safe manner
5. To train students to interpret plain radiographs as well as cross-sectional imaging studies, such as CT, MRI and Ultrasound.
6. Develop overall communication and teamwork skills.

2. Learning outcomes:

2.1 Knowledge and understanding:

Discuss hazards and safety measures in radiology clinical practice
Recognize normal anatomical structures and abnormal pathologies for different body organs by using various imaging modalities
List imaging modalities used to diagnose different body systems pathologies
Discuss the indications, and contraindication of contrast and appearance of images before and after contrast and radioactive substance injection.

2.2 Intellectual skills:

Integrate basic anatomical & pathological knowledge with clinical data for medical and surgical problems
Select a suitable imaging modality relevant to patient complains
Compare and contrast the benefits and limitations of different radiologic modalities
Interpret major findings related to MRI, CT, and X-ray in common diseases and life-threatening conditions.

2.3 Practical and professional skills:

Obtain a comprehensive and focused history
Observe the application of different imaging modalities

Write a radiology report.

2.4 General and transferable skills:

Communicate effectively with patients, and their relatives, colleagues and senior doctor
Be an influential part of a teamwork and aware of team dynamics
Manage their time effectively
Demonstrate ethical consideration in dealing with patients.

3. Teaching and Learning Methods:

1. Illustrated lectures
2. Tutorials.

4. Evaluation Methods:

Written short essay .
MCQs .
Slide examination .
OSPE

5. References:

-A. Rockall, A. Hatrick, P. Armstrong, M. Wastie. Diagnostic Imaging. 7th edition. John Wiley & Sons, Chichester, UK, 2013
-Ahuja AT. Case studies in medical imaging radiology for students and trainees.-
.Cambridge: Cambridge University Press; 200-
-Herring, William. Learning Radiology : Recognizing the Basics. 3rd ed. Philadelphia: Elsevier Saunders, 2015
www.learningradiology.com
www.radiologymasterclass.co.uk/
<https://radiopaedia.org/>