

Contents

Section 1: Surface Anatomy

1. Introduction	3
• Anatomical Position of the Human Body	3
2. Surface Anatomy of Upper Limb	5
• Bony Landmarks	5
• Blood Vessels	8
• Nerves of the Upper Limb	10
3. Surface Anatomy of Lower Limb	16
• Bony Landmarks	16
4. Surface Anatomy of Thorax	29
• Bony and Soft Tissue Landmarks	29
5. Surface Anatomy of Abdomen	51
• Regions of the Anterior Abdominal Wall	53
6. Surface Anatomy of Head and Neck	73
• Bony Landmarks	73
• Head and Neck	79
• Thyroid Gland	84
• Cranial Nerves	87
7. Dermatomes	89
• Dermatomes of the Upper Limb	90
• Dermatomes of the Lower Limb	91
• Dermatomes of the Thorax	91
• Dermatomes of the Abdomen	92
• Dermatomes of the Head and Neck	92

Section 2: Radiological Anatomy

8. Introduction	97
9. Principles of Radiology	98
• Definition	98
• Radiography	99
• Radiographic Views	101
• Contrast Radiography	102
• Fluoroscopy	104
• Mammography	105
• Positron Emission Mammography	106
• Ultrasound	107
• 2D Ultrasound Images of Various Organs	109
• 3D and 4D Ultrasound	112
• Doppler Ultrasonography	112
10. Newer Imaging Techniques	114
• Tomography	114
• Computed Tomography/Computer Axial Tomography	115
• Positron Emission Tomography	119
• Magnetic Resonance Imaging or Nuclear Magnetic Resonance	121
• Differences Between CT and MRI	122
• Contrast MRI	123
• Magnetic Resonance Angiography	124
11. Radiology of Upper Limb	131
• Shoulder Region	131
• Elbow	131
• Wrist and Hand	132

12. Radiology of Lower Limb	141	
• Hip Region	141	
• Knee Joint	143	
• Ankle Joint	145	
• Foot	146	
13. Radiology of Thorax	151	
• Lung Shadow	151	
• Cardiac Shadow	152	
• Cardiac Size Estimation	154	
• Mediastinal Shadow	156	
• Skeletal Shadow	156	
• Shadows of Diaphragm	157	
• Contrast Radiograms of Thoracic Region	161	
• Bronchography	162	
• Aortogram	163	
• Barium Swallow	164	
• Coronary Angiography	165	
14. Radiology of Abdomen and Pelvis	171	
• Contrast Radiogram of Abdomen and Pelvis	172	
• Barium Enema	175	
• Cholecystography	176	
		• Endoscopic Retrograde Cholangiopancreatography 177
		• Pyelography 178
		• Hysterosalpingography 182
15. Radiology of Head and Neck	186	
• Views	186	
• Posteroanterior View	186	
• Anteroposterior View	187	
• Lateral View	187	
• Superior View	189	
• Waters View	190	
• Radiology of Neck	190	
• Carotid Angiography	191	
• Vertebral Artery Angiography	192	
• Sialography	193	
16. Ossification Centers of Human Skeletal System	200	
• Upper Limb	201	
• Ossification of Scapula	201	
• Lower Limb	205	
• Skull	207	
• Vertebrae	208	
<i>Index</i>		211