Contents

Chapter 1: Dermatological Emergencies: General Considerations **1**

Arun C Inamadar

- *Introduction and Definition 1*
- *Dermatological Emergencies: Magnitude of the Problem 2*
- *Classification 4*
- *Approach to a Patient with Dermatological Emergency 4*
- *History 6*
- *Acute Skin Failure: An Overview 8*
- *General Principles of Management of Dermatological Emergencies 11*

Chapter 2: Dermatological Emergencies **13**

Aparna Palit

- *Erythroderma 15*
- *Psoriasis 19*
- *Severe Cutaneous Adverse Drug Reactions 22*
- *Anaphylaxis 35*
- *Vascular Disorders 38*
- *Collagen Vascular Disorders 55*
- *Complicated Vascular Tumors 57*
- *Vesiculobullous Disorders 60*
- *Infections 67*
- *Bacterial Toxin Mediated Illnesses 82*
- *Reactions in Leprosy 89*
- *Bites/Stings/Venom 93*
- *Metabolic Disorders 100*
- *Drug-Induced Cutaneous Necrosis 104*
- *Acute Graft Versus Host Disease 109*

Chapter 3: Fluid, Electrolyte and Nutrition Therapy in Dermatological Emergencies **114**

Ragunatha S, Kumar GV

- *Body Fluid Compartments 115*
- *Fluid, Electrolyte Disturbances and Protein Loss in Acute Skin Failure 115*
- *Fluid, Electrolyte and Nutritional Therapy in Dermatological Emergencies 116*

- *Fluid Resuscitation in Patients with Ten* 117
- *Fluid and Electrolyte Therapy in Erythroderma* 120
- *Nutritional Supplementation in Patients with Dermatological Emergencies* 121

Chapter 4: Procedures and Techniques in Dermatological Emergencies **125**

Nazeer Ahmed K

- *Vital Signs and Monitoring* 125
- *Universal Precautions* 126
- *Procedures and Maneuvers* 127
- *Vascular Access* 128
- *Airway Access/Maintenance* 136
- *Nasogastric Access* 143
- *Transurethral Catheterization* 146
- *Cardiopulmonary Resuscitation* 149
- *Acknowledgement* 154

Chapter 5: Diagnostic Procedures in Critical Care Set Up **156**

BV Peerapur

- *Blood Culture* 157
- *Pus Sample Collection* 158
- *Specimen Collection from Skin* 158
- *Specimen Collection from Throat and Mouth* 159
- *Specimen Collection from Rectum* 160
- *Bedside Estimation of Bleeding Time and Clotting Time* 160

Chapter 6: Nursing Care in Dermatological Emergencies **163**

Vineet Kaur

- *Skin Care Nursing in Non-Dermatological Critically Ill Patients* 164
- *Nursing Care of ohe Skin in Dermatological Emergencies* 169

Chapter 7: Dermatology Intensive Care Unit (DICU) **177**

Arun C Inamadar

- *Concept of Intensive Care and Intensive Care Unit* 177
- *Admission Criteria for DICU* 178
- *Multidisciplinary Approach in Patients Admitted in DICU* 179
- *How to Set Up DICU?* 179
- *Instruments and Equipments* 180
- *Emergency Drugs* 183
- *Skills to be Acquired by Dermatologists* 184

Chapter 8: Drugs Used in Dermatological Emergencies 186

Arun C Inamadar, Abhay Mani Martin

- *Classification 186*
- *Adrenaline 187*
- *Dopamine 189*
- *Dobutamine 189*
- *Frusemide 189*
- *Atropine 190*
- *Colloids and Crystalloids 190*
- *Sodium Bicarbonate 192*
- *Calcium Gluconate 193*
- *Oxygen Therapy 194*
- *Corticosteroids 194*
- *Cyclosporine 198*
- *Methotrexate 199*
- *Cyclophosphamide 202*
- *Vincristine 204*

Chapter 9: Rescue Therapy in Dermatology 206

Arun C Inamadar, Murlidhar Rajagopalan

- *Cyclosporine as Rescue Therapy 207*
- *Infliximab as Rescue Therapy 208*
- *Corticosteroid as Rescue Therapy 209*
- *Rescue Therapy in Methotrexate Toxicity 209*
- *Rescue Therapy in Dapsone Induced Methemoglobinemia 211*
- *Rescue Therapy in Cyclophosphamide Induced Bladder Toxicity 212*
- *Other Indications of Rescue Therapy in Dermatology 212*

Chapter 10: Dermatological Drug Therapy in Challenging Clinical Scenarios 214

Ragunatha S

- *Dermatological Drug Therapy in Patients with Renal Impairment 215*
- *Dermatological Drug Therapy in Patients with Hepatic Impairment 219*

Chapter 11: Drugs in Pregnancy and Lactation 229

Laxmi Nair

- *Physiological Changes in Pregnancy and their Effect on Pharmacokinetics 230*
- *Drug Dosing in Pregnancy 232*
- *Prenatal Development and Relationship with Maternal Drug Intake 232*

- *Pharmacokinetics of Drugs Ingested by the Mother in the Fetus 233*
- *Drug Categorization During Pregnancy 234*
- *Drug Prescription in Lactating Women 236*
- *Monitoring and Management Principles 237*

Appendix 243

Index 253