

I. INTRODUCTION TO IMAGING MODALITIES

- 1. Introduction to Plain Film Radiography, Fluoroscopy and Tomosynthesis**
- 2. Introduction to Ultrasonography, CT and MRI**
- 3. Introduction to Nuclear Medicine and Molecular Imaging**
- 4. Introduction to Image Processing, Visualization, and Analysis**
- 5. Computers in Radiology**
- 6. Introduction to contrast agents**
- 7. Radiation dose and safety considerations in imaging**

II. BREAST IMAGING

- 8. Screening Mammography**
- 9. Diagnostic Mammography**
- 10. Breast Ultrasonography (US) and Breast Procedures**
- 11. Breast MRI**

III. NONINVASIVE CARDIAC AND VASCULAR IMAGING

- 12. Cardiac and Pericardiac Imaging**
- 13. Aortic Imaging**
- 14. Coronary Arterial Imaging**
- 15. Pulmonary Vascular Imaging**

16. Peripheral and Visceral Vascular Imaging

IV. THORACIC IMAGING

17. Imaging of Lung Nodules and Masses

18. Imaging of Alveolar Lung Disease

19. Imaging of Interstitial Lung Disease

20. Imaging of Mediastinal Disease

21. Imaging of Pleural Disease

22. Tubes, Lines, Catheters and Other Devices

V. GASTROINTESTINAL IMAGING

23. Abdominal Radiography

24. Fluoroscopy of the Upper Gastrointestinal Tract

25. CT and MRI of the Upper Gastrointestinal Tract

26. Fluoroscopy of the Lower Gastrointestinal Tract

27. CT and MRI of the Lower Gastrointestinal Tract

28. CT and MRI of the Liver, Gallbladder and Biliary Tract

29. CT and MRI of the Spleen

30. CT and MRI of the Pancreas

31. CT and MRI of the Peritoneum, Omentum and Mesentery

32. CT and MRI of the Acute Abdomen and Pelvis

VI. GENITOURINARY IMAGING

- 33. Urography**
- 34. Genitourinary Tract Fluoroscopy**
- 35. CT and MRI of the Kidney**
- 36. CT and MRI of the Adrenal Glands**
- 37. CT and MRI of the Retroperitoneum**
- 38. Imaging of the Female Pelvis**
- 39. Imaging of the Male Pelvis**

VII. NEURORADIOLOGY

- 40. Brain Imaging: Anatomy, Trauma and Tumors**
- 41. Brain Imaging: Inflammatory, Infectious and Vascular Diseases**
- 42. Advanced Neurospinal Imaging**
- 43. Head and Neck Imaging Part 1**
- 44. Head and Neck Imaging Part 2**

VIII. MUSCULOSKELETAL IMAGING

- 45. Imaging of Extremity Trauma**
- 46. Imaging of Spinal Trauma**
- 47. Imaging of Non-Traumatic Spinal Disorders**
- 48. Imaging of Metabolic Bone Disease**
- 49. Imaging of Arthritis**
- 50. Imaging of Musculoskeletal Infection**

51. Imaging of Musculoskeletal Tumors

52. MRI of the Shoulder

53. MRI of the Elbow

54. MRI of the Hand and Wrist

55. MRI of the Hip

56. MRI of the Knee

57. MRI of the Foot and Ankle

IX. ULTRASONOGRAPHY

58. Obstetrical Ultrasonography in the First Trimester

59. Obstetrical Ultrasonography in the Second Trimester

60. Advanced Fetal Ultrasonography and Therapy

61. Neck Ultrasonography

62. Abdominal Ultrasonography

63. Musculoskeletal Ultrasonography

64. Vascular Ultrasonography

X. INTERVENTIONAL RADIOLOGY

65. Patient Sedation and Pain Management

66. Equipment, Terms and Techniques in Interventional Radiology

67. Inferior Vena Cava Filters

68. Image-Guided Percutaneous Biopsy

69. Advanced Procedures in Interventional Radiology

70. Peripheral Vascular Disease Diagnosis and Intervention

71. Embolization Techniques and Applications

72. Hepatobiliary and Portal Venous Interventions

73. Genitourinary and Gastrointestinal Interventional Radiology

74. Neurointerventional Radiology

75. Musculoskeletal Interventional Radiology

XI. NUCLEAR RADIOLOGY

76. Positron Emission Tomography of Oncological Disorders

77. Positron Emission Tomography of Non-Oncological Disorders

78. Bone Scintigraphy

79. Pulmonary Scintigraphy

80. Thyroid, parathyroid and Salivary Gland Scintigraphy

81. Gastrointestinal and Genitourinary Scintigraphy

82. Cardiac Scintigraphy

83. Cerebrovascular Scintigraphy

84. Radionuclide Therapeutic Intervention

XII. PEDIATRIC RADIOLOGY

85. Pediatric Thoracic Radiology

- 86. Pediatric Cardiovascular Radiology**
- 87. Pediatric Gastrointestinal Radiology**
- 88. Pediatric Genitourinary Radiology**
- 89. Pediatric Neuroradiology**
- 90. Pediatric Musculoskeletal Radiology**
- 91. Imaging of Child Abuse**

XIII. DIAGNOSTIC RADIOLOGY AS A PROFESSION

- 92. Training Pathways in Diagnostic Imaging**
- 93. Medicolegal Issues in Diagnostic Imaging**
- 94. Radiology Organizations**
- 95. Academic Radiology**