

## Basic Assignments

	Reading	Practice Qs	Test Qs
<b>Basic Breast</b>	<b>87</b>	<b>153</b>	<b>44</b>
Anatomy and Normal Variants	11	22	4
Breast Imaging Modalities	13	23	6
BI-RADS Lexicon	4	22	4
Mammography: Masses	9	18	5
Mammography: Calcifications	17	26	10
Mammography: Additional Findings	8	10	5
Ultrasound Features	9	14	3
Ultrasound Evaluation of Cystic Lesions	7	8	1
Image-Guided Procedures (Basic)	9	10	6
<b>Basic Cardiac</b>	<b>42</b>	<b>68</b>	<b>35</b>
Congenital Heart Disease Basic	8	15	4
Valvular Disease Basic	8	16	7
Pericardial Disease Basic	7	7	6
Coronary Artery Disease Basic	7	21	10
Heart Failure	5	2	2
Electrophysiology Basic	2	5	2
Basic Differential Diagnoses	5	2	4
<b>Basic Gastrointestinal</b>	<b>160</b>	<b>199</b>	<b>40</b>
Peritoneum, Mesentery, and Abdominal Wall Basic	22	19	3
Esophagus Basic	17	23	6
Stomach Basic	15	18	4
Duodenum Basic	7	7	2
Small Bowel Basic	15	23	4
Colon Basic	23	35	9
Spleen Basic	7	6	2
Liver Basic	26	30	6
Biliary System Basic	12	13	0
Pancreas Basic	11	17	2
Abdominal Manifestations of Systemic Diseases Basic	5	8	2
<b>Basic Genitourinary</b>	<b>89</b>	<b>86</b>	<b>21</b>
Retroperitoneum Basic	8	3	2
Adrenal Basic	8	8	1
Kidney Basic	28	32	9
Ureter Basic	7	6	2
Bladder Basic	9	12	4
Urethra Basic	5	1	1
Uterus Basic	6	6	0
Ovaries Basic	13	15	2
Male Genital Tract Basic	5	3	0
<b>Basic Musculoskeletal Trauma</b>	<b>83</b>	<b>129</b>	<b>43</b>
Introduction to Osseous Trauma	10	24	3
Shoulder and Arm Osseous Trauma	12	15	10
Elbow and Forearm Osseous Trauma	14	10	6
Wrist and Hand Osseous Trauma	11	23	6

Pelvis, Hip, and Thigh Osseous Trauma	14	24	7
Knee and Leg Osseous Trauma	7	10	3
Ankle and Foot Osseous Trauma	15	23	8
<b>Basic Musculoskeletal Non-Traumatic Diseases</b>	<b>38</b>	<b>63</b>	<b>21</b>
Orthopedic Implants	14	21	8
Arthritis: Basic Concepts	19	34	10
Infection: Basic Concepts	5	8	3
<b>Basic Neuroradiology Brain</b>	<b>72</b>	<b>222</b>	<b>38</b>
Anatomy: Scalp, Skull, Meninges	4	11	2
Anatomy: Supratentorial Brain	3	10	2
Anatomy: Infratentorial Brain	4	8	0
Anatomy: Cranial Arteries	7	17	4
Anatomy: Veins and Venous Sinuses	3	7	2
Anatomy: CSF Spaces	3	12	2
Primary Effects of CNS Trauma	13	43	9
Secondary Effects of CNS Trauma	2	3	2
Nontraumatic Intracranial Hemorrhage	4	21	2
Cerebral Ischemia/Infarction	10	21	7
Aneurysms and Subarachnoid Hemorrhage	3	9	2
Infections	6	20	0
Toxic/Metabolic Disorders	2	4	1
Diseases of the Ventricles and Subarachnoid Spaces	3	8	1
Introduction to Brain Neoplasms and Cysts	5	28	2
<b>Basic Neuroradiology Head and Neck</b>	<b>57</b>	<b>120</b>	<b>36</b>
Suprahyoid and Infrahyoid Neck	16	24	12
Pediatric Head and Neck	7	13	5
Sinuses and Orbits	9	12	4
Facial Trauma and Other H&N Emergencies	18	57	9
Cranial Nerves and Skull Base	7	14	6
<b>Basic Neuroradiology Spine</b>	<b>66</b>	<b>141</b>	<b>35</b>
Anatomy: Spinal Osseous Structures, Ligaments, and Muscles	12	30	12
Anatomy: Spinal Cord, Meninges, Arteries, Veins	5	6	2
Anatomy: Plexi	3	1	0
Spinal Trauma	21	46	8
Degenerative Disease and Arthritis	16	37	8
Infection and Inflammatory Disorders	4	15	3
Spinal Neoplasms Basic	5	6	2
<b>Basic Nuclear Medicine</b>	<b>90</b>	<b>184</b>	<b>26</b>
Neuro Basic	1	8	1
Gastrointestinal Basic	13	25	7
Genitourinary Basic	6	7	1
Thoracic	4	5	0
Musculoskeletal Basic	24	20	4
Endocrine Basic	13	15	4
Oncologic Basic	29	25	9
Nuclear Medicine Physics	0	79	0
<b>Basic Obstetrics</b>	<b>17</b>	<b>27</b>	<b>8</b>
Normal and Abnormal Early First Trimester	17	27	8

<b>Basic Pediatrics</b>	<b>120</b>	<b>334</b>	<b>59</b>
Airway	7	12	3
Chest	9	22	4
Neonatal and Congenital Chest Abnormalities	11	32	8
Cardiac	10	15	4
Gastrointestinal	17	46	4
Neonatal GI Abnormalities	12	44	8
Genitourinary	18	60	9
Musculoskeletal	11	31	8
Brain, Head and Neck	19	57	9
Spine	6	15	2
<b>Basic Thoracic</b>	<b>70</b>	<b>86</b>	<b>42</b>
Anatomy	11	25	8
Terminology	6	5	3
Chest Radiographic and CT Signs	7	2	5
Atelectasis and Volume Loss	8	19	5
Common Thoracic Conditions	13	13	7
Trauma	7	7	6
Post-Treatment Chest	4	4	1
Pleural Diseases	14	11	7
<b>Basic Ultrasound</b>	<b>108</b>	<b>165</b>	<b>32</b>
Liver Basic	18	25	5
Biliary Tract Basic	11	17	4
Pancreas Basic	7	4	2
Urinary Tract Basic	26	43	5
Renal Transplants	5	8	1
Female Pelvis Basic	21	33	7
Scrotum Basic	11	26	5
Vascular Basic	9	9	3
<b>Basic Vascular and Interventional</b>	<b>64</b>	<b>39</b>	<b>27</b>
Thoracic Aorta and Great Vessels Basic	6	3	1
Abdominal Aorta and Visceral Vasculature Basic	9	10	5
Vasculature of the Pelvis	7	3	2
Pulmonary Vasculature Basic	5	5	1
Procedures: General Considerations	7	4	7
Arterial Revascularization and Exclusion Basic	6	3	0
Venous Access Procedures	6	5	6
Nonvascular Gastrointestinal Procedures	7	2	1
Nonvascular Biliary Procedures	3	1	3
Nonvascular Urinary Tract Procedures	3	0	1
Nonvascular Thoracic Procedures	5	3	0
<b>Basic Special Topics Physics *</b>	<b>NA</b>	<b>179</b>	<b>NA</b>
Atomic Structure: Composition of the Atom		11	
Electromagnetic Radiation		4	
Particulate Radiation		4	
Ionizing Radiation Interactions with Matter		17	
Radiation Units		12	
X-ray Production		0	
Imaging Science		0	
Biological Effects of Ionizing Radiation: Radiation Biology		16	
Radiation Protection and Associated Regulations		22	

X-ray Projection Imaging: Concepts and Detectors	17
General Radiography	17
Mammography	8
Fluoroscopy and Interventional Imaging	2
CT	38
Ultrasound	11

## Intermediate Assignments

	Reading	Practice Qs	Test Qs
<b>Intermediate Breast</b>	<b>126</b>	<b>142</b>	<b>45</b>
Breast MR	13	29	5
Histopathologic Diagnoses: Benign Lesions	15	19	8
Histopathologic Diagnoses: Risk Lesions	8	6	2
Histopathologic Diagnoses: Locally Aggressive Lesions	4	3	1
Histopathologic Diagnoses: Malignant Lesions	17	16	7
Breast Signs and Symptoms	17	20	4
Breast Infection and Inflammation	4	6	2
Special Topics in Breast Imaging	10	10	2
Postoperative Imaging Findings	12	16	2
Breast Cancer: Basic Treatment and Tenets	4	1	1
Treatment Planning Issues	6	6	1
Breast Screening Issues	11	6	2
Image-Guided Procedures (Intermediate)	5	3	3
Regulatory	0	1	5
<b>Intermediate Cardiac</b>	<b>56</b>	<b>122</b>	<b>44</b>
Cardiac Techniques	2	2	4
Congenital Heart Disease Intermediate	13	30	13
Valvular Disease Intermediate	4	7	3
Pericardial Disease Intermediate	3	4	3
Cardiac Neoplasms	9	15	8
Cardiomyopathy	10	22	7
Coronary Artery Disease Intermediate	13	41	6
Electrophysiology Intermediate	2	1	0
<b>Intermediate Gastrointestinal</b>	<b>189</b>	<b>194</b>	<b>30</b>
Peritoneum, Mesentery, and Abdominal Wall Intermediate	27	20	1
Esophagus Intermediate	17	18	2
Stomach Intermediate	14	11	1
Duodenum Intermediate	7	6	1
Small Bowel Intermediate	20	20	3
Colon Intermediate	14	12	0
Spleen Intermediate	10	6	1
Liver Intermediate	32	39	11
Biliary System Intermediate	17	20	3
Pancreas Intermediate	16	22	3
Abdominal Manifestations of Systemic Diseases Intermediate	15	20	4
<b>Intermediate Genitourinary</b>	<b>169</b>	<b>201</b>	<b>32</b>
Retroperitoneum Intermediate	7	3	2
Adrenal Intermediate	10	17	3
Kidney Intermediate	37	28	12
Ureter Intermediate	4	4	3
Bladder Intermediate	7	8	4

Urethra Intermediate	2	4	1
Uterus Intermediate	30	54	4
Cervix	6	11	0
Ovaries Intermediate	29	38	2
Vulva and Vagina	9	8	0
Fallopian Tubes	6	9	1
Pelvic Soft Tissues	10	4	0
Male Genital Tract Intermediate	12	13	0
<b>Intermediate Musculoskeletal Trauma</b>	<b>152</b>	<b>209</b>	<b>86</b>
Osseous Trauma Intermediate	2	2	2
Introduction to Soft Tissue Trauma	8	14	4
Shoulder Trauma Intermediate	33	53	20
Elbow Trauma Intermediate	13	19	2
Wrist and Hand Trauma Intermediate	12	17	4
Pelvis, Hip, and Thigh Trauma Intermediate	22	18	11
Knee and Leg Trauma Intermediate	38	59	28
Ankle and Foot Trauma Intermediate	24	27	15
<b>Intermediate Musculoskeletal Non-Traumatic Diseases</b>	<b>145</b>	<b>290</b>	<b>81</b>
Orthopedic Implants: Intermediate	6	7	3
Arthritis: Intermediate Concepts	11	8	7
Arthritis: Uncommon Processes and Mimics	24	46	10
Infection: Intermediate Concepts	10	11	4
Metabolic Bone Disease	9	15	4
Osteonecrosis	8	17	4
Introduction to Musculoskeletal Tumors	3	1	1
Bone-Forming Tumors	8	19	8
Cartilage-Forming Tumors	5	23	4
Marrow Tumors	6	16	3
Other Osseous Tumors	3	9	2
Tumor-like Conditions	6	23	4
Soft Tissue Tumors: Adipocytic	6	10	4
Fibroblastic and So-Called Fibrohistiocytic Tumors	5	10	2
Other Soft Tissue Tumors	7	18	4
Congenital and Developmental Abnormalities	11	26	9
Skeletal Dysplasia	5	4	4
Systemic Diseases with MSK Involvement	8	16	3
Treatment-related Diseases and Diseases of Nutritional Deficiency or Ingestion	4	11	1
<b>Intermediate Neuroradiology Brain</b>	<b>247</b>	<b>559</b>	<b>60</b>
Anatomy: Intermediate 1	15	51	3
Anatomy: Intermediate 2	17	61	4
Anatomy: Cranial Nerves	13	49	1
Congenital/Genetic	22	48	8
Vascular Malformations	10	26	2
Primary Effects of CNS Trauma	13	30	5
Secondary Effects of CNS Trauma	5	14	1
Cerebral Ischemia/Infarction	23	42	7
Aneurysms and Subarachnoid Hemorrhage	5	8	1
Nontraumatic Intracranial Hemorrhage	6	10	1
Vasculopathies	7	13	2
Infections	18	50	5
Acquired Toxic/Metabolic Disorders	10	15	1
Diseases of the Ventricles and Subarachnoid Spaces	6	4	1
Dementia and Brain Degeneration	6	3	0

Benign Neoplasms	20	44	5
Malignant Neoplasms, Low Grade	10	10	2
Malignant Neoplasms, High Grade	14	40	4
Inflammation/Demyelinating Disease	9	19	2
Nonneoplastic Cysts	18	22	5

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<b>Intermediate Neuroradiology Head and Neck</b>	<b>147</b>	<b>200</b>	<b>69</b>
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Suprahyoid Neck and Oral Cavity	29	40	22
Infrahyoid Neck and Lymph Nodes	30	28	13
Pediatric Head and Neck Diseases	10	9	2
Essentials of Head and Neck Squamous Cell Carcinoma	9	13	5
Sinuses and Face	19	32	10
Orbits	10	18	5
Anterior/Central Skull Base and Cranial Nerves 1-6	10	8	4
Posterior Skull Base and Cranial Nerves 9-12	8	11	3
Temporal Bone and Cranial Nerves 7-8	22	41	5

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<b>Intermediate Neuroradiology Spine</b>	<b>183</b>	<b>207</b>	<b>53</b>
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Anatomy: Spinal Osseous Structures, Ligaments, and Muscles	10	4	1
Anatomy: Spinal Cord, Meninges, Arteries, Veins	5	2	1
Anatomy: Plexi	3	1	0
Congenital and Genetic Disorders	32	41	8
Vascular Disorders	5	12	3
Spinal Trauma	21	18	7
Degenerative Disease and Arthritis	32	25	11
Infection and Inflammatory Disorders	21	23	6
Spinal Neoplasms, Benign	23	34	7
Spinal Neoplasms, Malignant	19	27	6
Postoperative Spine	12	20	3

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<b>Intermediate Nuclear Medicine</b>	<b>95</b>	<b>158</b>	<b>26</b>
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Neuro Intermediate	17	23	3
Gastrointestinal Intermediate	3	7	1
Genitourinary Intermediate	4	3	0
Musculoskeletal Intermediate	22	18	5
Cardiac	5	9	5
Endocrine Intermediate	6	10	2
Oncologic Intermediate	14	12	2
Infection/Inflammation	15	19	3
Procedures and Therapies	9	4	2
Nuclear Medicine QA/QC	0	6	2
Radioisotopes and Safety	0	47	1

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<b>Intermediate Obstetrics</b>	<b>140</b>	<b>186</b>	<b>50</b>
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Fetal Brain	22	31	10
Fetal Face and Neck, Spine	14	13	7
Fetal Chest and Heart	16	11	4
Fetal Abdominal Wall and Gastrointestinal Tract	18	25	3
Fetal Genitourinary Tract	16	17	7
Fetal Musculoskeletal System	6	9	1
Placenta, Membranes, and Umbilical Cord	10	15	1
Multiple Gestations	8	10	1
Chromosomal Anomalies	7	15	6
Fluid, Growth, and Well-Being	10	7	4
Maternal Conditions in Pregnancy and Postpartum Complications	13	33	6

<b>Intermediate Pediatrics</b>	<b>117</b>	<b>278</b>	<b>54</b>
Airways and Chest	12	21	8
Cardiac	14	23	4
Gastrointestinal	18	40	1
Genitourinary	13	35	9
Musculoskeletal	21	42	12
Soft Tissue and Osseous Tumors	15	61	7
Brain, Head and Neck	24	56	13
<b>Intermediate Thoracic</b>	<b>294</b>	<b>307</b>	<b>33</b>
Terminology	19	12	6
Chest Radiographic and CT Signs	13	19	2
Atelectasis and Volume Loss	4	4	1
Developmental Abnormalities: Cardiac and Circulatory	14	15	2
Developmental Abnormalities: Noncardiac and Noncirculatory	12	13	3
Airways Diseases: Neoplasm, Airway Narrowing, and Wall Thickening	14	11	0
Airways Diseases: Bronchial Dilatation and Emphysema/Small Airways Disease	20	24	1
Infections: General Considerations and Bacteria	16	16	3
Infections: Tuberculosis, Viruses, and Fungi	18	21	1
Pulmonary Neoplasms	17	20	0
Interstitial, Diffuse, and Inhalational Lung Disease	24	33	5
Connective Tissue Disorders, Immunological Diseases, and Vasculitis	10	5	3
Mediastinal Abnormalities: Neoplasms, Lymphadenopathy, and Cysts	22	18	3
Mediastinal Abnormalities: Vascular, Glandular, Esophageal, Miscellaneous	11	15	0
Cardiovascular Disorders: Diseases of the Aorta and Great Vessels	12	10	0
Cardiovascular Disorders: Pulmonary Edema, Pulmonary Hypertension, and Thromboembolic Disease	5	7	0
Cardiovascular Disorders: Diseases of the Heart and Pericardium	16	15	0
Trauma	9	18	0
Post-Treatment Chest: Surgical Procedures and Complications	10	10	1
Post-Treatment Chest: Radiation, Chemotherapy, Ablation	4	4	1
Pleural Diseases	10	8	1
Chest Wall and Diaphragm	14	9	0
<b>Intermediate Ultrasound</b>	<b>152</b>	<b>186</b>	<b>43</b>
Liver Intermediate	23	28	7
Biliary Tract Intermediate	15	24	4
Spleen	12	9	2
Pancreas Intermediate	8	12	2
Adrenal Gland	10	6	2
Urinary Tract Intermediate	21	26	8
Female Pelvis Intermediate	15	21	5
Prostate	5	5	0
Scrotum Intermediate	12	15	4
Vascular Intermediate	8	10	3
Abdominal Wall/Peritoneal Cavity	12	14	3
Thyroid/Parathyroid	11	16	3
<b>Intermediate Vascular and Interventional</b>	<b>121</b>	<b>69</b>	<b>37</b>
Thoracic Aorta and Great Vessels Intermediate	12	8	1
Abdominal Aorta and Visceral Vasculature Intermediate	11	10	2
Pulmonary Vasculature Intermediate	4	3	0
Arterial Revascularization and Exclusion Intermediate	3	2	1
Venous Interventions	17	11	8
Portal Hypertension and Portal Vein Interventions	8	6	5
Renal Vasculature	11	6	4

Dialysis	4	4	4
Upper Extremities	11	3	3
Lower Extremities	19	7	2
Nonvascular Gynecology Procedures	3	2	1
Other Nonvascular Interventions	6	2	2
Transplant	4	3	1
Oncologic Procedures	8	2	3
<b>Intermediate Special Topics Physics *</b>	NA	<b>94</b>	NA
Magnetic Resonance Imaging		71	
Nuclear Medicine Physics and Instrumentation		23	
<b>Intermediate Special Topics Appropriateness Criteria and Practice Guidelines *</b>	NA	<b>182</b>	NA
Breast Imaging Appropriateness Criteria and Practice Guidelines		7	
Cardiac Imaging Appropriateness Criteria and Practice Guidelines		2	
Gastrointestinal Imaging Appropriateness Criteria and Practice Guidelines		7	
Genitourinary Imaging Appropriateness Criteria and Practice Guidelines		21	
Musculoskeletal: Trauma Appropriateness Criteria and Practice Guidelines		10	
		14	
Musculoskeletal: Non-Traumatic Disease Appropriateness Criteria and Practice Guidelines			
Brain Imaging Appropriateness Criteria and Practice Guidelines		18	
Head and Neck Imaging Appropriateness Criteria and Practice Guidelines		10	
Spine Imaging Appropriateness Criteria and Practice Guidelines		6	
Obstetrics Imaging Appropriateness Criteria and Practice Guidelines		7	
Pediatrics Imaging Appropriateness Criteria and Practice Guidelines		19	
Thoracic Imaging Appropriateness Criteria and Practice Guidelines		13	
Ultrasound Imaging Appropriateness Criteria and Practice Guidelines		4	
Vascular and Interventional Appropriateness Criteria and Practice Guidelines		44	

\* Lessons include suggested reading topics and practice questions only