

# Contents

## VII List of Contributors

### IX Foreword

Kidd, E. (London)

### X Preface

Schwendicke, F. (Berlin); Frencken, J. (Nijmegen); Innes, N. (Dundee)

## The Philosophical Evolution

### 1 Pathophysiology of Dental Caries

Conrads, G. (Aachen); About, I. (Marseille)

### 11 Caries Epidemiology and Its Challenges

Frencken, J. (Nijmegen)

### 24 Carious Lesion Diagnosis: Methods, Problems, Thresholds

Neuhaus, K.W.; Lussi, A. (Bern)

### 32 Removing or Controlling? How Caries Management Impacts on the Lifetime of Teeth

Schwendicke, F. (Berlin); Lamont, T.; Innes, N. (Dundee)

### 42 Restoring the Carious Lesion

Göstemeyer, G.; Schwendicke, F.; Blunck, U. (Berlin)

## Principles and Options for Treating Cavitated Lesions

### 56 Removing Carious Tissue: Why and How?

Schwendicke, F. (Berlin)

### 68 Stepwise Excavation

Bjørndal, L. (Copenhagen)

### 82 Selective Removal of Carious Tissue

Ricketts, D.; Innes, N. (Dundee); Schwendicke, F. (Berlin)

### 92 Atraumatic Restorative Treatment: Restorative Component

Leal, S. (Brasília); Bonifacio, C. (Amsterdam); Raggio, D. (São Paulo); Frencken, J. (Nijmegen)

### 103 Sealing Carious Tissue Using Resin and Glass-Ionomer Cements

Fontana, M. (Ann Arbor, MI); Innes, N. (Dundee)

### 113 Sealing Carious Tissue in Primary Teeth Using Crowns: The Hall Technique

Santamaría, R.M. (Greifswald); Innes, N. (Dundee)

## 124 **No Removal and Inactivation of Carious Tissue: Non-Restorative Cavity Control**

van Strijp, G.; van Loveren, C. (Amsterdam)

### Making the Evolution Happen

## 137 **Evidence-Based Deep Carious Lesion Management: From Concept to Application in Everyday Clinical Practice**

Doméjean, S. (Clermont-Ferrand); Grosogeat, B. (Lyon)

## 146 **The Problem: Relevance, Quality, and Homogeneity of Trial Designs, Outcomes, and Reporting**

Göstemeyer, G. (Berlin); Levey, C. (Dundee)

### Recommendations

## 155 **An Agreed Terminology for Carious Tissue Removal**

Innes, N. (Dundee); Schwendicke, F. (Berlin); Frencken, J. (Nijmegen)

## 162 **Clinical Recommendations on Carious Tissue Removal in Cavitated Lesions**

Schwendicke, F. (Berlin); Frencken, J. (Nijmegen); Innes, N. (Dundee)

## 167 **Caries Excavation: Evidence Gaps**

Innes, N.; Robertson, M. (Dundee); Schwendicke, F. (Berlin)

## 172 **Author Index**

## 173 **Subject Index**