



Nuclear Radiology: Studying for the Exam

Last verified on January 7, 2022

The exam consists of four categories. An outline of areas that may be covered is shown below.

This is a general outline and is not all-inclusive.

Clinical Nuclear Radiology

1. Cardiovascular system
2. Central nervous system
3. Endocrine and reproductive systems
4. Gastrointestinal system
5. Musculoskeletal system
6. Pulmonary system
7. Genitourinary system
8. Neoplasms
9. Infection/inflammation
10. Therapies, oral and parenteral

Physics and Radioisotope safety in Nuclear Radiology

11. Radiation physics and instrumentation
12. Radiation protection
13. Mathematics pertaining to the use and measurement of radioactivity
14. Chemistry of by-product material for medical use
15. Radiation biology
16. Diagnostic and therapeutic procedures requiring use of unsealed byproduct material for which a written directive is required, including administration of oral radioiodine below and above 1.22 gigabecquerels (33 millicuries) and administration of parenteral alpha emitters, beta emitters, and photon-emitting radionuclides with a photon energy less than 150 keV.
17. Other NRC-related topics (see [Compliance with NRC Regulations](#))