

Contents

Preface, xv

Acknowledgments, xvii

Part 1 General Dermatology, 1

COMMON WORK-UPS, SIGNS, AND MANAGEMENT, 3

Dermatologic Differential Algorithm, 3

Direct Immunofluorescence (Dif), 3

False positive/negative DIFs, 3

Workup Quick Reference Orders, 4

Acne, 6

Alopecia Workup, 7

Telogen effluvium, 10

Androgenic alopecia, 10

Alopecia areata, 11

Other alopecia treatments, 12

Aphthosis Workup and Treatment, 13

Dermatologic Signs, 15

Folliculitis, 21

Melasma, 22

IMMUNOLOGY AND IMMUNOLOGIC DISEASE, 24

Lupus Erythematosus, 24

Autoantibody, 26

Sensitivities and specificities, 26

In connective tissue diseases, 28

Anti-nuclear antibodies, 29

ANCA (Anti-neutrophil cytoplasmic antibodies), 30

Treatment of ANCA-associated vasculitis, 30

Vasculitis, 31

Small vessel vasculitis, 31

Medium vessel vasculitis, 33

Large vessel vasculitis, 34

Cryoglobulinemia, 34

Bullous Disorders, 36

Intracorneal/subcorneal, 36

Intraepidermal, 36

Suprabasilar, 37

Subepidermal with little inflammation, 37

Epidermolysis bullosa, 39

Major bullous diseases – clinicopathologic findings, 42

- Complement, 46
 - Angioedema and complement levels, 46
 - Complement deficiencies, 47
- GVHD, 47
- HLA associations, 48
- Th profiles, 50

SPECIAL SITES: GLANDS, NAIL, BONE, MUCOSA, 51

- Glands, 51
- Nail terminology, 53
- Disorders or drugs associated with nail, bone, or ocular findings, 57
- Genital ulcers, 67

INFECTION AND INFESTATIONS, 68

- Fungal Disease / Mycoses, 68
 - Laboratory tests, 68
 - Superficial mycoses, 68
 - Cutaneous mycoses, 69
 - Subcutaneous mycoses, 71
 - Systemic mycoses, 73
 - Opportunistic mycoses, 75
- Viruses and diseases, 78
 - Human papilloma virus, 79
 - Other viral diseases, 80
- Infections/Bugs, 83
 - Vector-borne diseases, 83
 - Creatures in dermatology, 88

CONTACT AND PLANT DERMATITIS, 93

- Patch testing, 93
- Common contact allergens, 95
- Allergic vs. irritant contact dermatitis, 104
- Allergens – location specific, 105
- Features suggestive of specific irritant/toxin, 106
- Plants and Dermatoses, 106

TUMORS AND INFILTRATES, 109

- Cutaneous T Cell Lymphoma, 109
- Cutaneous B-cell lymphoma, 113
- Leukemia cutis, 113
- Monoclonal Gammopathies in Dermatology, 114
- Tumors and gene associations, 115
- For Melanoma, BCC, and SCC, see Skin Cancer, 221*

SYSTEMIC AND METABOLIC DISEASES, 117

Amyloidoses, 117

Histiocytosis, 119

Xanthomas, 124

Hyperlipoproteinemias, 125

Vitamin Deficiencies/Hypervitaminoses, 127

PEDIATRIC AND PREGNANCY DERMATOLOGY, 131

Vascular tumors and malformation, 131

Infantile Hemangioma (IH) Management, 132

Neonatal vesiculopustular eruptions, 137

Genodermatoses, 142

Chromosome abnormalities, 171

Disorders of cornification, 171

Disorders of connective tissue, 175

Ehlers–Danlos, 177

Collagen types, 178

Disorder of hair, nail, ectoderm, 179

Tumor syndromes, 185

Disorders of vascularization, 186

Disorders of metabolism, 189

Porphyrias, 191

Disorders of pigmentation, 193

Immunodeficiency syndromes, 196

Miscellaneous, 198

Dermatoses of pregnancy, 200

DERMOSCOPY AND DERMATOPATHOLOGY, 202

Dermoscopy, 202

Dermatopathology, 206

Histochemical staining, 206

Immunohistochemical staining, 207

Pathologic bodies, 210

Cysts, 214

Other derm path buzzwords, patterns, DDx, 215

Part 2 Surgical and Cosmetic Dermatology, 219

SURGICAL DERMATOLOGY, 221

Skin cancer, 221

Surgical margin guidelines, 221

Indication for Mohs micrographic surgery, 222

Melanoma, 223

Squamous cell carcinoma (SCC), 228

- Prophylactic antibiotics and antivirals, 230
 - Guideline for Prophylactic antibiotics, 230
 - Algorithm for antibiotic prophylaxis, 231
 - Guideline for prophylactic antivirals, 231
 - Antiseptic scrubs, 232
- Anesthetics, 234
 - Dose calculation, 234
 - Standard formula for buffered Lidocaine, 234
 - Tumescent anesthesia, 234
 - Topical anesthetic (see drug section pg. 316), 235
 - Adverse reaction to local anesthetics, 235
 - Local anesthetic, 236
- Nerve blocks, 237
- Surgical anatomy, 237
 - Anatomy of the face, 237
 - Danger zones in surgery, 242
 - Dermatomal distribution of sensory nerves, 244
 - Anatomy of the lower extremity venous system, 245
 - Anatomy of the nail, 246
- Cutaneous reconstruction, 247
 - Undermining depths in reconstruction, 248
 - Reconstruction algorithm: STAIRS, 248
- Sutures, 260
 - Absorbable, 260
 - Nonabsorbable, 261
 - Suture removal time, 262
- Electrosurgery, 262
- Wound healing, 262
- Wound dressing, 263

COSMETIC DERMATOLOGY, 264

- Laser, 264
 - Laser fundamentals, 264
 - Laser treatment of tattoo pigment, 266
 - Photoinduced eye injury, 267
 - Laser wavelength, depth of penetration and the electromagnetic spectrum, 268
 - Absorption spectra of major skin chromophores, 268
- Photodynamic therapy, 269
 - Photosensitizer properties and options, 269
 - PDT Protocol, 270
- UV spectrum, 271
 - UV spectrum and wavelengths, 271
 - UVB protection vs SPF, 272

- UV protection measurements, 272
- UV associations/specificities, 273
- Glogau wrinkle scale, 273
- Fitzpatrick skin type, 274
- Chemical peels, 274
 - Pre-peel consideration, 274
 - Peeling agents, 275
- Botulinum toxin, 277
- Injectable for adipolysis, 280
- Fillers, 281
 - Protocol for vascular occlusion from fillers, 288
- Venous disease treatment, 288
 - Vein treatment algorithm, 288
 - Sclerotherapy, 289
 - Preparing dilution of sclerosants, 290
 - CEAP classification for venous disease, 292
 - Venous clinical severity score, 292

Part 3 Drugs and Therapies, 293

- Medication Quick Reference, 295
 - Topical steroids classified by strength, 295
 - Nonsteroidals, 297
 - Commonly used drugs in dermatology, 297
- Systemic Medications, 302
 - Antimalarials, 302
 - Immunosuppressive agents, 303
 - Systemic retinoids, 306
 - Biologics, 307
- General Reference, 310
 - Metric measurements, 310
 - Dose calculations, 310
 - Topical medication dispensing and absorption, 310
 - Corticosteroid Dosage Equivalence, 311
- Acne – Topical, 311
 - Antibiotics/antimicrobial, 311
 - Keratolytics, 312
 - Retinoids, 313
 - Others, 313
- Acne – Oral, 314
 - Antibiotics, 314
 - Retinoids, 315
 - Others, 315
- Analgesics, 315
 - Anesthetics – topical (see also topical anesthetic pg. 235), 316

- Anesthetics – topical compounded, 316
- Antibiotics, 316
 - Topical/antiseptic, 316
 - Systemic, 317
 - Preoperative prophylaxis, see pg. 230
 - Postoperative skin infection, 319
 - Sensitivity, 321
 - Regimens, 322
 - STDs, 323
- Antifungals, 324
 - Topical, 324
 - Oral, 325
 - Antifungal regimens, 327
 - Candidal infection, 327
 - Pityrosporum folliculitis, 327
 - Onychomycosis, 327
 - Tinea versicolor (*Malassezia*), 328
 - Tinea capitis, 328
 - Tinea corporis, 328
 - Tinea pedis, 329
- Antiparasitics, 330
 - Scabies, 330
 - Lice, 330
- Antivirals, 331
 - HSV, 331
 - Herpes zoster/VZV, 333
 - Genital warts, 333
 - Verruca vulgaris, 334
 - Molluscum, 334
- Antihistamines, 334
 - Sedating, 335
 - Nonsedating, 335
 - H2-blockers, 335
- Antipruritic, 336
 - Topical, 336
 - Oral, 336
- Anxiolytics/Sedation, 338
 - Benzodiazepines, 338
 - Antihistamines, 339
- Bleaching Agents/Depigmenting Agents, 340
- Hair, 341
 - Alopecia – androgenic, 341
 - Alopecia – areata, 341
 - Hypertrichosis, 342
 - Hypotrichosis – eyelash, 342

- Hyperhidrosis, 342
- Psoriasis, 343
 - Topical agents, 343
 - Tar, 343
 - Anthralin/dithranol, 343
 - Systemic agents, 343 (see also Systemic Medications pg. 306)
- Rosacea, 344
 - Antibiotics/antimicrobial – topical, 344
 - Keratolytics, 344
 - Vasoconstrictor, 344
 - Other, 344
 - Antibiotics – systemic, 344
- Seborrheic Dermatitis, 345
- Skin Cancer – Topical and Oral Chemotherapy, 345
 - Actinic keratoses (AK), 345
 - Basal cell carcinoma (BCC), 346
 - CTCL, 346
 - Melanoma, 347
- Vasoactive/Antiplatelet Agents, 347
- Vitamins/Nutritional Supplements, 348
- Wound Care, 348
- Miscellaneous Meds, 348
- Cytochrome P-450 interactions, 349
- Pregnancy Categories of Commonly Used Dermatologic Agents, 350
- Common Dermatologic Drugs and Teratogenic Effects, 351
- Dermatologic Drugs Reportedly Associated with Contraceptive Failure, 352
- Drug Eruptions, 352
- Chemotherapeutic Agents and Skin Changes, 355
 - Antidote to extravasation of chemotherapeutic agents, 358
- UV Light Treatment, 359
 - UVA/UVB dosing, 359
 - NBUVB dosing, 359
 - PUVA, 359
- Toxic Epidermal Necrolysis (TEN) Protocol, 361
 - Diagnosis of TEN, 361
 - Triage algorithm for TEN patients, 362
 - Treatment for all TEN patients, 363
 - Appendix I American Burn Association Burn Center Referral Criteria 364
 - Appendix SCORTEN Score, 365
 - Appendix III IVIg, 365
 - Appendix IV Further Reading for TEN/SJS, 366

Index, 367

Color plate section can be found facing page 206

