

Contents

Preface	vii
Acknowledgments.....	ix
1 Skin: Structure and Function	1
1.1 Structure.....	1
1.1.1 Epidermis.....	1
1.1.2 Dermoepidermal Junction.....	5
1.1.3 Dermis	6
1.2 Functions	14
2 Immune System of the Skin	17
2.1 The Stratum Corneum	18
2.2 Cellular Components	18
2.2.1 Langerhans Cells.....	18
2.2.2 Keratinocytes.....	18
2.2.3 T Cells	19
2.2.4 Mast Cells	19
2.2.5 Dermal Dendritic Cells	19
2.3 Molecular Components	20
2.3.1 Antigens and Haptens	20
2.3.2 Super-Antigens	20
2.3.3 Histocompatibility Antigens.....	20
2.3.4 Antibodies	20
2.3.5 Cytokines.....	21
2.3.6 Eicosanoids	22
2.3.7 Cellular Adhesion Molecules (CAMs).....	22
2.3.8 Complement	22

2.4	Hypersensitivity Reactions	23
2.4.1	Type I (Immediate).....	23
2.4.2	Type II (Cytotoxic Reaction)	23
2.4.3	Type III (Immune Complex Disease).....	23
2.4.4	Type IV (Cell-Mediated or Delayed Hypersensitivity Reaction)	23
3	Diagnosis of Skin Disease.....	25
3.1	Approach to a Skin Patient	25
3.1.1	History Taking.....	25
3.1.2	Examination	26
3.2	Primary and Secondary Lesions of the Skin ..	31
3.2.1	Primary Lesions	31
3.2.2	Secondary Lesions	32
3.2.3	Special Lesions	34
4	Bacterial Infections	37
4.1	Impetigo.....	37
4.2	Folliculitis/Furunculosis/Carbuncle	39
4.3	Recurrent Furunculosis	42
4.4	Erysipelas/Cellulitis	42
4.5	Ecthyma.....	44
4.6	Necrotizing Fasciitis	45
4.7	Erythrasma	46
4.8	Pitted Keratolysis	47
4.9	Trichomycosis Axillaris	48
4.10	Tuberculosis.....	48
4.11	Leprosy (Hansen's Disease)	52
4.12	Pseudomonas Infections	57
4.13	Rocky Mountain Spotted Fever (RMSF)	59
4.14	Lymes Disease (Erythema Chronicum Migrans)	60
4.15	Sexually Transmitted Diseases (Bacterial) ...	62
4.15.1	Syphilis.....	62
4.15.2	Congenital Syphilis.....	67
4.15.3	Gonorrhea.....	69
4.15.4	Chancroid (Soft Chancre)	71

5	Superficial Fungal Infections	73
5.1.1	Tinea Pedis.	75
5.1.2	Tinea Manuum	75
5.1.3	Tinea Capitis	76
5.1.4	Tinea Corporis.....	79
5.1.5	Tinea Cruris.....	79
5.1.6	Tinea Barbae	79
5.1.7	Onychomycosis (Tinea of the Nails) .	81
5.1.8	Tinea Incognito	81
5.5	Pityriasis Versicolor (Furfuracea).....	88
5.6	Pityrosporum Folliculitis (Malassezia Folliculitis)	90
5.7	Candidiasis.....	91
5.8	Subcutaneous Fungal Infections.....	95
5.8.1	Madura Foot (Mycetoma)	95
5.8.2	Sporotrichosis	97
5.9	Deep Fungal Infections	98
5.9.1	Cryptococcosis.....	98
5.9.2	Histoplasmosis.....	98
5.9.3	Blastomycosis	98
5.9.4	Coccidioidomycosis	99
5.9.5	Treatment of Deep Mycosis.....	99
6	Viral Infections	101
6.1	Herpes Simplex.....	101
6.2	Herpes Zoster (Shingles).....	105
6.3	Varicella (Chickenpox)	108
6.4	Warts.....	110
6.5	Molluscum Contagiosum	116
6.6	Hand Foot and Mouth Disease.....	119
6.7	Erythema Infectiosum (Fifth Disease).....	119
6.8	HIV Infection (AIDS)	120
6.8.3	Post Exposure Prophylaxis	122
7	Parasitic Infestations and Diseases	
	Caused by Arthropods	125
7.1	Scabies	125
7.1.4	Norwegian Scabies	129
7.1.5	Animal Scabies	130

7.1.6	Other Mites	131
7.2	Pediculosis	131
7.2.1	Pediculosis Capitis	132
7.2.2	Pedunculosis Corporis	133
7.2.3	Pediculosis Pubis.....	133
7.3	Leishmaniasis	136
7.5	Myiasis	140
7.6	Filariasis	142
7.7	Onchocerciasis (River Blindness).....	144
7.9	Insect Bites	145
7.9.1	Prophylaxis	147
7.10	Papular Urticaria	148
8	Eczema	151
8.1.2	Source of Injurious Agent	152
8.2.1	Acute Eczema	152
8.2.2	Subacute Eczema	153
8.2.3	Chronic Eczema	153
8.4.1	Exogenous.....	157
8.4.2	Endogenous Eczemas.....	162
9	Keratinizing and Papulosquamous Disorders	179
9.1	Psoriasis	179
9.1.1	Etiology	179
9.1.2	Histopathology	180
9.2	Parapsoriasis	188
9.3	Lichen Planus	189
9.3.1	Etiology	189
9.3.3	Histopathology	194
9.4	Pityriasis Rosea.....	195
9.5	Pityriasis Rubra Pilaris (PRP).....	197
9.6	Parapsoriasis	198
9.7	Follicular Keratoses	198
9.7.1	Keratosis Pilaris	199
9.7.2	Lichen Spinulosis	200
9.8	Hyperkeratosis of the Palms and Soles	200
9.9	Corns	201
9.10	Congenital Disorders of Keratinization.....	203

9.10.1	Darier's Disease	203
9.10.2	Ichthyosis	204
10	Diseases of Connective Tissue	211
10.1	Lupus Erythematosus	211
10.1.1	Chronic Discoid Lupus Erythematosus (CDLE)	211
10.1.2	Subacute Cutaneous Lupus Erythematosus (SCLE)	213
10.1.3	Systemic Lupus Erythematosus	213
10.2	Dermatomyositis (DM)	218
10.2.1	Adult Dermatomyositis	219
10.2.2	Childhood Dermatomyositis	220
10.3	Scleroderma	221
10.3.1	Morphea	221
10.3.2	CREST Syndrome	223
10.3.3	Systemic Sclerosis	223
10.3.5	Mixed Connective Tissue Disorder ...	226
10.4	Miscellaneous Disorders of Connective Tissue	226
10.4.1	Keloids	226
10.4.2	Knuckle Pads (Holoderma)	228
10.5	Hereditary Disorders of Connective Tissue ..	229
10.5.1	Pseudoxanthoma Elasticum	229
10.5.2	Cutis Laxa	230
10.5.3	Ehler Danlos Syndrome	231
11	Bullous Disorders: Autoimmune and Childhood Bullous Dermatoses	233
11.1	Pemphigus	234
11.2	Pemphigoid	239
11.3	Dermatitis Herpetiformis (DH): Duhning Brocq Disease	242
11.4	Acquired Epidermolysis Bullosa (Epidermolysis Bullosa Acquisita)	245
11.5	Congenital Bullous Disorders	246
11.5.1	Epidermolysis Bullosa	246

11.5.3	Chronic Bullous Disease of Childhood (Childhood Linear IgA Disease)	249
11.5.4	Acrodermatitis Enteropathica (AE) .	250
12	Vasculitis, Common Erythemas, and Lymphatic Disorders	253
12.1	Approach to a Patient with Vasculitis	254
12.4	Leucocytoclastic Vasculitis.	255
12.4.1	Cutaneous Manifestations	255
12.4.2	Systemic Manifestations.	255
12.5	Henoch–Schonlein Purpura (HSP).	256
12.6	Polyarteritis Nodosa	258
12.7	Pyoderma Gangrenosum	259
12.8	Giant Cell Arteritis.	260
12.9	Erythema Multiforme	260
12.10	Erythema Nodosum (EN)	263
12.11	Common Localized Erythemas.	265
12.11.1	Flushing and Blushing	265
12.11.2	Erythema Palmare	266
12.12	Generalized Nonspecific Erythemas	266
12.12.1	Scarlatiniform Erythema	266
12.12.2	Morbilloform Erythema	266
12.13	Pigmented Purpuric Dermatitis (PPD).	266
12.13.1	Schamberg’s Disease	267
12.14	Lymphatic Disorders	268
12.14.1	Lymphangitis.	268
12.14.2	Lymphoedema.	269
13	Exanthems and Hypersensitivity Syndromes.	271
13.1	Exanthems	271
13.1.1	Measles (Rubeola, Morbilli)	271
13.1.2	Rubella (German Measles)	273
13.1.3	Scarlet Fever	274
13.1.4	Hand, Foot and Mouth Disease	275
13.2	Hypersensitivity Syndromes (Toxic Erythemas)	275
13.2.3	Kawasaki’s Disease.	277
13.2.4	Toxic Shock Syndrome.	277

13.2.5	Staphylococcal Scalded Skin Syndrome (Ritter's Disease)	277
13.2.6	Toxic Epidermal Necrolysis (TEN) ..	278
14	Urticaria	281
14.3	Mastocytosis	286
15	Pruritus	287
15.1	Etiology	287
15.2	Evaluation of the Itching Patient	289
15.5	General Guidelines	293
16	Leg Ulcers	295
16.1	Venous Ulcers	295
16.2	Arterial Ulcers	299
16.3	Decubitis Ulcers (Bedsore)	302
16.4	Neuropathic Ulcers	302
17	Disorders of Pigmentation	305
17.1	Albinism	305
17.2	Vitiligo	307
17.3	Melasma (Chloasma)	311
17.4	Freckles	313
17.5	Acanthosis Nigricans (AN)	314
17.6	Periocular Hyperpigmentataion	315
18	Disorders of Ultraviolet Radiation and Injuries Due to Cold	317
18.2	Direct Effect of Sunlight on the Skin	320
18.2.1	Sunburn	320
18.2.2	Tanning	320
18.2.3	Epidermal Thickening	320
18.2.4	Vitamin D Production	321
18.2.5	Immunological Effects	321
18.2.6	Chronic Effects of Ultraviolet Radiation	321
18.2.7	Protection Against Ultraviolet Radiation	324

18.3	Photosensitive Skin Reactions	326
18.4	Skin Diseases Affected by Sunlight	326
18.5	Congenital Disorders Leading to Increased Photosensitivity.	327
18.5.1	Porphyrias	327
18.5.2	Xeroderma Pigmentosum	330
18.6	Injuries Due to Cold.	332
18.6.1	Asteatosis (Eczema Craquele)	332
18.6.2	Chilblain (Perniosis).	332
18.6.3	Frostbite.	333
18.6.4	Raynaud's Phenomenon	334
19	Diseases of the Sebaceous, Sweat, and Apocrine Glands	337
19.1	Acne Vulgaris	337
19.2	Rosacea	345
19.3	Perioral Dermatitis.	347
19.4	Hyperhidrosis of the Hands, Feet, and Axilla . .	348
19.5	Miliaria (Prickly Heat).	350
19.6	Congenital Disorders of the Sweat Glands . .	351
19.6.1	Anhidrotic Ectodermal Dysplasia . .	351
19.7	Intertrigo	353
19.8	Hidradenitis Suppurativa (HS).	354
19.9	Bromhidrosis (Fetid Sweat).	355
19.10	Tumors of the Sweat Glands	355
19.10.1	Syringomas.	355
19.10.2	Cylindroma (Turban Tumor).	356
20	Hair Disorders	359
20.1	Excessive Hair.	360
20.1.1	Hirsutism	361
20.2	Loss of Hair (Alopecia).	364
20.2.1	Nonscarring Alopecia.	364
20.2.2	Scarring Alopecia	372
20.3	Disorders of Color and Texture.	373
20.3.1	Premature Graying of the Hair.	374
20.3.2	Dryness of the Hair	374
20.4	Tumor of the Hair Follicles	374
20.4.1	Pilomatricoma	374

20.4.2	Trichoepithelioma	375
20.5	Miscellaneous Disorders	376
20.5.1	Pityriasis Amiantacea	376
20.5.2	Pseudofolliculitis Barbae	377
20.5.3	Acne Keloidalis	378
20.5.4	Dissecting Cellulitis of the Scalp (Perifolliculitis Capitis Abscedens et Suffodiens)	379
21	Nail Disorders	381
21.1	Paronychial Disorders	381
21.2	Common Nail Dystrophies	386
21.3	Discoloration	389
21.4	Tumors Adjacent to and Under the Nails	390
22	Diseases of the Subcutaneous Tissue	395
22.1	Panniculitis	395
22.1.1	Evaluation of Panniculitis	396
22.2	Fat Dystrophies	397
22.3	Dercums Disease (Adipose Dolorosa)	397
22.4	Sclerema Neonatorum	398
22.5	Subcutaneous Fat Necrosis of the Newborn . .	398
22.6	Cellulite	399
23	Tumors of the Skin	401
23.1	Benign Tumors	401
23.1.1	Skin Tags	401
23.1.2	Pyogenic Granuloma (Acquired Hemangioma)	402
23.1.3	Milia	402
23.1.4	Dermatosa Papulosa Nigra	403
23.1.5	Seborrheic Keratosis	405
23.1.6	Sebaceous Cyst (Epidermoid Cyst) . .	406
23.1.7	Trichilemmal Cyst	407
23.1.8	Dermatofibroma	407
23.1.9	Lipoma	408
23.1.10	Keratoacanthoma	408
23.2	Premalignant Tumors	410
23.2.1	Bowen's Disease	410

23.2.2	Solar Keratosis	411
23.3	Malignant Tumors	413
23.3.1	Basal Cell Carcinoma (BCC)	413
23.3.2	Squamous Cell Carcinoma (SCC) ...	416
23.3.3	Malignant Melanoma	418
23.3.4	Cutaneous Lymphoma (Mycosis Fungoides)	423
23.3.5	Kaposi's Sarcoma	426
23.3.6	Paget's Disease of the Nipple	427
24	Naevi and Hereditary Disorders of the Skin	431
24.1	Naevi	431
24.1.1	Epidermal Naevi	431
24.1.2	Vascular Naevi	432
24.1.3	Pigmented Naevi (Moles)	434
24.1.4	Naevus Achromicus	440
24.1.5	Lymphangioma	440
24.1.6	Connective Tissue Naevus	441
24.2	Neurofibromatosis	442
24.3	Adenoma Sebaceum (Tuberous Sclerosis) ...	444
25	Skin and Malnutrition	447
25.1	Vitamin and Mineral Deficiency and Their Effects on the Skin	449
26	Skin and Systemic Disease	451
26.1	Diabetes Mellitus	451
26.1.1	Vascular Manifestations	451
26.1.2	Diabetic Neuropathy	452
26.2	Liver Disease	453
26.2.1	Pigmentary Abnormalities	454
26.2.2	Vascular Abnormalities	454
26.2.3	Hair and Nail	455
26.2.4	Miscellaneous Changes	455
26.3	Kidney Disease	456
26.4	Rheumatoid Arthritis	457
26.4.1	Rheumatic Nodules	457
26.4.2	Vascular Lesions	458

26.4.3	Atrophic Skin in Rheumatoid Arthritis.....	459
26.4.4	Rheumatoid Neutrophilic Dermatosis.....	459
26.5	Hyperthyroidism.....	459
26.6	Hypothyroidism	459
26.7	Cushing's Syndrome.....	460
26.8	Addison's Disease.....	460
26.9	Acromegaly	461
26.10	Hyperlipidemias	461
26.11	Phenylketonuria	463
26.12	Sarcoidosis.....	464
26.12.1	Cutaneous Manifestations.....	464
26.12.2	Pulmonary Manifestations.....	465
26.12.3	Ocular Manifestations	466
26.13	Skin and Immunodeficiency	466
26.14	Skin and Internal Malignancy.....	467
26.14.1	Invasion of the Skin by Malignant Cells	467
26.14.2	Exposure to the Carcinogen	468
26.14.3	Physiological	468
26.14.4	Genetic Disease Predisposing to Malignancy	468
26.14.5	Miscellaneous	469
27	Skin and the Psyche.....	471
27.1	The Effect of Skin Disease on Psyche	471
27.2	The Effect of Psyche on the Skin	472
27.2.1	Dermatitis Artifacts	472
27.2.2	Trichotillomania	472
27.2.3	Delusion of Parasitosis.....	473
27.2.4	Acne Excoriee.....	474
27.2.5	Dermatological Non-disease	474
28	Erythroderma.....	477
29	Ages of Man and Their Dermatoses	481
29.1	Neonates and Infants	481

29.1.1	Erythema Toxicum Neonatorum (ETN)	482
29.1.2	Transient Neonatal Pustular Melanosis	482
29.1.3	Miliaria	483
29.1.4	Neonatal Acne	483
29.2	Skin and Pregnancy	484
29.3	Dermatoses of Pregnancy	484
29.3.1	Pruritus	484
29.3.2	Polymorphous Eruption of Pregnancy (Pruritic Urticarial Papules and Plaques of Pregnancy, PUPP) ...	484
29.3.3	Impetigo Herpetiformis	485
29.3.4	Herpes Gestationis	485
29.4	Skin and the Menopause	486
29.5	Cutaneous Disease at the Menopause	486
29.5.1	Menopausal Flushing	486
29.5.2	Keratoderma Climacterum	486
29.6	Aging Skin	487
29.7	Dermatoses of Old Age	488
29.8	Looking Younger	488
29.8.1	Nonsurgical Cosmetic Procedures ...	488
30	Diseases of the Oral Cavity	491
30.1	Apthous Ulcer	491
30.2	Oral Candidiasis (Trush)	493
30.3	Leukoplakia	494
30.4	White Hairy Leukoplakia	495
30.5	Submucous Fibrosis	496
30.6	Lichen Planus	497
30.7	Betel Leaf Stomatitis	498
30.8	Lesions on the Tongue	499
30.9	Lesions on the Lips	499
30.9.1	Actinic Cheilitis	500
30.9.2	Angular Cheilitis	500
30.9.3	Cheilitis Exfoliativa	501
31	Diseases of the External Genitalia	503
31.1	Vulval Intraepithelial Dysplasia (VIN)	503
31.2	Paget's Disease	504

31.3	Lichen Sclerosus (LS).....	504
31.4	Erythroplasia of Queyrat.....	505
32	Miscellaneous Disorders.....	507
32.1	Amyloidosis.....	507
32.2	Mucinosis.....	509
32.3	Langerhan's Cell Histiocytosis	510
32.4	Benign Lymphocytic Cutaneous Infiltrations	511
32.5	Kyrle's Disease	512
32.6	Granuloma Annulare.....	512
32.7	Reiter's Disease	513
32.8	Poikiloderma	514
32.9	Cutis Verticis Gyrata	515
33	Drug Reactions	517
33.1	Classification of Drug Reactions.....	517
33.1.1	Non-immunological Reactions	518
33.1.2	Immunological Reactions	518
33.2	Approach to a Patient with a Suspected Drug Reaction.....	518
33.2.1	Fixed Drug Eruption	519
33.2.2	Exfoliative Dermatitis	520
34	Management of Skin Diseases.....	523
34.1	Principles of Topical Therapy	523
34.2	Drugs Commonly Used in the Management of Skin Disorders	525
34.2.1	Corticosteroids	525
34.2.3	Methotrexate.....	530
34.2.4	Azathioprine	531
34.2.5	Cyclosporin	532
34.2.6	Dapsone.....	532
34.2.7	Psoralens	533
34.2.8	Retinoids	533
34.2.9	Griseofulvin.....	535
34.2.10	Polyenes.....	535
34.2.11	Azole Antifungals.....	536
34.2.12	Allylamines	537
34.2.13	Acyclovir	537

34.3	Immunobiologicals	538
34.3.1	Alefacept	539
34.3.2	Efalizumab.....	539
34.3.3	Etanercept	539
34.3.4	Infliximab.....	539
34.3.5	Denileukin Diftox	540
34.3.6	Interferons (IFN)	540
34.3.7	Intravenous Immunoglobulins	540
34.4	Topical Immunomodulators	541
34.4.1	Macrolactams	541
34.4.2	Contact Sensitizers	541
34.4.3	Immunostimulants	542
34.4.4	Miscellaneous	542
34.5	Physical Modalities Used in the Management of Skin Disorders	543
34.5.1	Cryotherapy.....	543
34.5.2	Phototherapy with Psoralens (PUVA)	543
34.5.3	Narrow Band UVB Radiation (311 nm).....	544
34.5.4	Photodynamic Therapy	544
34.5.5	Lasers	545
34.5.6	Electrocautery/Electrosurgery	546
34.5.7	Electrolysis.....	547
34.5.8	Iontophoresis.....	547
34.5.9	Surgical Excision.....	548
Appendix		551
	Compression Bandaging for Venous Ulcers	551
	Patch Testing and Prick Testing	555
	Removal of the Nail by Urea	561
	Ultraviolet Radiation and Photochemotherapy	563
	Lasers Therapy.....	569
	Cryotherapy	573
	Management and Care of Wounds.....	577
Bibliography		581
Index		583



<http://www.springer.com/978-1-84882-861-2>

Dermatology in Clinical Practice

Zaidi, Z.; Lanigan, S.W.

2010, XXVI, 596 p., Softcover

ISBN: 978-1-84882-861-2