

Contents

Foreword	v
Preface	vii
List of Corresponding Authors	xv
1. Anatomy and Physiology of the Inner Ear <i>Joe Walter Kutz Jr., MD, FACS; Brandon Isaacson, MD, FACS; Viraj Shah, MD</i>	1
2. Etiological Aspects of Hearing Loss <i>Maria-Pia Tuset, MD, MSc; Camron Davies, MD; Alexa Denton, MD; Mona Roshan, MSc; Jaimee N. Cooper, BS; Adrien A. Eshraghi, MD, MSc, FACS</i>	15
3. Prevention of Hearing Loss <i>Caroline Casey, BA; Nina Gallo, BS; Michael D. Seidman, MD, FACS</i>	43
4. Genetic Evaluation for Hearing Loss: Implications for Management <i>A. Eliot Shearer, MD, PhD</i>	57
5. Management of Conductive and/or Mixed Hearing Loss <i>Maria-Pia Tuset, MD, MSc; Adrien A. Eshraghi, MD MSc, FACS; Mary Daval, MD; Denis Ayache, MD</i>	65
6. Current Medical Treatments for Sensorineural Hearing Loss <i>Sujana S. Chandrasekhar, MD, FACS</i>	87
7. Assessment and Management of Tinnitus and Hyperacusis <i>Ali A. Danesh, PhD; Ava King, BSc; Adrien A. Eshraghi, MD, MSc, FACS</i>	99

8. Novel Immunologic-Related Approaches to Treating Sensorineural Hearing Loss 125
Ilana Yellin, MD; Andrea Vambutas, MD
 9. Hearing Aids and Implantable Bone Conduction Devices 135
Vivian F. Kaul, MD; Bryce P. G. Dzubara, BS; Oliver F. Adunka, MD, MBA
 10. Cochlear Implants 149
Adrien A. Eshraghi, MD, MSc, FACS; Maria-Pia Tuset, MD, MSc; Jake Langlie, MD; Thais Toledo, AuD; Meredith Holcomb, AuD; Mona Roshan, MS; Fred F. Telischi, MD, MEE, FACS
 11. Management of Single-Sided Deafness 177
John J. Sheets, AuD; Hillary A. Snapp, PhD, AuD
 12. Recent Advancements in Developing Drug Therapy for Auditory Disorders 189
Alexa Denton, MD; Dimitri A. Godur, BS; Jaimee N. Cooper, BS; Jeenu Mittal, MSc; Adamyia Aggarwal, BS; Keelin McKenna, BS; Soumil Prasad, BS; Devin J. Kennedy, BS; Moeed Moosa, BS; Adrien A Eshraghi, MD, MSc, FACS; Rahul Mittal, PhD
 13. Progress and Challenges for Gene Therapy for Hearing and Balance Disorders 201
Aziz El-Amraoui, PhD
 14. Robotic Ear Surgery 221
C. Cooper Munhall, MD; Katherine E. Riojas, PhD; Robert F. Labadie, MD, PhD
 15. Advocating One's Rights as a Child or Adult With Hearing Loss 231
Donna L. Sorkin, MA
- Glossary* 239
Index 249