Foreword xi
About the Editors xiii

PART I
INTRODUCTION

Chapter 1
Evidence-Based Practices in Autism: Where We Started 3
Brian Reichow and Fred R. Volkmar

Where We Started 4
What Is Evidence-Based Practice? 8
Previous Definitions of Evidence-Based Practice Applied to Research in Autism 10
Conclusion 17

Chapter 2
Development, Procedures, and Application of the Evaluative Method for Determining Evidence-Based Practices in Autism 25
Brian Reichow

Background 25
Research Report Rigor 26
Research Report Strength Ratings 30
Criteria for Levels of EBP 31
Application of the EBP Status Formula and EBP Criteria 33
Discussion 35
Appendix A: Rating Form for Studies Using Group Research Design Studies 38
Appendix B: Rating Form for Studies Using Single Subject Experimental Designs 38
Appendix C: EBP Status Worksheet 39
Chapter 3  
On the Reliability and Accuracy of the Evaluative Method for Identifying Evidence-Based Practices in Autism  
Domenic V. Cicchetti

Introduction  41  
The Kappa Statistic Defined  42  
Kappa Paradoxes  43  
Assessing the Validity of the Evaluative Method for Providing Evidence of EBP in Autism  46  
The Mathematical Relationship Between Inter-rater Reliability and Predictive Validity  48  
Comparing the Youden and Dom-Index Values of Kappa to Cohen’s Kappa  49  
Conclusion  50

PART II  
TREATMENT REVIEWS

Chapter 4  
Evidence-Based Treatment of Behavioral Excesses and Deficits for Individuals with Autism Spectrum Disorders  
Michael D. Powers, Mark J. Palmieri, Kristen S. D’Eramo, and Kristen M. Powers

Introduction  55  
Evidence-Based Components of Intervention  57  
Functional Behavior Assessment  59  
Functional Communication Training  68  
Noncontingent Reinforcement  70  
Behavioral Momentum  74  
Behavioral Treatment of Sleep Problems in Individuals with Autism Spectrum Disorder  77  
Other Evidence-Based Practices for Treating Problem Behavior in individuals with Autism Spectrum Disorders  86  
Conclusion  86
Chapter 5
Evidence-Based Treatments in Communication for Children with Autism Spectrum Disorders 93
Patricia A. Prelock, Rhea Paul, and Elizabeth M. Allen

Introduction 93
Prelinguistic Communication 94
Early Language Level 123
The Acquisition of Language 141
Conclusion 158

Chapter 6
Treatments to Increase Social Awareness and Social Skills 171
Suzannah J. Ferraioli and Sandra L. Harris

Introduction 171
Joint Attention 172
Imitation 174
Peer Training 178
Social Stories 182
Teaching Social Skills and Social Cognition in Groups 185
Conclusion 192

Chapter 7
Cognitive Behavioral Therapy in High-Functioning Autism: Review and Recommendations for Treatment Development 197
Jeffrey J. Wood, Cori Fujii, and Patricia Renno

Introduction 197
Psychiatric Comorbidity in ASD 200
A Review of CBT and Related Mental Health Treatments in ASD 201
CBT in Autism Treatment: Future Directions 219
Conclusion 226

Chapter 8
Psychopharmacology in Children with PDD: Review of Current Evidence 231
Lawrence Scahill and Susan Griebell Boorin

Introduction 231
Hyperactivity 232
Repetitive Behavior 235
Serious Maladaptive Behavior 237
Chapter 9
Interventions That Address Sensory Dysfunction for Individuals with Autism Spectrum Disorders: Preliminary Evidence for the Superiority of Sensory Integration Compared to Other Sensory Approaches 245
Roseann C. Schaaf

Introduction 245
What Is Sensory Dysfunction in ASD? 246
Interventions to Address Sensory Dysfunction 247
Evidence for the Sensory-Integrative Approach 249
Evidence for Specific Sensory Techniques 256
Conclusion 269

Chapter 10
Dietary, Complementary, and Alternative Therapies 275
Susan L. Hyman and Susan E. Levy

Introduction 275
Epidemiology of CAM 276
Decision to Use CAM for Symptoms of ASD 276
Evaluation of CAM Therapies 276
Evidence for Common CAM Treatments 279
Conclusion 287

PART III
RESEARCH TO PRACTICE

Chapter 11
The Role of Adaptive Behavior in Evidence-Based Practices for ASD: Translating Intervention into Functional Success 297
Katherine D. Tsatsanis, Celine Saulnier, Sara S. Sparrow,
and Domenic V. Cicchetti

Introduction 297
Adaptive Behavior 298
Evidence-Based Practices in Adaptive Behavior Intervention 300
Adaptive Behavior: A Fundamental Component of the Treatment Process 300
Adaptive Behavior as a Measure of Outcome 303
Conclusion 305
Appendix: Vineland-II 307
Chapter 12
Practicing Evidence-Based Practices  309
Ruth Blennerhassett Eren and Pamela Owen Brucker

Introduction  309
Professional Preparation or Training for Teacher Certification  312
In-service Training  315
The Teaming Process  318
Conclusion  324
Appendix 1: Initial Knowledge and Skill Set: Teachers of Individuals with Developmental Disabilities/Autism  327
Appendix 2: Advanced Knowledge and Skill Set: Developmental Disabilities/Autism Specialist  334
Appendix 3: Sample Team Meeting Notes  338
Appendix 4: Sample Educational Matrix  339
Appendix 5: Sample Curriculum Template  340
Appendix 6: Sample Ecological Inventory  341

Chapter 13
The Implementation of Evidence-Based Practices in Public Schools  343
Peter Doehring and Vincent Winterling

Introduction  343
The Delaware Autism Program  344
Defining EBP for Educators  345
Identifying Broad and Individualized EBP  347
Implementing EBP  355
Case Study: Adopting a Proactive Approach to Behavior Support  357
Conclusion  360

Chapter 14
Evidence-Based Practices in Autism: Where We Are Now and Where We Need to Go  365
Fred R. Volkmar, Brian Reichow, and Peter Doehring

Where We Are Now  366
Treatment Research and Evaluation  367
The Gap Between Research and Practice  373
Where We Need to Go  375
Final Thoughts  382
Appendix: Research Databases for Information on Autism Treatments  390

Index  393
Evidence-Based Practices and Treatments for Children with Autism
Reichow, B.; Doehring, P.; Cicchetti, D.V.; Volkmar, F.R. (Eds.)
2011, XVIII, 408 p. 4 illus., Hardcover
ISBN: 978-1-4419-6973-6