Contents

Foreword ix
Preface xi
Contributors xii

1 Epidemiology and Economic Impact of Foot Ulcers 1
    Joseph W. LeMaster and Gayle E. Reiber

2 The Epidemiology of Amputations and the Influence of Ethnicity 17
    Nish Chaturvedi

3 Diabetic Neuropathy 30
    Solomon Tesfaye

4 Microcirculation and Diabetic Foot 41
    Singhan T.M. Krishnan and Gerry Rayman

5 The Pathway to Ulceration: Aetiopathogenesis 51
    Andrew J.M. Boulton

6 What the Practising Clinician Should Know About Foot Biomechanics 68
    Peter R. Cavanagh and Jan S. Ulbrecht

7 The Description and Classification of Diabetic Foot Lesions: Systems for Clinical Care, for Research and for Audit 92
    William J. Jeffcoate and Fran L. Game

8 Providing a Diabetes Foot Care Service: Lessons from the Veterans Health Affairs in the United States 108
    Jeffrey M. Robbins

9 Providing a Diabetic Foot Care Service: The Exeter Integrated Diabetic Foot Project 116
    Mollie Donohoe, Roy Powell and John Tooke

10 The Diabetic Foot in Primary Care: A UK Perspective 121
    Roger Gadsby
CONTENTS

11 Psychological and Behavioural Issues in Diabetic Foot Ulceration 132
   Loretta Vileikyte

12 Education in the Management of the Foot in Diabetes 143
   Kate Radford, Susan Chipchase and William Jeffcoate

13 Infection of the Foot in Persons with Diabetes: Epidemiology,
   Pathophysiology, Microbiology, Clinical Presentation and Approach
   to Therapy 159
   Benjamin A. Lipsky and Anthony R. Berendt

14 Challenges in the Infected Diabetic Foot: Osteomyelitis and
   Methicillin-Resistant Staphylococcus aureus 169
   Anthony R. Berendt and Benjamin A. Lipsky

15 Dressings: Is There an Evidence Base? 186
   Ann Knowles

16 New and Alternative Treatments for the Diabetic Foot: Stem Cells and
   Gene Transfer 198
   Jeffrey M. Davidson

17 An Introduction to Larval Therapy 207
   Stephen Thomas

18 New and Alternative Treatments for Diabetic Foot Ulcers: Hormones and
   Growth Factors 214
   Matthew J. Hardman and Gillian S. Ashcroft

19 Radiology and Magnetic Resonance Imaging of the Diabetic Foot 222
   Richard W. Whitehouse

20 Interventional Radiology in the Diabetic Foot 238
   Amman Bolia

21 Peripheral Vascular Disease and Reconstruction 250
   Malcolm Simms

22 Charcot Foot: What’s New in Pathogenesis and Medical Management? 265
   Edward B. Jude

23 The Operative Treatment of Charcot Neuroarthropathy of the
   Foot and Ankle 274
   Michael L. Salamon and Charles L. Saltzman

24 Surgery for Ulceration and Infection in the Diabetic Foot 285
   James W. Brodsky
CONTENTS

40  Algorithms for Assessing Risks for Ulcerations and Amputations  431
    David G. Armstrong, Stephanie C. Wu and Ryan C. Crews

Conclusions  440
    Andrew J.M. Boulton, Peter R. Cavanagh and Gerry Rayman

Index  443