

Contents

1 Basic Science and Immunology	1
<i>Sima Jain</i>	
1.1 Embryology	2
1.2 Epidermis	2
1.3 Basement Membrane Zone (BMZ)	6
1.4 Melanocytes, Langerhans, and Merkel Cells	9
1.5 Dermis	10
1.6 Appendageal Glands and Nerves	11
1.7 Hair and Nails	13
1.8 Wound Healing and Cytokines	16
1.9 Immunology	17
2 Pediatric Dermatology	29
<i>Sima Jain and Iris Lim Trinh</i>	
2.1 Neonatal Dermatology	30
2.2 Childhood Infectious Diseases	34
2.3 Papulosquamous and Eczematous Dermatoses	39
2.4 Pigmented Lesions	41
2.5 Hypopigmented Lesions	45
2.6 Bullous Diseases	46
2.7 Epidermal, Appendageal and Dermal Tumors	48
2.8 Tumors of Fat, Muscle and Bone	54
2.9 Vascular Disorders	55
2.10 Genodermatoses	61
3 General Dermatology	95
<i>Sima Jain and Milind G. Parikh</i>	
3.1 Acne and Related Conditions	96
3.2 Papulosquamous, Lichenoid and Eczematous Dermatoses	101
3.3 Granulomatous, Metabolic and Depositional Diseases	114
3.4 Erythemas and Purpuras	125
3.5 Vesiculobullous Diseases	128
3.6 Connective Tissue Diseases	135
3.7 Disorders of Fat	144
3.8 Pregnancy Dermatoses	147
3.9 Vasculitides and Vaso-Occlusive Diseases	149
3.10 Eosinophilic and Neutrophilic Dermatoses	154
3.11 Pigmentary Disorders and Vitamin Deficiencies	157
3.12 Cutaneous Manifestations of Systemic Diseases	160
3.13 Disorders of Hair	167
3.14 Neuropsychocutaneous Disorders	173
3.15 Oral Diseases	174
3.16 Nail Diseases	179
3.17 Photodermatoses	185

4	Infectious Diseases	195
	<i>Sima Jain</i>	
4.1	Viral Infections	196
4.2	Bacterial Infections	204
4.3	Protozoa and Worms	241
4.4	Infestations	244
4.5	Creatures of Significance	245
5	Benign and Malignant Tumors	257
	<i>Sima Jain</i>	
5.1	Benign Epidermal and Dermal Tumors	258
5.2	Premalignant and Malignant Tumors	264
5.3	Cysts	277
6	Dermatologic Surgery	281
	<i>Sima Jain</i>	
6.1	Surgical Anatomy	282
6.2	Excisions, Flaps, and Grafts	290
6.3	Surgical Complications	295
6.4	Cryosurgery and Electrosurgery	297
6.5	Pre-operative Considerations	299
6.6	Local Anesthesia	300
6.7	Sutures, Antiseptics, and Dressings	302
6.8	Nail Surgery	305
6.9	Cosmetic Dermatology	306
7	Pharmacology and Drug Reactions	317
	<i>Sima Jain</i>	
7.1	Anti-Infective Medications	318
7.2	Immunosuppressant Drugs	323
7.3	Other Drugs	329
7.4	Drug Reactions and Interactions	333
8	Pathology	345
	<i>Sima Jain and Seema Pasha Apichai</i>	
8.1	Stains	346
8.2	Histologic Bodies	351
8.3	Histopathologic Findings	353
8.4	Histopathologic Images	359
9	Dermoscopy and Electron Microscopy	375
	<i>Sima Jain</i>	
9.1	Dermoscopy	376
9.2	Electron Microscopy (EM)	385
10	Life After Boards	389
	<i>Sima Jain</i>	
10.1	Advice for Life After Boards	390
10.2	Taking the Job	390
10.3	Coding and Documentation	392
10.4	Continuing Medical Education	398
11	High Yield Facts and Buzz Words	401
	<i>Sima Jain</i>	
11.1	Genetic Diseases	402
11.2	Jain Buzz Words	410
	Index	417