Contents

Volume 1

Section 1: Otology and Lateral Skull Base

1. **The Surgical Technique of Otoplasty** 3
   Murat Songu (Turkey)
2. **Single Stage Pinna Reconstruction** 22
   Jumroon Tungkeeratichai (Thailand)
3. **Treatment of Earlobe Keloids** 35
   Stahl Shy, Haik Josef, Goldan Oren, Eyal Winkler (Israel)
4. **Preauricular Sinus** 39
   Vicky S Khattar, Bachi T Hathiram, Snigdha Devane, Supriya Rode (India)
5. **External Auditory Canal Obliteration** 42
   Vicky S Khattar, Bachi T Hathiram (India)
6. **Meatoplasty** 49
   Vicky S Khattar, Bachi T Hathiram (India)
7. **Intratympanic Injection** 58
   Vicky S Khattar, Bachi T Hathiram, Supriya Rode, Hemant Sharma (India)
8. **Surgical Approaches to the Middle Ear Cleft and Their Indications** 62
   Vicky S Khattar, Bachi T Hathiram (India)
9. **Tympanoplasty (Author's Technique)** 67
   Shabbir Indorewala (India)
10. **Ossiculoplasty** 75
    Amith I Naragund, RS Mudhol (India)
11. **The Vibrant Soundbridge** 81
    Ashutosh G Pusalkar (India)
12. **Totally Implantable Middle Ear Device Esteem®** 89
    Maurizio Barbara, Claudio Macrì, Simonetta Monini (Italy)
13. **The Surgical Management of Cholesteatoma** 92
    T Nikolopoulos, P Gerbesiotis (Greece)
14. **Transposed Canal Wall Tympanomastoidectomy** 106
    Tuncay Ulug (Turkey)
15. **Inside-Out Mastoidectomy** 112
    Amol Patil, Sonal Modi, Madhuri Mehta, Narayan Jayashankar, KP Morwani (India)

16. **The Surgical Management of Congenital Cholesteatoma** 124
Jennings R Boyette, Gresham T Richter (USA)

17. **The Technique of Otoendoscopy for Cholesteatoma Surgery** 132
Mohamed Badr-El-Dine (Egypt)

18. **Endoscopic Management of Cholesteatoma** 148
RN Patil (India)

19. **Surgical Management of Complications of Chronic Suppurative Otitis Media** 161
Bachi T Hathiram, Vicky S Khattar (India)

20. **Tympanosclerosis: Surgery and Hearing Results** 168
Milan Stankovic (Serbia)

21. **Stapedotomy** 177
Vicky S Khattar, Bachi T Hathiram (India)

22. **Total Decompression of the Facial Nerve—Superior Prelabyrinthine Cell Tracts Approach** 190
Taizo Takeda, Akinobu Kakigi (Japan)

23. **Zygomatic Root Approach** 194
Tuncay Ulug (Turkey)

24. **Decompression of the Facial Nerve Following Traumatic Palsy** 200
Bachi T Hathiram, Vicky S Khattar (India)

25. **Bone Conduction Implants** 212
Gauri Mankekar (India)

26. **Minimally Invasive Cochlear Implantation with Mastoidal Three-Layer Flap** 224
Tuncay Ulug (Turkey)

27. **Cochlear Implants** 231
Milind Kirtane (India)

28. **Cochlear Implantation** 235
Arun K Gadre, Lynzee N Alworth, Katie L Austin, Paul A Tennant (USA)

29. **Cochlear Implants** 251
M Kameswaran, S Raghunandhan (India)

30. **Totally Implantable Hearing Devices** 261
M Kameswaran, S Raghunandhan (India)

31. **Auditory Brainstem Implants** 265
M Kameswaran, S Raghunandhan (India)

32. **Direct Acoustical Cochlear Stimulator** 270
M Kameswaran, S Raghunandhan (India)

33. **Electro-Acoustic Stimulation/Hybrid Implants** 272
M Kameswaran, S Raghunandhan (India)

34. **Auditory Midbrain Implants** 274
M Kameswaran, S Raghunandhan (India)

35. **Endolymphatic Sac Surgery for Meniere's Disease** 278
Stephen Wetmore (USA)

36. **Transmastoid Repair of Temporal Meningoencephaloceles and Cerebrospinal Fluid Otorrhea** 283
Diego Zanetti, Werner Garavello, Lorenzo Gaini (Italy)

37. **The Surgical Management of Cerebrospinal Fluid Otorrhea** 296
Bachi T Hathiram, Vicky S Khattar (India)

38. **Decision-Making in Lateral Skull Base Surgery** 303
KP Morwani, Narayan Jayashankar, Suresh Sankhla, Rahul Agrawal (India)

39. **Middle Fossa Approach** 311
JJ Waterval, RJ Stokroos, J Dings (Netherlands)

40. **Surgical Approach to Jugular Foramen Tumors (Infratemporal Fossa Type A)** 317
C Rayappa (India)

41. **Enlarged Translabyrinthine Approach** 324
KP Morwani, Narayan Jayashankar, Suresh Sankhla, Lalita Naik (India)

42. **Management of Vestibular Schwannoma: Dependence on Stakeholder's View for Small and Medium-Sized Tumors** 334
Haralampos Gouveris, Maria Zisiopoulou, Wolf J Mann (Germany)

43. **Gamma Knife Radiosurgery for Vestibular Schwannomas** 341
Roman Liscak (Czech Republic)

44. **Jugular Glomus: Literature Review and Surgical Technique** 350
Cassio Zottis Grapiglia, Roberta Rehder, Ali Diaz Castillejos, Luis A B Borba (Brazil)

Section 2: Rhinology and Anterior Skull Base

45. **Septoplasty** 369
Tulay Erden Habesoglu, Mehmet Habesoglu (Turkey)

46. **Endoscopic Septoplasty** 379
Bachi T Hathiram, Vicky S Khattar (India)

47. **Management of Septal Perforations** 385
Miriam Boenisch (Austria)

48. **Septal Reconstructions** 393
Miriam Boenisch (Austria)

49. **Nasal Fractures** 403
Bachi T Hathiram, Vicky S Khattar, Snigdha Devane, Balagopal Kurup (India)

50. **Carbon Dioxide LASER Treatment of Rhinophyma** 406
Vishal Madan (UK)

51. **Surgical Management of Oroantral Fistulae** 410
Miroslav Andrić (Serbia)

52. The Surgical Closure of an Oroantral Fistula **427**
Vicky S Khattar, Bachi T Hathiram (India)

53. Atrophic Rhinitis—An Alternative Surgical Concept **435**
Belaldavar BP (India)

54. Combined Subciliary and Endoscopic Dacryocystorhinostomy **443**
Rajesh R Yadav, P V Dhond, Girish Surlikar (India)

55. Endoscopic Dacryocystorhinostomy **447**
Vicky S Khattar, Bachi T Hathiram (India)

56. Endonasal Endoscopic Marsupialization of a Nasolabial Cyst **456**
Philippe Rombaux, Philippe Eloy (Belgium)

57. Endosocopic Sinus Surgery **460**
Milind Kirtane (India)

58. The Technique of Functional Endoscopic Sinus Surgery **465**
Jaiganesh Manickavasagam, Ullas Raghavan (UK)

59. Revision Endoscopic Sinus Surgery: When, Why and How? **531**
Andreas Leunig (Germany)

60. Endoscopic Management of Paranasal Sinus Mucopyoceles **544**
Vicky S Khattar, Bachi T Hathiram (India)

61. Sphenopalatine Artery Ligation **554**
Alok Thakar, Sharan Jayaram (India)

62. Endonasal Endoscopic Repair of Choanal Atresia **557**
Philippe Rombaux, Philippe Eloy (Belgium)

63. The Surgical Technique of Adenoidectomy **563**
Eugenijus Lesinskas (Lithuania)

64. Adenoidectomy **569**
Alper Yüksel, Nebil Ark (Turkey)

65. Overcoming Challenges in the Endoscopic Management of Sinonasal Tumors **572**
Vicky S Khattar, Bachi T Hathiram, Balagopal Kurup (India)

66. Endonasal Endoscopic Orbital Decompression in Graves' Disease **581**
Philippe Rombaux, Philippe Eloy (Belgium)

67. Endonasal Endoscopic Orbital Decompression **587**
Bachi T Hathiram, Vicky S Khattar (India)

68. Endoscopic Endonasal Reduction Surgery for Isolated Inferior Blowout Fracture **598**
Yasuyuki Hinohira, Masahiro Komori, Harumi Suzaki, Atsushi Shiraishi (Japan)

69. Endoscopic Optic Nerve Sheath Fenestration for Idiopathic Intracranial Hypertension **604**
Ashok K Gupta, Anish K Gupta, Anuragini Gupta (India)

70. Endoscopic Optic Nerve Decompression **613**
Bachi T Hathiram, Vicky S Khattar (India)

71. **Endonasal Resection of an Angiofibroma** 623
Andrew C Swift, Adam Donne (UK)

72. **Endoscopic Embolization and Resection of Juvenile Nasopharyngeal Angiofibromas** 630
Björn Herman, Deya Jourdy, Ramzi Younis (USA)

73. **Endoscopic Excision of Angiofibroma: Operative Technique and Applied Anatomy** 633
Brajendra Baser, Shenal Kothari (India)

74. **Endoscopic Management of Juvenile Nasopharyngeal Angiofibroma** 645
Vicky S Khattar, Bachi T Hathiram (India)

75. **The Surgical Management of Skullbase Tumors Extending to the Infratemporal Fossa** 664
Takashi Horiguchi, Kazunari Yoshida (Japan)

76. **Cerebrospinal Fluid Leakage Diagnosis** 671
Gregor Bachmann-Harildstad (Norway)

77. **Endoscopic Repair of CSF Rhinorrhea** 675
Milind Kirtane (India)

78. **Endonasal Endoscopic Management of CSF Rhinorrhea** 680
Bachi T Hathiram, Vicky S Khattar (India)

79. **Endoscopic Pituitary Surgery** 695
Nishit J Shah, C E Deopujari, Gauri Vaidya, Sunita Kanojia (India)

80. **Anterior Craniofacial Resection** 706
Saurabh Varshney (India)

81. **Endoscopic-Assisted Craniofacial Resection** 716
Prathamesh S Pai, Aliasgar Moiyadi and Deepa Nair (India)

82. **Expanded Endonasal Approaches to the Anterior Skull Base** 722
Leo FS Ditzel Filho, Danielle de Lara, Daniel M Prevedello, Pornthep Kasemsiri, Bradley A Otto, Matthew Old, Amin B Kassam, Ricardo L Carrau (USA)

83. **The Surgical Approach to Clival Lesions** 732
Giorgio Carrabba, Marco Locatelli (Italy)

84. **The Endoscopic Surgical Approaches to the Clivus** 743
Bashar Abuzayed, Nurperi Gazioglu (Turkey)

85. **The Surgical Technique of Endonasal Endoscopic Approach to the Craniovertebral Junction** 756
Bashar Abuzayed, Nurperi Gazioglu (Turkey)

86. **Endoscopic Endonasal Skull Base Approaches to the Midline and to the Cavernous Sinus** 768
Joaquim Enseñat, Matteo de Notaris, Alberto Prats-Galino (Spain)

87. **Expanded Endoscopic Endonasal Approach for Anterior Skull-Base Lesions: Technical Nuances and Description of Indications and Limitations** 776
Amir R Dehdashti (USA)

88. **Skull-Base Reconstruction after Endoscopic Expanded Approaches** 781
Nancy McLaughlin, Ricardo L Carrau, Brad Otto, Daniel M Prevedello Daniel Kelly (USA), Amin B Kassam (Canada)

Volume 2

Section 3: Facial Plastics, Cosmetics and Reconstructive Surgery

89. **Chemical Peels** 797
Chitra Nayak (India)

90. **Head and Neck Tissue Expansion** 807
Livnat Siman Tov, Alexander Margulis (Israel)

91. **The Surgical Technique of LASER Skin Resurfacing** 818
Zekayi Kutlubay, Murat Küçüktaş (Turkey)

92. **Hair Transplantation** 834
Jumroon Tungkeeratichai (Thailand)

93. **Surgery for Alopecia** 844
Arunesh Gupta, Dipesh J Malviya, Akshay P Deshpande (India)

94. **Upper and Lower Lid Blepharoplasty** 853
Giovanni André Pires Viana (Brazil)

95. **SMAS Rhytidectomy: Preoperative Evaluation, Surgical Techniques and Pitfalls** 867
Jeremy B White, Mark Domanski, Steven B Hopping (USA)

96. **Planning and Facial Analysis before Rhinoplasty** 879
Fabrizio Moscatiello, Javier Herrero Jover (Spain)

97. **A Color Atlas of Septorhinoplasty** 887
Sonna Ifeacho, Rajib Dasgupta, Guy Kenyon (UK)

98. **Augmentation Rhinoplasty** 916
Yong Ju Jang, Ji Heui Kim (Korea)

99. **The Surgical Management of the Crooked Nose** 941
Yakup Cil (Turkey)

100. **Surgical Techniques in Open Rhinoplasty Procedures** 948
Tamer Seyhan (Turkey)

101. **Rhinoplasty for Cleft Nasal Deformity** 966
C Thomas (Oman)

102. **Revision Rhinoplasty: The Lost Tip Support** 988
Hossam MT Foda (Egypt)

103. **Alar Struts in Rhinoplasty** 993
Patrick T Hennessey, Kofi DO Boahene (USA)

104. **Augmentation Rhinoplasty** 997
Brajendra Baser, Shenal Kothari (India)

105. **Alar Base Reduction** 1009
Sara Dickie, Jeremy Warner (USA)

106. Esthetic Rhinoplasty—Ailed and Ailing Noses **1019**
BP Belaldavar (India)

107. Cleft Lip and Palate **1044**
G Spinelli, G Carnevali, D Lazzeri, L Autelitano (Italy)

108. Lip Reconstruction **1064**
Jagadish Tubachi, Karthikeyan Balasubramanian, Sumeet Pahwa, Sultan Pradhan (India)

109. Operative Techniques in Mandible Fractures **1074**
Rajesh R Yadav, PV Dhond (India)

110. Faciomaxillary Fractures **1091**
Arunesh Gupta, Akshay P Deshpande, Dipesh J Malviya (India)

111. Orbital Floor Fracture **1100**
Rajesh R Yadav, Girish Surlikar, PV Dhond (India)

Section 4: Voice and Laryngotracheal Surgery

112. Principles of Phonomicrosurgery **1109**
Vicky S Khattar, Bachi T Hathiram (India)

113. Leukoplakia of the Vocal Folds **1118**
Nupur Kapoor Nerurkar, Gauri Kapre (India)

114. Premalignant Lesions of the Larynx and their Management **1125**
Arsheed Hussain Hakeem, Imtiyaz Hussain Hakeem, Sultan A Pradhan (India)

115. Photodynamic Therapy for Laryngeal Cancers **1130**
Nestor Rigual, Merill Biel, Kiskumar Thankappan, Barbara Henderson (USA)

116. Transoral Microlaryngoscopic LASER Surgery for Cancer of Larynx and Hypopharynx **1135**
Jagadish Tubachi, Karthikeyan Balasubramanian, Kannan Rajan, Sultan A Pradhan (India)

117. Injection Laryngoplasty: Indications, Techniques, Injectables and Results **1147**
Nayla Matar, Marc Remacle (Belgium)

118. Surgical Management of Sulcus Vocalis **1154**
Tolga Kandogan (Turkey)

119. Anterior Glottic Web Management **1160**
Hirohito Umeno (Japan)

120. Diagnostic Laryngo-Tracheo-Bronchoscopy **1163**
Yogesh Bajaj (UK)

121. Bronchoscopy **1165**
AM Shivakumar, BK Venkatesha, KM Ajith (India)

122. The Use of the KTP LASER for Treatment of Laryngeal Papillomatosis **1171**
James A Burns (USA)

123. Surgical Management of Laryngeal Papillomatosis Using Microdebrider **1176**
Bachi T Hathiram, Vicky S Khattar (India)

124. Aryepiglottoplasty **1184**
Yogesh Bajaj (UK)

125. Surgical Management of Posterior Glottic Stenosis **1186**
Bachi T Hathiram, Vicky S Khattar (India)

126. Dilatation of a Tracheal Web Using a LASER **1191**
Bachi T Hathiram, Vicky S Khattar (India)

127. LASER Arytenoidectomy **1195**
Vicky S Khattar, Bachi T Hathiram (India)

128. Laterofixation of the Vocal Folds in Acute Bilateral Vocal Fold Paralysis **1199**
Waleed F Ezzat (Egypt)

129. Pediatric Tracheostomy **1204**
Yogesh Bajaj (UK)

130. Cricoid Split **1207**
Yogesh Bajaj (UK)

131. Voice Restoration after Cordectomies: Type III Thyroplasty for Voice Reconstruction after Laryngofissure Cordectomy **1208**
T Kandogan (Turkey)

132. Botulinum Toxin for Laryngeal Dystonias **1212**
Michael S Benninger (USA)

133. Selective Laryngeal Adductor Denervation-Reinnervation Surgery for Adductor Spasmodic Dysphonia **1216**
Dinesh K Chhetri, Jennifer L Long (USA)

134. Medialization Laryngoplasty (Thyroplasty) **1220**
Michael S Benninger (USA)

135. Silastic Medialization Laryngoplasty (Type 1 Thyroplasty) **1226**
Abir K Bhattacharyya, Ahmad Abu-Omar (UK)

136. Arytenoid Rotation **1235**
Jayakumar Menon (India)

137. Type I Thyroplasty **1238**
Jayakumar Menon (India)

138. Type II Thyroplasty **1243**
Jayakumar Menon (India)

139. Type III Thyroplasty **1245**
Jayakumar Menon (India)

140. Type IV Thyroplasty **1249**
Jayakumar Menon (India)

141. **Expertise of Voice Feminization Surgery to 270 Diverse International Patients** 1252
Ornouma Sriwanishvipat, Suthee Rattanathummawat, Egoy-Salvan Lucel (Thailand)

142. **Decision-Making in Laryngotracheal Stenosis** 1260
Vicky S Khattar, Bachi T Hathiram (India)

143. **The Surgical Management of Tracheal Stenosis** 1273
Danic Davorin, Prgomet Drago, Danic Hadzibegovic Ana (Croatia)

144. **The Surgical Management of Tracheal Stenosis** 1280
Mariano M Boglione (Argentina)

145. **Tracheal Resection and Anastomosis** 1290
Bachi T Hathiram, Vicky S Khattar (India)

146. **Laryngotracheal Reconstruction** 1298
Vicky S Khattar, Bachi T Hathiram (India)

147. **Partial Cricotracheal Resection** 1307
Bachi T Hathiram, Vicky S Khattar (India)

148. **Extended Partial Cricotracheal Resection** 1315
Vicky S Khattar, Bachi T Hathiram (India)

Section 5: Head and Neck Surgery

149. **The Surgical Technique of Tonsillectomy** 1327
Olaf Zagólski, Jerzy Nyzio (Poland)

150. **Surgery of Oral Submucous Fibrosis** 1331
Madan Kapre, Gauri Kapre (India)

151. **Excision of the Submandibular Salivary Gland** 1338
Bachi T Hathiram, Vicky S Khattar, Jagadish Tubachi (India)

152. **The Surgical Technique of Transoral Robotic Surgery** 1344
Eric J Moore (USA)

153. **Coblation-Assisted Procedures for Snoring and Sleep Apnea** 1351
Vikas Agrawal (India)

154. **Sialendoscopy** 1356
PP Singh, V Arora (India)

155. **The Endoscopic Intraoral Approach to the Submandibular Salivary Gland Resection** 1362
Jorge Orlando Guerrissi (Argentina)

156. **Transoral LASER Microsurgery for Malignancies of the Upper Aerodigestive Tract** 1366
Jason Durel, Jacques Gaudet, Melda Kunduk, Andrew J McWhorter (USA)

157. **Endoscopic Management of Zenker's Diverticulum** 1377
CW David Chang, Kevin W Lollar (USA)

158. Oncological Outcome of Transoral LASER Surgery in Laryngeal Carcinomas **1381**
Sadick H, Hörmann K (Germany)

159. Tracheostomy in Head and Neck Cancers **1385**
Bachi T Hathiram, Reema Rai, Parag Watve, Vicky S Khattar (India)

160. Endoscopic Cricopharyngeal Myotomy **1394**
Georges Lawson, Marc Remacle, Vincent Bachy (Belgium)

161. Superficial and Total Parotidectomy **1398**
Eric J Moore (USA)

162. Surgery of Thyroid **1410**
Madan Kapre, Abhishek D Vaidya (India)

163. The Surgical Technique of Thyroidectomy **1419**
David J Terris, Michael C Singer (USA)

164. The Surgical Management of Differentiated Thyroid Cancer **1425**
Tam-Lin Chow, Chi-Yee Choi (Hong Kong)

165. Parathyroidectomy **1432**
Dariusz Sagan, Julie A Miller, Janusz Klatka, Andrzej Stepulak (Poland)

166. The Management of the Parathyroid Glands During Thyroid Surgery **1443**
Daniel B Kuriloff (USA)

167. Thyroglossal Duct Cyst **1456**
Vicky S Khattar, Bachi T Hathiram, Snigdha Devane, Sunil Khot (India)

168. The Surgical Management of Branchial Cyst and Fistula **1462**
Bachi T Hathiram, Vicky S Khattar, Snigdha Devane, Ankit Jain (India)

169. Surgical Management of Thyroglossal Duct Malignancy **1470**
Vicky S Khattar, Bachi T Hathiram, Snigdha Devane, Sanket Dani (India)

170. Maxillectomy **1475**
Jagadish Tubachi, Rajashekhar Myageri, Amit Magadum, Prashant Patil
Jignesh Mewa, Rashmi Prashant (India)

171. The Surgical Technique of Mandibular Swing **1482**
RG Aiyer, Rahul Gupta (India)

172. The Surgical Technique of Maxillary Swing **1487**
RG Aiyer, Rahul Gupta (India)

173. Radical Neck Dissection **1493**
Biswajyoti Hazarika (India)

174. Parapharyngeal Space Tumors **1500**
Ryan Brown, Yadranko Ducic (USA)

175. Parapharyngeal Space Tumors **1513**
Gilad Horowitz, Dan M Fliss (Israel)

176. Parapharyngeal Space Tumors **1526**
Rajendra Metgudmath (India)

177. Treatment Decision in the Management of Laryngeal Cancer: An Overview **1532**
Sultan A Pradhan, R Kannan (India)

178. Transoral LASER Assisted Open Vertical Partial Laryngectomy **1536**
Jagadish Tubachi, Karthikeyan Balasubramanian, Sultan A Pradhan (India)

179. Supracricoid Partial Laryngectomy: The Second Coming **1543**
Biswajyoti Hazarika (India)

180. Near-Total Laryngectomy **1549**
Prathamesh S Pai, Sultan A Pradhan (India)

181. Total Laryngectomy **1556**
Arash Mohebati, Jatin P Shah (USA)

182. Voice Rehabilitation after Laryngectomy **1563**
Audrey B Erman, Daniel G Deschler (USA)

183. Complications in Head and Neck Surgery **1569**
Prathamesh S Pai (India)

184. Principles of Skull Base Reconstruction after Ablative Head and Neck Cancer Surgery **1576**
Joseph Curry, Zoukaa Sargi (USA)

185. Oral Cavity and Oropharyngeal Reconstruction **1584**
Alberto Deganello, Sabino Russo, Oreste Gallo (Italy)

186. Free Radial Forearm Flap **1610**
Alberto Deganello, Gianni Gitti, Giampiero Parrinello (Italy)

187. Rectus Abdominis Free Flap **1614**
Alberto Deganello, Giampiero Parrinello, Sabino Russo (Italy)

188. Free Fibula Osteocutaneous Flap **1619**
Alberto Deganello, Giampiero Parrinello (Italy)

189. Free and Pedicled Latissimus Dorsi Flap **1624**
Alberto Deganello, Sabino Russo, Guglielmo Larotonda (Italy)

190. Infrahyoid Fascio-Myocutaneous Flap **1628**
Alberto Deganello (Italy), Gilles Dolivet (France)

191. Temporal Myofascial Flap **1633**
Alberto Deganello, Sabino Russo, Giampiero Parrinello (Italy)

192. Pectoralis Major Flap **1638**
Alberto Deganello, Gianni Gitti, Giampiero Parrinello (Italy)

193. Facial Artery Musculomucosal Flap **1641**
Alberto Deganello, Giampiero Parrinello (Italy)

194. Transoral Robotic Surgery—Radical Tonsillectomy **1643**
Rohan R Walvekar, Celeste C Gary, Jonathan E Sorrel (USA)

195. Transoral Robotic Surgery for Ranula Excision **1649**
Rohan R Walvekar, Celeste C Gary, Adele P Williams, Peter D Oliver (USA)

Index *I-i-xxvi*