Contents

Section 1: Diagnostic Tools *1–14*

1. **Semmes–Weinstein Monofilament** 3
2. **Biothesiometer (VPT)** 4
3. **Ankle Brachial Pressure Index or Ankle Brachial Index** 6
4. **Infrared Thermometer** 8
5. **Transcutaneous Oxygen Pressure** 10
6. **Hand-held Doppler** 12
7. **Harris Mat** 13

Section 2: Treatment Modalities *15–32*

8. **Callus Shaving** 17
9. **Samadhan System of Offloading** 19
10. **Total Contact Cast** 21
11. **Modified Posterior Slab** 23
12. **Negative Pressure Wound Therapy or Vacuum-assisted Closure** 24
13. **Hyperbaric Oxygen Therapy** 26
14. **Platelet-rich Plasma** 28
    - Case Study *29*
15. **Four-layer Compression Bandage** 31

Section 3: Neuropathic Unilateral Ulcers *33–90*

16. **Great Toe** 36
    - Case 1 : Neuropathic Great Toe Ulcer Treated with removable TCC *36*
    - Case 2 : Neuropathic Great Toe Ulcer *38*
    - Case 3 : Neuropathic Great Toe Ulcer on Amputed Stump *39*
    - Case 4 : Great Toe Ulcer due to Increased Plantar Pressure *41*
    - Case 5 : Neuropathic Great Toe Ulcer with Foot Deformity *43*
    - Case 6 : Osteomyelitis—Surgical Management *45*
    - Case 7 : Great Toe Ulcer Treated with Modified Posterior Slab *46*

~Prelims.indd 17 04-10-2021 13:46:32

- Case 8 : Great Toe Treated with Total Contact Cast with Window *48*
- Case 9 : Transitional Offloading *50*
- Case 10 : SK Offloading *52*

17. Metatarsal Head **54**
- Case 1 : Neuropathic Third Metatarsal Head Ulcer *54*
- Case 2 : SK Offloading and Modified Footwear *56*
- Case 3 : Modified Posterior Slab *58*

18. Heel **60**
- Case 1 : Neuropathic Ulcer in Heel *60*
- Case 2 : Neuropathic Heel Ulcer *62*
- Case 3 : Neuropathic Heel Ulcer Treated with Total Contact Cast *64*
- Case 4 : Neuropathic Heel Ulcer Treated with Total Contact Cast with Window *66*
- Case 5 : Neuropathic Ulcer in Heel Treated with Total Contact Cast with Window *68*
- Case 6 : Metatarsal Head Ulcer with Maggots *70*
- Case 7 : Heel Ulcer (Non Healing) *72*
- Case 8 : Heel Ulcer with Osteomyelitis *74*
- Case 9 : Heel Ulcer Treated with Modified Window Walking Cast *76*

19. Other Location **78**
- Case 1 : Rat Bite *78*
- Case 2 : Neuropathic Renal Foot with Toe Deformity *80*
- Case 3 : Diabetic Foot Ulcer on Dorsum of Foot with Interdigital Mycosis *83*
- Case 4 : Blister on Dorsum of Foot *85*
- Case 5 : Ulcer on Dorsum of Foot Following Shoe Bite *87*
- Case 6 : Leg Ulcer with Cellulitis *89*

Section 4: Neuropathic Bilateral Ulcers *91–108*

20. Great Toe **93**
- Case 1 : Bilateral Great Toe Ulcer *93*
- Case 2 : Bilateral Great Toe Ulcer with Osteomyelitis *96*
- Case 3 : Bilateral Diabetic Foot Ulcer with Nail Pathology *98*
- Case 4 : Hurricane Burn *100*

21. Metatarsal Head **101**
- Case 1 : Neuropathic Bilateral Plantar Surface Ulcers on First Metatarsal Head *101*
- Case 2 : Neuropathic Bilateral First Metatarsal Head Ulcer *104*

22. Other Location **106**
- Case 1 : Bilateral Leg and Foot Ulcers Following Chemical Burn Injury *106*

Section 5: Ischemic Cases *109–134*

23. Peripheral Arterial Disease **111**
- Case 1 : Ischemic Infected Foot *111*
- Case 2 : Neuroischemic Ulcer *114*
- Case 3 : Ischemic Ulcer due to Application of Compression Bandage *116*
- Case 4 : Ischemic Tendo-Achilles Ulcer *118*
- Case 5 : Ischemic Ulcer Treated with PTA *120*
- Case 6 : Ischemic Ulcer in a Case of CAD *123*
- Case 7 : Tram Car Injury *125*
- Case 8 : Ischemic Case *127*
- Case 9 : Great Toe Neuroischemic Ulcer *130*
- Case 10 : Ischemic Heel Ulcer *132*

Section 6: Osteomyelitis *135–156*

24. Medical Management of Osteomyelitis **137**
- Case 1 : Bilateral Neuropathic Great Toe Ulcer with Osteomyelitis *137*
- Case 2 : Bilateral Great Toe Ulcers with Osteomyelitis *140*
- Case 3 : Diabetic Foot Ulcer on Dorsum of Fifth Toe with Osteomyelitis *143*

25. Surgical Management of Osteomyelitis **145**
- Case 1 : Neuropathic Ulcer with Osteomyelitis *145*
- Case 2 : Fifth Toe Ulcer with Osteomyelitis *147*
- Case 3 : Infected Great Toe Ulcer with Osteomyelitis *150*
- Case 4 : Great Toe Ulcer on Dorsum with Osteomyelitis *152*
- Case 5 : Diabetic Foot Infection with Osteomyelitis *154*

Section 7: Charcot's Foot *157–190*

26. Unilateral, Bilateral, and Charcot's Foot in Renal Diseases (CKD) **161**
- Case 1 : Charcot's Foot: Right *161*
- Case 2 : Charcot's Foot: Left *164*
- Case 3 : Bilateral Charcot's Foot with Midfoot Ulcer in Left *166*
- Case 4 : Management of Charcot's Foot *168*
- Case 5 : Charcot's Foot *170*
- Case 6 : Management of Charcot's Foot in Stage IV CKD *173*
- Case 7 : Charcot's Foot with Deformity *175*
- Case 8 : Charcot's Joint *178*
- Case 9 : Acute Charcot with Osteomyelitis *180*
- Case 10 : Charcot Foot: Left with Midfoot Ulcer on Dorsum *182*

- Case 11 : Charcot Exostectomy *185*
- Case 12 : Surgical Management (Exostectomy) of Charcot Foot *187*

Section 8: Infected Diabetic Foot *191–232*

27. Mild, Moderate, and Severe Infections **194**
- Case 1 : Neuropathic Ulcer with Infection *194*
- Case 2 : Neuropathic Infected Foot *196*
- Case 3 : Severe Diabetic Foot Infection *198*
- Case 4 : Diabetic Foot Infection: Limb-threatening *200*
- Case 5 : Ischemic Infected Foot *202*
- Case 6 : Severe Diabetic Foot Infection *202*
- Case 7 : Multidisciplinary Management of a Complicated Infected Diabetic Foot *205*
- Case 8 : Ulcer After Hot Compression *208*
- Case 9 : Severe Diabetic Foot Infection *210*
- Case 10 : Limb-threatening Diabetic Foot Infection *212*
- Case 11 : Gangrene of 5th Toe: Amputated in OPD *214*
- Case 12 : Use of Advanced Modality in Severe Diabetic Foot Infection *216*
- Case 13 : Thermal Injury Leading to Severe Diabetic Foot Infection *218*
- Case 14 : Transitional Offloading in Plantar Surface Diabetic Foot Ulcer *220*
- Case 15 : Limb- to Life-threatening Diabetic Foot Infection *222*
- Case 16 : Moderate Diabetic Foot Infection with Ulceration *225*
- Case 17 : Filariasis with Diabetic Foot Infection *227*
- Case 18 : Bilateral Diabetic Foot Ulcer with Moderate Infection *229*

Section 9: Renal Foot *233–240*

28. Neuropathic Renal Foot **235**
- Case 1 : Neuropathic Renal Foot *235*
- Case 2 : Diabetic Renal Foot *238*

Section 10: Diabetic Hand Wounds: Not Uncommon *241–250*

29. Diabetic Hand Wounds: An Overlooked and Neglected Phenomenon **243**
- Case 1 : Thumb Injury in a Patient with Type 1 Diabetes Mellitus *244*
- Case 2 : Infection in Thumb Following Injury *245*
- Case 3 : Injury to Index Finger while Cutting Nail *246*
- Case 4 : Blister Over Palm of Right Hand *247*
- Case 5 : Infection in Forearm Following Trauma *248*
- Case 6 : Infection in Right Hand *249*

Section 11: Footwear Injury *251–254*

30. Footwear Injury **253**

Section 12: Foreign Body Injury *255–266*

31. Foreign Body Injury **257**
- Case 1 : Foreign Body Injury Caused by Barefoot Walking *257*
- Case 2 : Glass Prick in a Neuropathic Foot *259*
- Case 3 : Injury to an Insensate Diabetic Foot *262*
- Case 4 : Glass Piece Embedded in an Insensate Foot *265*

Section 13: Iceberg Phenomenon *267–274*

32. Iceberg Phenomenon: More than What Meets the Eye **269**
- Case 1 : Fungal Infection Progressing to Limb-threatening Infection *270*
- Case 2 : Blister over Dorsum Progressing to Limb-threatening Infection *272*

Section 14: Major Lower Limb Amputations *275–288*

33. Above Knee and Below Knee **277**
- Case 1 : Forefoot Amputation Following Foreign Body Prick *277*
- Case 2 : PAD Leading to Major Amputation *279*
- Case 3 : Diffuse PAD Leading to Major Amputation *282*
- Case 4 : PAD with Infected Heel *284*
- Case 5 : Diabetic Foot Infection: Limb- to Life-threatening *286*

Section 15: Venous Stasis Ulcers *289–298*

34. Venous Ulcers **291**
- Case 1 : Nonhealing Ulcer in Ankle Joint Area *292*
- Case 2 : Right Leg Ulcer *293*
- Case 3 : Noninfected Right Leg Ulcer *296*

Bibliography **299**

Index **301**