

Comprehensive Radiology Examination

To be eligible for graduation, all students must sit for and pass the Marshall University School of Medicine's in-house comprehensive radiology examination during their fourth year. The purpose of the examination is to demonstrate minimal competency in identifying common radiological modalities (e.g. MRI vs CT), basic anatomy (e.g. identify the spleen on CT scan), and various pathological conditions (e.g. pneumothorax, pneumonia, fractures etc.). Students will be given specific testing times and dates in which to choose to schedule their on-line examination. Exams are usually given on Monday and Friday mornings starting in October until the middle of March. For more information, contact Robbie Nance, Program Assistant, nance37@marshall.edu (304.691.8592)

EXAMINATION FORMAT

The format will include, but may not be limited to 100 questions, given in an computer based format. Students will be given 120 minutes to complete the examination.

Images used may include, but not be limited to:

- Plain films
- CT
- MRI
- Ultrasound
- Angiography

Examination Institutional Objectives

Institutional Objective

Medical Knowledge - Describe the scientific principles underlying laboratory and radiologic diagnostic methodologies.

- **MK4D1.** Incorporate knowledge of the scientific principles underlying laboratory and radiologic diagnostic methodologies into the care of critically ill.
- **MK4D3.** Discuss the basic scientific principles of radiologic diagnostic tests, and be able to give examples of how these tests should be used appropriately in patient care.

Exam Objectives

- Students must demonstrate a basic understanding of radiographic anatomy.
- Students must distinguish between various radiological modalities.
- Students must identify a disease process based on review of a patient history, physical exam findings and abnormal films.
- Students must evaluate the indications for, and appropriate sequencing of common radiological techniques to determine which would be best used in the management of the patient.

Institutional Objective

Systems-based Practice - Students will be able to recognize and better understand the role of other health care professionals in the overall care of the patient.

Exam Objective

- Students will understand how different radiological modalities are delivered in the current health care system, and the most appropriate study for various disease states.

Institutional Objective

Interpersonal and Communication Skills - Communicate effectively with patients, patients' families, colleagues, and other health care professionals.

Exam Objective

- IC4A2. Use written and electronic communication skills effectively within the clinical care setting..

Institutional Objective

Professionalism- *Students must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.*

Exam Objective

- Students must schedule their exam in a timely manner and successfully complete the exam by the deadline.
- Students must use available on-line review resources and independent learning skills to prepare and pass the examination.

Institutional Objective

Patient Care - *Justify each diagnostic test ordered and management strategy proposed with regard to cost, effectiveness, risks, and complications, and the patient's overall goals and values.*

Exam Objective

- **PC3D1.** Choose appropriate tests and management strategies based on effectiveness, risk, cost, and patient goals and values for core clinical conditions.
- **PC4E1.** Integrate information obtained from history and physical examinations, and diagnostic testing, and review of the clinical literature to formulate and appropriate differential diagnosis and plan of care for critically ill and emergent patients.

MINIMUM PASSAGE

A minimum of 75% correct will be required to pass the examination.

COMPLETION DEADLINE

For May graduation, the examination MUST be taken and passed no later than April 1. For December graduates, the examination must be taken and passed no later than November 15. Should the required passage date fall on a weekend or non-working holiday, the examination must be taken and passed by the last working day prior to the deadline date.

REMEDICATION

Any student who is unsuccessful in achieving the minimal passage rate must retake the examination until a passing grade is achieved. Failure to obtain the minimal passage rate will result in delayed graduation. It shall be the student's responsibility to contact the Office of Medical Education (304.691.1733) to retake the examination. Dr. Pete Chirico should be contacted for remediation (304.526.5120)

Suggested Reading/Other Material:

<http://www.learningradiology.com/onequestionquiz/onequestiontoc.htm>

www.learningradiology.com

Students guide: <http://musom.marshall.edu/students/ms4.asp>

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