

# CONTENTS

Preface	ix
About the Editors	xi
Contributors	xiii

<b>1</b>	<b>An Historical Perspective of the Perception of Vertigo, Dizziness, and Vestibular Medicine</b>	<b>1</b>
	<i>Christopher K. Zalewski</i>	
<b>2</b>	<b>Ontogeny of the Vestibular System and Balance</b>	<b>15</b>
	<i>Timothy A. Jones and Sherri M. Jones</i>	
<b>3</b>	<b>Practical Anatomy and Physiology of the Ocular Motor System</b>	<b>43</b>
	<i>Scott D. Z. Eggers</i>	
<b>4</b>	<b>Practical Anatomy and Physiology of the Vestibular System</b>	<b>69</b>
	<i>Jamie M. Bogle and Robert F. Burkard</i>	
<b>5</b>	<b>Practical Biomechanics and Physiology of Balance</b>	<b>87</b>
	<i>Lewis M. Nashner</i>	
<b>6</b>	<b>Clinical Neurophysiology of Vestibular Compensation</b>	<b>105</b>
	<i>Kamran Barin</i>	
<b>7</b>	<b>The Vertigo Case History</b>	<b>125</b>
	<i>Jay A. Gantz, Belinda C. Sinks, and Joel A. Goebel</i>	
<b>8</b>	<b>Assessing Dizziness-Related Quality of Life</b>	<b>143</b>
	<i>Erin G. Piker, Gary P. Jacobson, and Craig W. Newman</i>	
<b>9</b>	<b>Bedside Assessment of the Vestibular System</b>	<b>167</b>
	<i>Carrie W. Hoppes, Karen H. Lambert, and Devin L. McCaslin</i>	
<b>10</b>	<b>Eye Movement Recording and Ocular Motility Testing</b>	<b>189</b>
	<i>Neil T. Shepard, Michael C. Schubert, and Scott D. Z. Eggers</i>	
<b>11</b>	<b>Positional Testing and Treatment</b>	<b>225</b>
	<i>Richard A. Clendaniel</i>	
<b>12</b>	<b>Caloric Testing</b>	<b>257</b>
	<i>Kamran Barin</i>	

<b>13</b>	<b>Rotational Vestibular Assessment</b> <i>Christopher K. Zalewski</i>	283
<b>14</b>	<b>The Video Head Impulse Test (vHIT)</b> <i>Ian S. Curthoys, Hamish G. MacDougall, Leigh A. McGarvie, Konrad P. Weber, David Szmulewicz, Leonardo Manzari, Ann M. Burgess, and G. Michael Halmagyi</i>	333
<b>15</b>	<b>Computerized Dynamic Posturography: Methodology and Interpretations</b> <i>Lewis M. Nashner and Neil T. Shepard</i>	365
<b>16</b>	<b>Vestibular-Evoked Myogenic Potentials (VEMPs)</b> <i>Devin L. McCaslin and Gary P. Jacobson</i>	399
<b>17</b>	<b>Electrocochleography (ECochG)</b> <i>Paul R. Kileny and Devin L. McCaslin</i>	439
<b>18</b>	<b>Pediatric Vestibular Testing</b> <i>Kristen Janky and Neil T. Shepard</i>	457
<b>19</b>	<b>Vestibular Balance Therapy for Children</b> <i>Jennifer B. Christy</i>	479
<b>20</b>	<b>Medical Management of Vertigo That Is Otologic in Origin</b> <i>Brian Neff and R. Mark Wiet</i>	489
<b>21</b>	<b>Surgical Management of Vertigo That Is Otologic in Origin</b> <i>R. Mark Wiet</i>	501
<b>22</b>	<b>Neurologic Origins of Dizziness and Vertigo</b> <i>Joseph M. Furman and Susan L. Whitney</i>	519
<b>23</b>	<b>Behavioral Factors in Dizziness and Vertigo</b> <i>Jeffrey P. Staab</i>	529
<b>24</b>	<b>Vestibular Rehabilitation</b> <i>Susan L. Whitney and Joseph M. Furman</i>	549
<b>25</b>	<b>The Aging Vestibular System: Implications for Rehabilitation</b> <i>Dara Meldrum and Courtney D. Hall</i>	577
<b>26</b>	<b>Topographical Localization of Vestibular System Impairment</b> <i>Gary P. Jacobson, Erin G. Piker, Richard A. Roberts, Devin L. McCaslin, and Nabih M. Ramadan</i>	597
<b>27</b>	<b>Challenging Cases</b> <i>Neil T. Shepard</i>	617
<b>Appendix I</b>	<b>Pathophysiology Signs and Symptoms of Dizziness</b> <i>Neil T. Shepard</i>	629

---

<b>Appendix II</b>	<b>Coding and Billing</b>	<b>645</b>
	<i>Robert F. Burkard, Neil T. Shepard, and Stuart Trembath</i>	
<b>Appendix III</b>	<b>Interprofessional Education and Practice</b>	<b>653</b>
	<i>Neil T. Shepard and Robert F. Burkard</i>	
<b>Appendix IV</b>	<b>Specialty Rotational Vestibular Assessments</b>	<b>659</b>
	<i>Christopher K. Zalewski</i>	
<i>Index</i>		<b>689</b>