

---

---

# Contents

<i>List of Contributors</i>	xiii
<i>Preface</i>	xix
<i>Introduction</i>	xxiii
1. Diabetes Mellitus and Its Complications: A Global Problem <i>by Aziz Nather and Pang Hung Wu</i>	1
2. Socio-Economic Factors of Diabetics with and without Foot Problems in Singapore <i>by Aziz Nather, Limin Yan, Xinyi Li, Siok Bee Chionh, Yiong Huak Chan and Pang Hung Wu</i>	15
3. Team Approach for Diabetic Foot Problems — The Singapore Experience <i>by Aziz Nather, You Min Luah, Siok Bee Chionh, Paul Ananth Tambyah, Adam Jorgensen, Bei Yun Cui and Chris C. W. Lee</i>	29
4. Team Approach for Diabetic Foot Problems — The Hong Kong Experience <i>by Joseph Wing-Cheung Wong and Hon-Bong Leung</i>	41
5. Anatomy of the Foot <i>by Marcus Zhixing Ling, Christine Hui Jin Ong, Zameer Aziz and Aziz Nather</i>	51

6. Biomechanics of the Foot 67  
*by Bryan Hsi Ming Tan, Aziz Nather  
and Vikram David*
7. Foot at Risk 77  
*by Adriaan Erasmus and Adam Jorgensen*
8. Classification Systems 87  
*by Adriaan Erasmus*
9. Clinical Examination of a Diabetic Foot Problem 107  
*by Aziz Nather, Pang Hung Wu and Zameer Aziz*
10. Assessment of Peripheral Neuropathy 131  
*by Tiffany Tsao and Aziz Nather*
11. Assessment of Diabetic Vasculopathy 151  
*by Adriaan Erasmus and Aziz Nather*
12. Foot Screening for Diabetics 169  
*by Aziz Nather, Janice Chien Chi Cheng,  
G. Parimala Devi, Siok Bee Chionh  
and Adriaan Erasmus*
13. Statistics for Clinical Research 179  
*by Yiong Huak Chan*
14. Management of Diabetes 191  
*by Siok Bee Chionh*
15. Diabetic Foot Infections — Epidemiology  
and Predictive Factors for Limb Loss 205  
*by Aziz Nather, Zameer Aziz,  
Paul Ananth Tambyah and Yiong Huak Chan*

16. Antibiotics in the Management of Diabetic Foot Infections 221  
*by Catherine Ong and Paul Ananth Tambyah*
17. Necrotising Fasciitis 239  
*by Aziz Nather and Tony Setiobudi*
18. Outpatient Parenteral Antibiotic Therapy and the Diabetic Foot 249  
*by Arlene Chua and Dale Fisher*
19. Predictive Factors for Limb Salvage — The Singapore Experience 269  
*by Aziz Nather, Xinyi Li, Siok Bee Chionh, Yiong Huak Chan and Clarabelle B. T. Lin*
20. Predictive Factors for Limb Salvage: The Hong Kong Experience 281  
*by Hon-Bong Leung and Joseph Wing-Cheung Wong*
21. Lower Extremity Amputation Prevention Programme (LEAP) — The Singapore Experience 289  
*by Kok Hoong Chia, Daniel Wong and Alex Chao*
22. Major Amputations in Diabetics 299  
*by Aziz Nather and Gurpal Singh*
23. Distal Limb Amputations in Diabetics 325  
*by Gurpal Singh and Aziz Nather*
24. Rehabilitation Following Major Lower Limb Amputation 341  
*by Andrew Kean Seng Lim and Aziz Nather*
25. Phantom Pain and Its Management 351  
*by Widjajalaksmi Kusumaningsih*

26. Charcot Joint Disease — Epidemiology, Clinical Presentation and Classification Systems 365  
*by Tony Setiobudi, Aziz Nather, Rajesh Vasant Asurlekar and G. Parimala Devi*
27. Management and Complications of Charcot Joint Disease 381  
*by Aziz Nather and Tony Setiobudi*
28. Principles of Wound Healing 395  
*by Mark E. Puhaindran*
29. Types of Dressings for Diabetic Foot Ulcers 403  
*by Tiffany Tsao and Aziz Nather*
30. New Generation Dressings for Diabetic Wounds 417  
*by Aziz Nather, Tiffany Tsao and Adriaan Erasmus*
31. Role of Anodyne Therapy for Healing of Chronic Diabetic Foot Ulcers 447  
*by Aziz Nather, Eileen Y. Sim, Janice Chien Chi Cheng, Shu Hui Neo and Jocelyn Li Ling Chew*
32. Role of Ultrasonic Debridement for Healing of Chronic Diabetic Foot Ulcers 459  
*by Adriaan Erasmus, Aziz Nather and Ajay Nambiar*
33. Role of Extracorporeal Shockwave Therapy (ESWT) for Healing of Chronic Diabetic Foot Ulcers 475  
*by Aziz Nather and Adriaan Erasmus*
34. Vacuum Assisted Closure in the Treatment of Diabetic Foot Ulcers 485  
*by Yeong-Pin Peng*

35.	Diabetic Foot Care <i>by Tiffany Tsao</i>	503
36.	Diabetic Footwear: Current Status and Future Directions <i>by Aziz Nather and Gurpal Singh</i>	527
37.	Industry Survey for Footwear: What is on the Market at the Moment <i>by Adam Jorgensen</i>	541
38.	Footwear Habits in Diabetics With and Without Diabetic Foot Problems — The Singapore Experience <i>by Aziz Nather, Gurpal Singh, Xin Ni Koo, Zameer Aziz and Kathryn Stone</i>	547
39.	Footwear: The Hong Kong Experience <i>by Hon-Bong Leung and Joseph Wing-Cheung Wong</i>	557
	Index	567