

CONTENTS

Preface	xi	
Chapter 1	Introduction: Definitions and Basic Principles of Evaluation and Treatment of Swallowing Disorders	1
	Signs and Symptoms of Dysphagia	3
	Screening: Identifying the Patient at High Risk for Oropharyngeal Dysphagia	4
	Complications of Dysphagia	5
	Multidisciplinary Approach	5
	Patient Safety	6
	Focus of this Book	7
	References	8
Chapter 2	Anatomy and Physiology of Normal Deglutition	13
	Anatomic Structures	13
	Physiology	23
	The Mechanism as a Set of Tubes and Valves	36
	Changes with Age	37
	Variations in Normal Swallowing	45
	References	47
Chapter 3	Instrumental Techniques for the Study of Swallowing	53
	Imaging Studies	54
	Nonimaging Procedures	62

	Selecting an Instrumental Procedure	67
	References	67
Chapter 4	Disorders of Deglutition	71
	The Lateral View	77
	The Posterior–Anterior View	114
	Appendix 4A: Videofluorographic Examination of Swallowing Worksheet	120
	References	132
Chapter 5	Evaluation of Swallowing Disorders	135
	Screening Procedures	135
	The Bedside or Clinical Examination	139
	Videofluoroscopic Procedure—The Modified Barium Swallow	168
	References	185
Chapter 6	Management of the Patient with Oropharyngeal Swallowing Disorders	191
	Treatment Planning	191
	Oral Versus Nonoral Feeding	193
	Compensatory Treatment Procedures	196
	Therapy Procedures by Category	205
	Therapy and Management for Specific Swallowing Disorders	222
	Other Issues in Swallowing Therapy	235
	Issues in the Management of Dysphagia in Various Settings	241
	Summary	246
	References	246

Chapter 7	Swallowing Disorders After Treatment for Oral and Oropharyngeal Cancer	251
	Pretreatment Dental Assessment	252
	Tumor Staging	253
	Typical Tumor Locations and Resections in the Oral Cavity	254
	Types of Reconstruction Following the Ablative Procedure	260
	Rehabilitation Needs and Procedures for the Oral Cancer Patient	263
	Rehabilitation Needs and Procedures for the Oropharyngeal Cancer Patient	265
	Optimal Schedule for Rehabilitation	265
	Swallowing Disorders Related to Specific Surgical Resections and Reconstruction Techniques	268
	Swallowing Disorders After Radiotherapy to the Oral Cavity and Oropharynx	274
	General Principles of Swallowing Therapy with Treated Oral Cancer Patients	275
	References	277
 Chapter 8	 Swallowing Disorders After Treatment for Laryngeal Cancer	 281
	Principles of Tumor Management in the Larynx	282
	Typical Tumor Locations and Resections in the Larynx and Associated Swallowing Disorders	284
	Radiotherapy	296
	General Guidelines for Swallowing Therapy with Treated Laryngeal Cancer Patients	297
	References	298

Introduction to Chapters 9 and 10: Swallowing Disorders Caused by Neurologic Impairments	303
General Considerations in Management of Patients with Swallowing Disorders Due to a Neurologic Disorder	304
Evaluation of the Neurologic Patient in the Intensive Care Unit	305
References	306
Chapter 9 Swallowing Disorders Caused by Neurologic Lesions from Which Some Recovery Can Be Anticipated	307
Swallowing Problems After Stroke	307
Swallowing Problems Following Closed Head Trauma	315
Swallowing Problems After Cervical Spinal Cord Injury	318
Swallowing Problems After Neurosurgical Procedures Affecting the Brainstem and/or Cranial Nerves	322
Swallowing Problems Resulting from Poliomyelitis	323
Swallowing Problems Associated with Guillain-Barré	323
Swallowing Problems Associated with Cerebral Palsy	324
Swallowing Problems Associated with Dysautonomia (Riley-Day Syndrome)	325
References	326
Chapter 10 Swallowing Problems Associated with Degenerative Disease	329
Swallowing Problems Associated with Neurologic or Neuromuscular Disease	330

	Other Degenerative Diseases Causing Swallowing Problems	340
	References	341
Chapter 11	Medical Treatment for Swallowing Disorders	345
	Techniques Designed To Improve Specific Swallowing Disorders	345
	Procedures Designed To Control Unremitting Aspiration	349
	Techniques for Nonoral Feeding	350
	Medications	354
	References	354
Chapter 12	Clinical Decision Making	359
	Prerequisites for Good Decision Making	359
	Clinical Decisions	360
	Ethical Issues for Good Clinical Decision Making	364
	References	364
Chapter 13	Multidisciplinary Management of Dysphagia	367
	Professions Often Included on the Multidisciplinary Team	368
	Establishing the Radiographic Procedure	370
	Models of Communication Between the Team Members	370
	Efficacy of Multidisciplinary Rehabilitation for Dysphagia	371
	Staff Education by the Team	372
	References	372

Chapter 14	Measurement of Swallowing and Intervention	
	Strategies: The Future	375
	Swallowing Measures	375
	Criteria for the Measurement of Treatment Effects	377
	Every Clinician's Role	378
	The Future	378
	References	379
Author Index		381
Subject Index		387