
Contents

CHAPTER 1. The Nature of Attention-Deficit/ Hyperactivity Disorder	1
<i>A Brief History of ADHD, 4</i>	
<i>Core Symptoms of ADHD, 9</i>	
<i>Situational and Contextual Factors, 11</i>	
<i>Associated Cognitive Impairments, 13</i>	
<i>Diagnostic Criteria for ADHD, 14</i>	
<i>ADHD—Predominantly Inattentive Type, 22</i>	
<i>Conclusion, 27</i>	
CHAPTER 2. Biological Etiologies Associated with ADHD	29
<i>Neurological Factors, 32</i>	
<i>Genetic Factors, 37</i>	
<i>Environmental Toxins, 41</i>	
<i>Implications for Theory Construction, 43</i>	
<i>Conclusion, 45</i>	
CHAPTER 3. Defining Behavioral Inhibition, Self-Control, and Executive Function	47
<i>Definition of Terms, 47</i>	
<i>Events That Initiate Inhibition and Self-Control, 58</i>	
<i>Conclusion, 63</i>	
CHAPTER 4. Behavioral Inhibition and ADHD	65
<i>Evidence for Deficits in Behavioral Inhibition in ADHD, 65</i>	
<i>Why Is a New Theory of ADHD Needed?, 77</i>	
<i>Conclusion, 81</i>	

CHAPTER 5.	Neuropsychological Views of the Executive Functions: The Origins of a Hybrid Model	83
	<i>The Nature of Executive Functions, 83</i>	
	<i>Executive Functions: A Synthesis, 101</i>	
	<i>Conclusion, 106</i>	
CHAPTER 6.	Additional Evidence Supporting the Existence of the Executive Functions	108
	<i>Studies Using Factor Analysis with Test Batteries of Executive Functions, 109</i>	
	<i>Neuroimaging Studies Using Measures of Executive Functions, 136</i>	
	<i>Relationship of Intelligence to Executive Functions, 149</i>	
	<i>Conclusion, 152</i>	
CHAPTER 7.	Constructing the Hybrid Model of Executive Functions	154
	<i>Behavioral Inhibition, 158</i>	
	<i>Nonverbal Working Memory: Covert Sensing to the Self, 162</i>	
	<i>Internalization of Speech (Verbal Working Memory), 174</i>	
	<i>Self-Regulation of Affect/Motivation/Arousal, 180</i>	
	<i>Reconstitution, 185</i>	
	<i>Motor Control/Fluency/Syntax, 192</i>	
	<i>Comparisons to Other Models, 193</i>	
	<i>The Place of Sustained Attention in the Model, 199</i>	
	<i>On the Nature of the "Central Executive," 201</i>	
	<i>Human Volition and Will, 203</i>	
	<i>Conclusion, 207</i>	
CHAPTER 8.	Developmental Considerations: Self-Control as an Instinct	209
	<i>Development of the Executive Functions, 209</i>	
	<i>Self-Control as an Instinct, 227</i>	
	<i>Conclusion, 233</i>	
CHAPTER 9.	Extending the Hybrid Model of Executive Functions to ADHD	235
	<i>Predictions of the Hybrid Model, 238</i>	
	<i>The Nature of Inattention in ADHD, 256</i>	
	<i>Conclusion, 258</i>	

CHAPTER 10. Evidence Supporting Executive Function Deficits in ADHD	260
<i>Important Methodological Caveats</i> , 260	
<i>Evidence for Working Memory Deficits in ADHD</i> , 265	
<i>Evidence for Deficits in Self-Regulation of Affect/Motivation/Arousal</i> , 285	
<i>Evidence for Deficits in Reconstitution</i> , 290	
<i>Evidence for Deficits in Motor Control/Fluency/Syntax</i> , 294	
<i>ADHD and Intelligence (IQ)</i> , 296	
<i>Stimulant Medication Effects on ADHD and Executive Functions</i> , 299	
<i>ADHD, Reproductive Fitness, and Life Expectancy</i> , 302	
<i>Unresolved Issues</i> , 307	
<i>Conclusion</i> , 320	
CHAPTER 11. Understanding ADHD and Self-Control: Social and Clinical Implications	312
<i>Social Implications of Understanding ADHD</i> , 313	
<i>Implications for Clinical Diagnosis</i> , 320	
<i>Implications for Clinical Assessment</i> , 331	
<i>Implications for Treatment</i> , 337	
<i>Conclusion</i> , 347	
References	351
Index	399