
Contents

Video Contents	vii
Foreword by James Jerger for the Third Edition	ix
Foreword by Marion Downs for the First and Second Edition	x
Preface	xi
Acknowledgments	xiii
Contributors	xv
Part I: Hearing Loss: Essential Information	1
1 Why Hearing Is Important in Children	3
<i>Carol Flexer, Jane R. Madell, Jace Wolfe, and Erin C. Schafer</i>	
2 Hearing Disorders in Children	17
<i>Brad A. Stach and Virginia Ramachandran</i>	
3 Genetics of Hearing Loss	27
<i>Kristin E. Gravel, Aparna Rao, Joan Steyermark, and Lisa A. Schimmenti</i>	
4 Medical Management of Hearing Loss in Children	41
<i>Brian A. Walker, David L. Horn, and Jay T. Rubinstein</i>	
Part II: Diagnosing Hearing Disorders in Infants and Children	55
5 Newborn Hearing Screening	57
<i>Karl R. White and Karen Muñoz</i>	
6 Hearing Test Protocols for Children	65
<i>Jane R. Madell, Carol Flexer, Erin C. Schafer, and Jace Wolfe</i>	
7 Behavioral Evaluation of Hearing in Infants and Children	75
<i>Jane R. Madell</i>	
8 Evaluation of Hearing in Children with Special Needs	91
<i>Jane R. Madell and Erin C. Schafer</i>	
9 Evaluation of Speech Perception in Infants and Children	97
<i>Jane R. Madell and Erin C. Schafer</i>	
10 Middle Ear Measurement in Infants and Children	109
<i>Chris A. Sanford and M. Patrick Feeney</i>	
11 Otoacoustic Emissions: Applications for Pediatric Audiology	119
<i>Sriram Boothalingam, Uzma Shaheen Wilson, and Sumitrajit (Sumit) Dhar</i>	
12 The Role of the Audiology Assistant in Assessing Hearing in Children	131
<i>Jane R. Madell</i>	
13 Auditory Evoked Response Testing in Children	135
<i>Guy Lightfoot and Siobhán Brennan</i>	
14 Clinical Measurement and Application of Cortical Auditory Evoked Responses	145
<i>James W. Hall III, Zeina Zayat, and Maryam Aghamolaei</i>	
15 Auditory Neurophysiology of Reading Impairment: Theory and Management	163
<i>Nina Kraus and Travis White-Schwoch</i>	
16 Assessment, Treatment, and Management of Auditory Processing Disorders in Children	173
<i>Gail M. Whitelaw</i>	
17 Evaluation and Management of Vestibular Function in Infants and Children with Hearing Loss	189
<i>Richard E. Gans</i>	

18 Interpreting Audiologic Test Results and Using the Test Information to Plan Management	197
<i>Jane R. Madell and Carol Flexer</i>	
Part III: Hearing Access Technologies for Infants and Children	205
19 The Acoustic Speech Signal	207
<i>Arthur Boothroyd</i>	
20 Hearing Aids for Infants, Children, and Adolescents	215
<i>Andrea Pittman and Kathryn Laudin Beauchaine</i>	
21 Osseointegrated Implants for Children	225
<i>Lisa Vaughan Christensen</i>	
22 Considerations for Pediatric Cochlear Implantation	235
<i>Jace Wolfe and Erin C. Schafer</i>	
23 Acoustic Accessibility in the Classroom and Beyond	249
<i>Joseph Smaldino and Carol Flexer</i>	
24 Remote Microphone Technologies	257
<i>Erin C. Schafer and Jace Wolfe</i>	
25 Red Flags: Identifying and Managing Barriers to the Child's Optimal Auditory Development	267
<i>Jane R. Madell, Joan G. Hewitt, and Sylvia Rotfleisch</i>	
Part IV: Educational and Clinical Management of Hearing Loss in Children	277
26 Collaborative Team Management of Children with Hearing Loss	279
<i>Jane R. Madell and Carol Flexer</i>	
27 Communication Approaches for Managing Hearing Loss in Infants and Children	287
<i>Carol Flexer, Jane R. Madell, Jace Wolfe, and Erin C. Schafer</i>	
28 The Importance of Early Intervention for Infants and Children with Hearing Loss	293
<i>Teresa Y. C. Ching, Vicky W. Zhang, and Sanna Y. L. Hou</i>	
29 Speech/Language/Auditory Management of Infants and Children with Hearing Loss	305
<i>Elizabeth Ying</i>	
30 Educational Placement Options for School-Aged Children with Hearing Loss	315
<i>Carrie L. Spangler, Erin C. Schafer, and Leslie Allen</i>	
31 Education and Access Laws for Children with Hearing Loss	321
<i>Donna L. Sorkin</i>	
32 Screening, Assessment, and Management of Auditory Disorders in School-Aged Children	335
<i>Cheryl DeConde Johnson</i>	
33 Managing Infants and Children with Auditory Neuropathy Spectrum Disorder	347
<i>Kirsty Gardner-Berry, Sanna Y. L. Hou, and Teresa Y. C. Ching</i>	
34 Working with Multicultural Families of Young Children with Hearing Loss	357
<i>Ellen A. Rhoades</i>	
35 Counseling and Collaboration with Parents of Children with Hearing Loss	365
<i>Jackson Roush and Garima Kamo</i>	
36 Empowering Teens with Hearing Loss	373
<i>Carrie L. Spangler and Gail M. Whitelaw</i>	
37 Advice for Audiologists from Parents	383
<i>Parents, Jane R. Madell, Carol Flexer, Erin C. Schafer, Jace Wolfe, and Parents</i>	
Index	399

Video Contents

- 7 Behavioral Evaluation of Hearing in Infants and Children..... 75**
 - Video 7.1 An Introduction to Testing Techniques with Jane R. Madell, PhD..... 76**
 - Video 7.2 Introduction to Behavioral Observation Audiometry 81**
 - Video 7.3 Testing in Behavioral Observation Audiometry..... 81**
 - Video 7.4 Behavioral Observation Audiometry without Audio Commentary..... 81**
 - Video 7.5 Introduction to Visual Reinforcement Audiometry..... 83**
 - Video 7.6 Testing in Visual Reinforcement Audiometry..... 83**
 - Video 7.7 Introduction to Conditioned Play Audiometry 85**
 - Video 7.8 Testing in Conditioned Play Audiometry 85**

- 9 Evaluation of Speech Perception in Infants and Children..... 97**
 - Video 9.1 Introduction to Speech Perception Testing..... 98**
 - Video 9.2 SAT Testing..... 99**
 - Video 9.3 SRT Testing 100**
 - Video 9.4 Crisp Testing..... 100, 102**
 - Video 9.5 Closed Set Speech Perception Testing..... 103**
 - Video 9.6 Open Set Speech Perception Testing 103**

- 22 Considerations for Pediatric Cochlear Implantation 235**
 - Video 22.1 Cochlear Implant Surgery with Dr. George Alexiades Special Features..... 241**