

Radiology Midterm

Radiology = specialty of medicine that utilizes various imaging technologies to diagnose & treat medical/surgical conditions

X-Ray Projection:

- **Posterior Anterior (PA)** - beam passes through pt from **back to front**
 - Done in the radiology department along with a lateral projection
- **Anterior Posterior (AP)** - beam passes **front to back**
 - Portable XR for non-transportable pts
- **Lateral** - gives the **side perspective**
 - Typically LT lateral is done as it gives the best view of the heart
- **Oblique** - beam enters **at an angle**, can be performed anterior or posterior/right or left
 - LAO, RAO, RPO, LPO → LAO indicates left anterior body part was closest to film
- **Lordotic** - exaggerated **lordosis position**
 - Overlap the ribs to increase visualization of spaces between ribs
- **Supine & Upright** - standing or laying on back

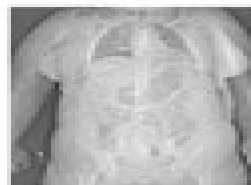


X-Ray:

- **Bones** - generally order 2 views (AP & lateral)
- **Joints** - always order 3 views (AP, lateral, oblique)
- **Advantages** - quick, non-expensive, relatively low radiation
- **Disadvantages** - not 3D, can miss pathology, pts still require other imaging

CT & MRI Projection:

- **Scout view** (initial fast scan/quick look), **Axial** (cross section - standing at pt's feet looking up into body), **Coronal** (front to back - pt standing in front of you), **Sagittal** (left to right - pt standing), **Reformatted**, **3-D reconstruction**, **Angiography**, **Venography**, **Myelography**



Radiologic Modalities:

- **Conventional radiography** - XRR, mammography, fluoroscopy (continuous XRR - cardiac catheterization)
- **Computed Tomography (CT)** - CT with or without contrast, CT angiography, CT venography, CT myelogram
- **Magnetic Resonance Imaging (MRI)** - with or without contrast, angiogram, venogram, or functional
- **Ultrasound**
- **Nuclear Medicine (NM)** - PET, functional studies (VQ scan)

Diagnostic Procedure	Approximate Radiation Dose (mSv)	Number of Views (AP, PA, Lateral, etc.)	Approximate Radiation Dose (mSv)
Chest X-ray (PA, AP)	0.02	1	0.02 mSv
Abdominal X-ray	0.03	1	0.03 mSv
Chest CT	7.0	10	7.0 mSv
Abdominal CT	10.0	10	10.0 mSv
CT angiography	10.0	10	10.0 mSv
CT venography	10.0	10	10.0 mSv
CT myelogram	10.0	10	10.0 mSv
CT urography	10.0	10	10.0 mSv
CT colonography	10.0	10	10.0 mSv
CT enterography	10.0	10	10.0 mSv
CT enteroclysis	10.0	10	10.0 mSv
CT enterography	10.0	10	10.0 mSv
CT enteroclysis	10.0	10	10.0 mSv

Radiation allows you to see: bones, soft tissue, metallic objects, gas, opacification

Radiography Study Guide

William J. Callaway



Radiography Study Guide:

A STUDY GUIDE TO UNDERSTANDING RADIOGRAPHY Stephen Hiss, 1993-01-01 This study guide amplifies and clarifies the material found in the main text UNDERSTANDING RADIOGRAPHY With its parallel format the study guide will help the reader understand and remember the information presented The guide has been expanded to include the material added to the Third Edition including a new chapter on computed tomography In the study guide the author concentrates on helping the reader prepare for the registry examination He poses hundreds of questions that will help the student retain each lesson and assess his or her own mastery of it These questions are arranged by subject and immediately follow the material with which they deal In addition each chapter concludes with an examination that will help the student review the materials and put it into perspective Multiple choice fill in the blank and identification explanation of illustration questions are all included An answer section is provided at the back of the text *Radiology Specialty Review and Study Guide* Jesse Cole, 2015-09-25 Includes Multiple choice fact scenario and case based questions Correct answers and explanations to help you quickly master specialty content All questions have keywords linked to additional online references The mission of StatPearls Publishing is to help you evaluate and improve your knowledge base We do this by providing high quality peer reviewed educationally sound questions written by leading educators StatPearls Publishing *Mosby's Comprehensive Review of Radiography - E-Book* William J. Callaway, 2012-02-22 A complete review for the Registry exam Mosby's Comprehensive Review of Radiography The Complete Study Guide and Career Planner 6th Edition covers the five major subject areas of the ARRT exam in radiography It is also an effective study guide for many radiography courses Written in outline format each review of a subject is followed by questions related specifically to that area Two mock ARRT exams are included in the book and online exams include a pool of over 1 400 review questions that may be randomly combined to generate a virtually limitless number of mock ARRT exams From noted radiography educator William J Callaway this edition also provides advice on writing resumes and cover letters interviewing employer expectations and continuing education requirements to help you make the transition to a successful career Review of the five major subject areas covered on the ARRT exam in an outline format helps you concentrate on the most important information Over 2 400 review questions in the book and online offer practice with a multiple choice format similar to the ARRT exam Thorough coverage of digital and computed radiography reflects the increased emphasis of these topics on the Registry exam Online mock exams let you practice in tutorial mode with immediate feedback after each question or in exam mode with feedback only after you complete the entire test Online study tools include study tips for difficult questions and electronic flashcards with formulas key terms and important topics Rationales for correct and incorrect answers are included in the appendix Career preparation advice includes writing resumes and cover letters tips for interviewing a look at what employers expect career advancement basic financial planning and continuing education requirements Updates reflect the latest ARRT exam changes with

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The Ultimate Study Guide for the Registry Examination in Radiography Patrick Leonardi,2005

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Callaway,2008-01-23 A complete review this guide covers the five major subject areas of the ARRT exam in radiography And it s an effective study guide for many radiography courses Written in outline format each review of a subject is followed by questions related specifically to that area This edition also provides valuable information on preparing resumes and cover letters interviewing and career planning to help you make the transition to a successful career This title includes additional digital media when purchased in print format For this digital book edition media content is not included Content review in outline format includes the five major subject areas covered on the ARRT exam helping you concentrate on the most important information Thorough coverage of digital and computed radiography reflects the increased emphasis of these topics on the Registry exam Review questions with answers let you practice AART exam style questions helping you assess your preparedness and identify areas that need additional study Rationales for correct and incorrect answers are included in the appendix Career preparation advice covers continuing education requirements career advancement and basic financial planning such as negotiating salary and benefits Expanded coverage of digital imaging and ethical standards reflects the increased emphasis of these topics on the Registry exam Situational Judgment Test questions provide practice with the new type of Registry question requiring you to select the best response in an ethics related situation **Mosby's**

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Table of Contents Radiography Study Guide

1. Understanding the eBook Radiography Study Guide
 - The Rise of Digital Reading Radiography Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Radiography Study Guide
 - 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 Radiography Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Radiography Study Guide
 - Personalized Recommendations
 - Radiography Study Guide User Reviews and Ratings
 - Radiography Study Guide and Bestseller Lists

5. Accessing Radiography Study Guide Free and Paid eBooks
 - Radiography Study Guide Public Domain eBooks
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 - Radiography Study Guide Budget-Friendly Options
6. Navigating Radiography Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Radiography Study Guide Compatibility with Devices
 - Radiography Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Radiography Study Guide
 - Highlighting and Note-Taking Radiography Study Guide
 - Interactive Elements Radiography Study Guide
8. Staying Engaged with Radiography Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Radiography Study Guide
9. Balancing eBooks and Physical Books Radiography Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Radiography Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Radiography Study Guide
 - Setting Reading Goals Radiography Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Radiography Study Guide
 - Fact-Checking eBook Content of Radiography Study Guide
 - 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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web in cryptology the discipline concerned with the study of cryptographic algorithms a cipher is an algorithm for encrypting and decrypting data symmetric key encryption also called secret key encryption depends on the use of ciphers which operate symmetrically with symmetric encryption algorithms the same encryption key is applied to data

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used ciphers are divided into symmetric key algorithms private key cryptography where one same key is used for encryption and decryption and

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web shift ciphers work by using the modulo operator to encrypt and decrypt messages the shift cipher has a key k which is an integer from 0 to 25 we will only share this key with people that we want to see our message

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web each letter is substituted by another letter in the alphabet if it contains word boundaries spaces and punctuation it is called an aristocrat the more difficult variant without word boundaries is called a patristocrat monoalphabetic substitution cipher tool

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web in contrast to modern cryptographic algorithms most classical ciphers can be practically computed and solved by hand however they are also usually very simple to break with modern technology the term includes the simple systems used since greek and roman times the elaborate renaissance ciphers world war ii cryptography such as