
Contents

<i>Preface</i>	<i>xi</i>	
<i>Acknowledgments</i>	<i>xvii</i>	
<i>Video List</i>	<i>xix</i>	
Chapter 1. Introduction to and Epidemiology of Swallowing Disorders	1	
Introduction	2	
Need for Early Intervention	7	
Epidemiology	8	
Summary	14	
Discussion Questions	14	
Study Questions	14	
References	15	
Chapter 2. Anatomy and Physiology of the Swallowing Mechanism	19	
Introduction	20	
Central Nervous System	20	
Peripheral Nervous System	20	
Anatomy of the Swallowing Mechanism	26	
The Normal Swallow	41	
Cranial Nerves Involved in Swallowing	45	
Sphincters	46	
Central Neural Control of Swallowing	47	
Respiration and Deglutition	48	
Summary	49	
Discussion Questions	50	
Study Questions	50	
References	51	
Chapter 3. Swallowing Disorders Arising From Neurologic Disorders and Other Diseases	53	
Introduction	54	
Neurologic Disorders	63	
Swallowing Disorders Found in Critical Care Patients	72	
Esophageal Swallowing Disorders	73	
Infectious Diseases	80	
Medications and Swallowing Disorders	81	
Swallowing Disorders Following Radiation Therapy	84	

Autoimmune Disorders and Diseases	86
Summary	89
Discussion Questions	89
Study Questions	90
References	90
Chapter 4. Swallowing Disorders Following Surgical Treatments	95
Introduction	96
Anterior Cervical Spine Surgery	96
Neoplasms	100
Head and Neck Surgery	101
Skull Base Surgery	105
Tracheotomy	106
Zenker Diverticulum	108
Summary	109
Discussion Questions	110
Study Questions	110
References	110
Chapter 5. Clinical Evaluation of Swallowing Disorders	113
Introduction	114
Evidence-Based Practice	114
Multidisciplinary Dysphagia Team	115
Swallowing Screening	115
Clinical Swallow Evaluation	118
Silent Aspiration and the Clinical Swallow Examination	125
Summary	125
Discussion Questions	126
Study Questions	126
References	126
Chapter 6. Instrumental Evaluation of Swallowing Disorders	129
Introduction	130
Flexible Endoscopic Evaluation of Swallowing	130
Modified Barium Swallow	135
Modified Barium Swallow, Flexible Endoscopic Evaluation of Swallowing, and Silent Aspiration	137
Manometry and High-Resolution Manometry	138
Tongue Pressure/Strength Measurement	140
Other Instrumental Tests Associated With Swallowing Disorders	140
Summary	147

Discussion Questions	147
Study Questions	147
References	147
Chapter 7. Treatment of Swallowing Disorders	151
Introduction	152
Evidence-Based Practice	152
Multidisciplinary Approach to Swallowing Therapy	153
Oral Hygiene	154
Compensatory Swallowing Therapy	155
Rehabilitative Swallowing Therapy	159
Preventive Swallowing Therapy for Head and Neck Cancer Survivors	170
Other Swallowing Treatment Methods	170
Summary	171
Discussion Questions	172
Study Questions	173
References	173
Chapter 8. Nutrition and Diets	177
Introduction	178
Dietitian and Dysphagia	178
Properties of Liquids and Foods	179
Oral Nutrition and Dysphagia Diets	181
Nonoral Diets	189
Malnutrition and Dehydration	194
Summary	196
Discussion Question	196
Study Questions	196
References	197
Chapter 9. Swallowing in the Aging Population	199
Introduction	200
Aging Process Related to Swallowing	200
Changes in Swallowing	201
Dementia	202
Feeding Assistance	203
Nutrition in the Aging Population	203
Ethical Considerations	205
Summary	206
Discussion Question	206
Study Questions	207
References	207

Chapter 10. Pediatric Dysphagia: Assessment of Disorders of Swallowing and Feeding	211
Introduction	212
Definition	213
Etiology	213
Epidemiology	213
Anatomy of Swallowing and Feeding	217
Physiology of Swallowing and Feeding	220
Coordination of Apnea in Pediatric Swallowing	222
Classification of Dysphagia	222
Diagnosis	224
Assessment of Early Reflexes	229
Summary	231
Discussion Questions	232
Study Questions	232
References	233
Chapter 11. Treatment of Feeding and Swallowing Disorders in Infants and Children	235
Introduction	236
Pediatric Feeding Disorders	237
Feeding and Swallowing Behaviors	238
Treatment for Specific Disorders	240
Options and Considerations in the Treatment of Feeding Disorders in Infants and Children	245
Nonoral Feeding	246
Additional Factors in Infant Feeding and Swallowing	247
Summary	249
Discussion Questions	249
Study Questions	250
References	250
Chapter 12. Surgical Treatment and Prosthetic Management of Swallowing Disorders	253
Introduction	254
Rehabilitative Surgical Procedures	254
Palliative Surgical Procedures	262
Surgical Conclusions	265
Prosthetics	265
Prosthetics Conclusions	268
Summary	268
Discussion	268
Study Questions	269
References	269

Chapter 13. Case Studies	273
Introduction	274
Diagnosis	275
Instrumentation	277
Personnel	278
Facilities	279
Case Studies From Voice and Swallowing Centers	279
Summary	289
Discussion Questions	289
Study Questions	290
References	290
<i>Glossary</i>	<i>293</i>
<i>Appendix 1. Reflux Symptom Index (RSI)</i>	<i>313</i>
<i>Appendix 2. Reflux Finding Score (RFS)</i>	<i>315</i>
<i>Appendix 3. Burke Dysphagia Screening Test</i>	<i>317</i>
<i>Appendix 4. The MD Anderson Dysphagia Inventory</i>	<i>319</i>
<i>Appendix 5. Eating Assessment Tool (EAT-10)</i>	<i>321</i>
<i>Appendix 6. Dysphagia Handicap Index (DHI)</i>	<i>323</i>
<i>Appendix 7. Voice Handicap Index-10 (VHI-10)</i>	<i>325</i>
<i>Appendix 8. Clinical Swallowing Examination Sample Form</i>	<i>327</i>
<i>Answers to Study Questions</i>	<i>331</i>
<i>Index</i>	<i>333</i>