

Contents

Preface.....	vii
Contributors	viii
1. Temporal Bone Dissection Laboratory.....	1
1.1 Surgical Instruments	1
1.2 General Guidelines for Drilling.....	1
1.3 Suction Irrigation.....	1
2. Anatomy of the Temporal Bone	3
2.1 Squamous Bone	5
2.2 Tympanic Bone	5
2.3 Mastoid Process	5
2.4 Petrous Bone	6
2.5 The Middle Ear.....	6
2.5.1 The Tympanic Membrane	6
2.5.2 The Ossicular Chain.....	8
2.5.3 The Tympanic Cavity.....	10
2.5.4 The Antrum.....	11
2.5.5 The Labyrinth	11
2.6 Internal Auditory Canal.....	13
2.6.1 The Carotid Artery.....	14
2.6.2 The Sigmoid Sinus and Jugular Bulb.....	14
2.7 The Intratemporal Facial Nerve.....	14
2.7.1 Labyrinthine Segment	14
2.7.2 Tympanic Segment	15
2.7.3 Mastoid Segment.....	17
2.8 Endoscopic Surgical Anatomy	22
3. Transmastoid Approaches	26
3.1 Closed Tympanoplasty.....	26
3.1.1 Indications.....	26
3.1.2 Surgical Steps	26
3.1.3 Hints and Pitfalls	27
3.2 Open Tympanoplasty	33
3.2.1 Indications.....	33
3.2.2 Surgical Steps	33
3.2.3 Hints and Pitfalls	34
3.3 Modified Bondy's Technique	41
3.3.1 Indications.....	41
3.3.2 Surgical Steps	41
3.3.3 Hints and Pitfalls	42
3.4 Radical Mastoidectomy.....	48
3.5 Subtotal Petrosectomy	49
3.5.1 Indications.....	49
4. Translabyrinthine Approaches.....	69
4.1 Basic Translabyrinthine Approach	69
4.1.1 Indications.....	69
4.1.2 Surgical Steps	69
4.1.3 Hints and Pitfalls	70
4.2 Management of High Jugular Bulb.....	85
4.2.1 Surgical Steps	85
4.3 The Enlarged Translabyrinthine Approach with Transapical Extension Types (I and II).....	88
4.3.1 Rationale	88
4.3.2 Indications.....	88
4.3.3 Surgical Steps	88
4.3.4 Hints and Pitfalls	88

5.	Facial Nerve Decompression	93		
5.1	Transmastoid Facial Nerve Decompression	93	5.1.3	Hints and Pitfalls
5.1.1	Indications	93		
5.1.2	Surgical Technique	93	5.2	Translabyrinthine Facial Nerve Decompression ..
6.	Middle Cranial Fossa Approaches	98		
6.1	Enlarged Middle Cranial Fossa Approach	98	6.3	Combined Middle Cranial Fossa Transpetrous Approach
6.1.1	Indications	98		
6.1.2	Surgical Steps	98	6.3.1	Indications
6.1.3	Hints and Pitfalls	99	6.3.2	Surgical Steps
6.2	Middle Cranial Fossa Approach for Tumors of the Labyrinthine Segment of the Facial Nerve	109	6.3.3	Hints and Pitfalls
6.2.1	Surgical Steps	109	6.4	Combined Transmastoid Middle Cranial Fossa Approach
6.2.2	Hints and Pitfalls	109		
			6.4.1	Indications
			6.4.2	Surgical Steps
			6.4.3	Hints and Pitfalls
7.	Retrosigmoid–Retrolabyrinthine Approach	124		
7.1	Indications	124	7.3	Hints and Pitfalls
7.2	Surgical Steps	124		
8.	Transotic Approach	132		
8.1	Indications	132	8.3	Hints and Pitfalls
8.2	Surgical Steps	132		
9.	Modified Transcochlear Approach (Type A)	142		
9.1	Indications	142	9.3	Hints and Pitfalls
9.2	Surgical Steps	142		
10.	Infratemporal Fossa Approaches	155		
10.1	Infratemporal Fossa Approach Type A	155	10.2	Infratemporal Fossa Approach Type B
10.1.1	Indications	155		
10.1.2	Surgical Anatomy	155	10.2.1	Indications
10.1.3	Surgical Steps	157	10.2.2	Surgical Steps
10.1.4	Transcondylar–Transtubercular Extension of the Infratemporal Fossa Type A Approach	162	10.2.3	Hints and Pitfalls
	Bibliography	188		
	Index	191		