



# X-Ray Tech

Essentials of DR Images & Modalities, Positioning Basics, Imaging Basics, Classic Radiographic Signs, Findings & Terminology

## OVERVIEW

### Scope of Practice

- X-Ray Tech (a.k.a., Diagnostic Radiology (DR)) involves using x-rays in diagnostic procedures.
- X-rays, like visible light, are a form of electromagnetic radiation, so care must be taken to ensure that patients are not overexposed.
- In addition, X-Ray Tech/DR requires certain skills, practice and technology:
  - patient care
  - quality control
  - computer data acquisition & processing

- radiation safety
- DR is also connected to quantitative sciences, including:
  - chemistry
  - radiation biology
  - physics
  - computer technology

### How DR Works

- The x-ray machine works by using individual x-ray particles (a.k.a., photons)

- As these x-ray particles pass through the body, a computer (or a special kind of film) records the images created.
- Also called Radiography, DR is similar to photography; the patient and x-ray machine are positioned according to the part of the body to be studied and the type of procedure requested by the physician.
- The recorded images then can be evaluated and used for diagnosis by the physician.

**NOTE TO STUDENT:** For more information on Radiation Therapy, see the QuickStudy for Radiation Therapy, which outlines the course curriculum for it, including more in-depth discussion of Radiophysics and Radiobiology; because of its complex subject matter, this guide features two glossaries: Glossary of Clinical Terminology and Glossary of Radiographic Terminology.

## X-RAY TECH/DR - GETTING STARTED

### Understanding Radiophysics

#### Radiating Radiation

- Absorption of energy from radiation of sufficient energy to cause ejection of one or more orbital electrons from the atom or molecule; ionizing radiation can be electromagnetic or particulate.
- Electromagnetic radiation consists of x-rays and gamma rays, which differ only in the manner in which they are produced:
  - x-rays are produced in an **electrical machine**
  - gamma rays are emitted from the nucleus of radioactive isotopes
- Electromagnetic radiation is **indirectly ionizing**; that is, x-rays and gamma rays give up their energy to produce fast-moving charged particles that induce damage:
  - Particulate radiation consists of subatomic particles (i.e., electrons, protons, alpha particles, neutrons, negative pions-mesons) and heavy ions
- Particulate radiation is **directly ionizing**; that is, it can potentially produce chemical and biological changes and directly disrupt the atomic structure.

#### Electromagnetic Radiation

Three dominant absorption mechanisms of electromagnetic radiation exist, largely depending upon the energy of the radiation:

1. photoelectric absorption
2. Compton effect (a.k.a., Compton scattering)
3. pair production

#### Production of X-Rays

- X-rays are produced by a vacuum tube that uses high voltage to accelerate electrons from a cathode to a high velocity.
- X-rays are generated when the electrons collide with a tungsten target, the anode.
- The principal interaction in x-ray production results in the output of "bremsstrahlung," or "braking," radiation.
- Bremsstrahlung accounts for approximately 75% to 80% of the tube's output and is produced by the sudden deceleration of the high-speed electron as it is deflected around the nucleus of the tungsten atom.
- Rad, the historic unit for absorbed dose, derived from the acronym for radiation absorbed dose.
- Roentgen (R), unit of exposure, defined as the amount of ionization produced by a beam of radiation (unit).

#### The Tech Knows

X-ray films appear in black and white; dense structures (i.e., bones, which block photons) appear white, air appears black and contrast dye allows to highlight areas of the bodily structures containing air, as well as muscle, fat and fluids, all appear in varying shades of gray.

#### Absorbed Dose

- Amount of energy absorbed per unit mass of absorbing material
- Describes the interaction of radiation with matter
- Measured in joules per kilogram (J/kg)

## DR IMAGES & MODALITIES

**Angiogram:** procedure used to evaluate blood vessels and organs of the body by using x-ray based techniques including fluoroscopy, plane x-rays and CT, as well as MRI imaging.

- Radiopaque contrast agents are injected into the blood vessel and the images are recorded and studied.
- Used extensively in the heart, brain and kidneys.

**Bone scan:** a nuclear medicine ("nuc med") procedure in which a radionuclide (i.e., technetium-99m) is imaged after localization in bones to show abnormalities.

- The more active the bone, turnover (osteoclastic) changes, the greater the concentration of the radionuclide.
- Tumors, fractures, arthritis and infections all may show up as "hot spots" (areas of increased uptake).
- Patterns of uptake and, as in all radiological interpretations, clinical history both help to differentiate these entities.
- Osteoblastic (a.k.a., lytic) lesions (osteoclastic changes) may NOT show up on a bone scan.

**Bone survey:** a series of x-rays of the skull, spine, arms, ribs and legs.

- More likely to show lytic lesions (osteoclastic changes) than a bone scan.
- Important diagnostic test in multiple myeloma.

**CT (computed tomography):** static medical imaging technique developed from tomography, a procedure that acquires an image of a single "slice" of the body.

- In CT, a large series of x-ray images (a.k.a., "slices") are quickly acquired around a single axis of rotation, allowing them to be reassembled in three dimensions (3-D), producing a high-resolution image.
- CT has revolutionized medical imaging over the past 30 years.

**CR (conventional x-ray):** radiographic test ordered to view the thorax and its component organs in order to diagnose various conditions, including pneumonia and lung cancer.

- CR is among the first diagnostics ordered when patients present with symptoms of respiratory distress.

**Fluoroscopy:** technique used to acquire real-time images of internal structures and medical interventions using x-rays and sophisticated fluorescent screens.

- In use for over 100 years, fluoroscopy still plays an important role in radiography.
- Because it is often used to monitor an intervention or observe moving images, care must be taken to closely monitor patient's radiation exposure.

**Gamma camera:** a device used to image gamma radiation emitted from radionuclides.

- Used in nuclear studies such as bone, SPECT and PET scans.

**Interventional Radiology:** subspecialty of radiology used for both diagnostic and therapeutic purposes.

- Minimally invasive procedures are performed using radiographic image guidance.

**IVP (intravenous pyelogram):** contrast-enhanced study of the kidneys and renal collecting system.

- Usually consists of a series of films taken as the contrast dynamics through different parts of the urinary system.

**KUB:** a non-contrast-enhanced radiographic study of the abdomen.

- Because it primarily includes the kidneys, ureter and bladder, the test has been given the acronym KUB.

**Lymphangiogram:** special contrast-enhanced x-ray of lymph nodes and lymph vessels, which are NOT seen on standard x-rays.

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## **Table of Contents Xray Tech Study Guide For State Exam**

1. Understanding the eBook Xray Tech Study Guide For State Exam
  - The Rise of Digital Reading Xray Tech Study Guide For State Exam
  - Advantages of eBooks Over Traditional Books
2. Identifying Xray Tech Study Guide For State Exam
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Xray Tech Study Guide For State Exam
  - User-Friendly Interface
4. Exploring eBook Recommendations from Xray Tech Study Guide For State Exam
  - Personalized Recommendations
  - Xray Tech Study Guide For State Exam User Reviews and Ratings
  - Xray Tech Study Guide For State Exam and Bestseller Lists

5. Accessing Xray Tech Study Guide For State Exam Free and Paid eBooks
  - Xray Tech Study Guide For State Exam Public Domain eBooks
  - Xray Tech Study Guide For State Exam eBook Subscription Services
  - Xray Tech Study Guide For State Exam Budget-Friendly Options
6. Navigating Xray Tech Study Guide For State Exam eBook Formats
  - ePUB, PDF, MOBI, and More
  - Xray Tech Study Guide For State Exam Compatibility with Devices
  - Xray Tech Study Guide For State Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Xray Tech Study Guide For State Exam
  - Highlighting and Note-Taking Xray Tech Study Guide For State Exam
  - Interactive Elements Xray Tech Study Guide For State Exam
8. Staying Engaged with Xray Tech Study Guide For State Exam
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Xray Tech Study Guide For State Exam
9. Balancing eBooks and Physical Books Xray Tech Study Guide For State Exam
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Xray Tech Study Guide For State Exam
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Xray Tech Study Guide For State Exam
  - Setting Reading Goals Xray Tech Study Guide For State Exam
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Xray Tech Study Guide For State Exam
  - Fact-Checking eBook Content of Xray Tech Study Guide For State Exam
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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