

CONTENTS

List of Contributors x

Acknowledgements xvi

About the Companion Website xvii

PART ONE: DENTOALVEOLAR AND IMPLANT SURGERY

1. ANATOMIC AND LEGAL CONSIDERATIONS IN DENTOALVEOLAR SURGERY 3
Pooja Gangwani, Antonia Kolokythas, and Michael Miloro
2. EXPOSURE AND BONDING OF AN IMPACTED TOOTH 12
Kevin Austin, Neil C. Kanning, and Christopher J. Haggerty
3. PRE-PROSTHETIC SURGERY 28
Daniel Clifford and Christopher J. Haggerty
4. EXTRACTION SITE (SOCKET) PRESERVATION 37
Dale J. Misiek
5. ONLAY BONE GRAFTING 41
Christopher J. Haggerty
6. SINUS LIFT GRAFTING 58
Dale J. Misiek and Christopher J. Haggerty
7. ZYGOMATIC IMPLANTS 72
Luis Vega and Patrick J. Louis
8. IMMEDIATE IMPLANT PLACEMENT 78
Brett M. Sullivan
9. CONE BEAM CT GUIDED DENTAL IMPLANT TREATMENT PLANNING, SURGERY,
AND TEMPORARY PROSTHESIS PLACEMENT 91
Christopher J. Haggerty
10. REMOVABLE RESTORATION OPTIONS OF THE EDENTULOUS ARCH 128
Christopher J. Haggerty
11. IMMEDIATE IMPLANT-SUPPORTED RESTORATION OF THE EDENTULOUS ARCH 147
Jonathan X. Esquivel, Karen Bruggers, and Robert M. Laughlin
12. IMPLANT COMPLICATIONS 157
Michael S. Block

PART TWO: INFECTION

13. REVIEW OF SPACES 173
Matthew W. Hearn, Christopher T. Vogel, Robert M. Laughlin, and Christopher J. Haggerty
14. OSTEOMYELITIS 204
Matthew W. Hearn, Christopher T. Vogel, Thaer A. Daifallah, Robert M. Laughlin, and Christopher J. Haggerty

15. SURGICAL MANAGEMENT OF MEDICATION-RELATED OSTEONECROSIS OF THE JAWS (MRONJ) 217
Eric R. Carlson

PART THREE: MAXILLOFACIAL TRAUMA SURGERY

16. SURGICAL MANAGEMENT OF THE AIRWAY 231
Thaer A. Daifallah and Christopher J. Haggerty
17. MANDIBULAR FRACTURES 254
Christopher J. Haggerty
18. LE FORT FRACTURES 301
Shahid R. Aziz
19. ISOLATED ZYGOMA AND ZYGOMATICOMAXILLARY COMPLEX (ZMC) FRACTURES 307
Christopher J. Haggerty
20. ORBITAL FRACTURES 320
Michael R. Markiewicz, Christopher T. Vogel, Matthew Sniegowski, Christopher J. Haggerty, and R. Bryan Bell
21. NASAL FRACTURES 348
Hani F. Braidy, Vincent B. Ziccardi, and Christopher J. Haggerty
22. FRONTAL SINUS FRACTURES 359
Gabriel C. Tender, Arnett Klugh, III, Min S. Park, Robert M. Laughlin, and Christopher J. Haggerty
23. PANFACIAL AND NASO-ORBITO-ETHMOID (NOE) FRACTURES 375
Celso F. Palmieri Jr, Andrew T. Meram, and Nathan Yang
24. MAXILLOFACIAL GUNSHOT WOUNDS (GSW) 392
Jayson Terres and Christopher J. Haggerty
25. SOFT TISSUE INJURIES 406
Nicholas Callahan, Antonia Kolokythas, Robert A. Nadeau, Christopher J. Haggerty, and Michael Miloro

PART FOUR: ORTHOGNATHIC AND CRANIOFACIAL SURGERY

26. VIRTUAL SURGICAL PLANNING (VSP) IN ORTHOGNATHIC SURGERY 429
Adam Fagin and Brian B. Farrell
27. MAXILLARY OSTEOTOMIES 438
Brian B. Farrell and Andrew Megison
28. MANDIBULAR OSTEOTOMIES 456
Brian B. Farrell and Michelle Zoccolillo
29. ATYPICAL MANDIBULAR OSTEOTOMIES 478
Wendall Mascarenhas and Brian B. Farrell
30. GENIOPLASTY (ANTERIOR SLIDING OSTEOTOMY) AND GENIOGLOSSUS ADVANCEMENT 493
Peter C. Dennis and Brian B. Farrell
31. MAXILLARY AND MIDFACE DISTRACTION 501
Jeffrey N. James, Chris Ibrahim, Jessica Anderson, and Lester Machado
32. DENTOALVEOLAR CLEFT REPAIR 510
Joshua A. Stone, Michael Oh, and Jeremiah Jason Parker
33. CLEFT PALATE REPAIR (PALATOPLASTY) 517
Jeffrey N. James and Alexander Faigen

34. CLEFT LIP REPAIR (CHEILORHINOPLASTY) 525
George Zakhary and Sloan Rehder
35. ORTHOGNATHIC SURGERY IN THE CLEFT PATIENT: LE FORT I OSTEOTOMY 533
Joshua A. Stone and John T. Brothers
36. CRANIOSYNOSTOSIS AND VAULT SURGERY 547
Jeffrey N. James

PART FIVE: TEMPOROMANDIBULAR JOINT SURGERY

37. TEMPOROMANDIBULAR JOINT IMAGING 563
Joshua A. Stone and Christopher J. Haggerty
38. ARTHROCENTESIS OF THE TEMPOROMANDIBULAR JOINT 569
Robert M. Laughlin and Christopher J. Haggerty
39. ARTHROSCOPIC ARTHROPLASTY OF THE TEMPOROMANDIBULAR JOINT 572
Joseph P. McCain and Reem Hamdy Hossameldin
40. ALLOPLASTIC RECONSTRUCTION (TMJ CONCEPTS) OF THE TEMPOROMANDIBULAR JOINT AND ASSOCIATED STRUCTURES 582
John N. Kent, Christopher J. Haggerty, Billy Turley, and Robert M. Laughlin
41. AUTOGENOUS RECONSTRUCTION OF THE TEMPOROMANDIBULAR JOINT 604
John N. Kent and Christopher J. Haggerty
42. EMINECTOMY 610
Joseph P. McCain and Reem Hamdy Hossameldin
43. CONCOMITANT TEMPOROMANDIBULAR JOINT REPLACEMENT AND ORTHOGNATHIC SURGERY 619
Thaer A. Daifallah and Daniel Margolis

PART SIX: FACIAL COSMETIC SURGERY

44. INNOVATIONS IN FACIAL COSMETIC SURGERY 639
Kayvan Fathimani, Jon D. Perenack, and Anne Scruggs
45. NEUROMODULATOR (BOTOX) MANAGEMENT OF FACIAL RHYTIDS 648
Waheed V. Mohamed
46. SOFT TISSUE VOLUMIZERS 655
Waheed V. Mohamed
47. CHEMICAL PEELS 661
Jon D. Perenack, Kayvan Fathimani, and Brian W. Kelley
48. FACIAL CO₂ LASER RESURFACING 667
Matthew R. Hlavacek
49. BROW LIFT 674
Jon D. Perenack, Kayvan Fathimani, and Earl Peter Park
50. RHYTIDECTOMY 690
Jennifer Elizabeth Woerner and Ghali E. Ghali
51. UPPER AND LOWER LID BLEPHAROPLASTY AND TEAR TROUGH IMPLANTS 699
Dustin M. Heringer and L. Angelo Cuzalina
52. RHINOPLASTY 715
Jon D. Perenack, Kayvan Fathimani, and Shahrouz Zarrabi

PART SEVEN: MAXILLOFACIAL PATHOLOGY SURGERY

- 53. BENIGN CYSTS OF THE JAWS 741
Christopher M. Harris, Christopher J. Haggerty, and Thaer A. Daifallah
- 54. BENIGN TUMORS OF THE JAWS 752
Christopher M. Harris, Christopher J. Haggerty, and Thaer A. Daifallah
- 55. PALATAL PATHOLOGY 766
Jordan Gigliotti, Earl Peter Park, and Anthony B. Morlandt
- 56. OCULAR ENUCLEATION AND EVISCERATION 774
Mark A. Welch and Eric Murnan
- 57. TRANSCERVICAL STYLOIDECTOMY AND THE FORGOTTEN TRIANGLES OF THE NECK 782
Mark A. Welch and Andrew Megison
- 58. SURGICAL MANAGEMENT OF THE NECK 787
Earl Peter Park and Anthony B. Morlandt
- 59. SURGICAL MANAGEMENT OF LIP CANCER 802
Terence E. Johnson, Michael Grau Jr, Craig Salt, and Robert M. Laughlin
- 60. SALIVARY GLAND PATHOLOGY 806
Michael Grau Jr, Markus S. Hill, Billy Turley, Vincent Slovan, Christopher J. Haggerty, and Robert M. Laughlin

PART EIGHT: MAXILLOFACIAL RECONSTRUCTIVE SURGERY

- 61. CLOSURE OF ORAL-ANTRAL COMMUNICATIONS 831
Brent B. Ward
- 62. ANTERIOR ILIAC CREST BONE GRAFT 841
Joshua A. Stone and Michael Carson
- 63. POSTERIOR ILIAC CREST BONE GRAFT 849
Patrick B. Morrissey, Robert A. Nadeau, and Eric P. Hofmeister
- 64. PROXIMAL TIBIAL BONE GRAFT 855
Nathan Steele and J. Michael Ray
- 65. PARIETAL BONE GRAFT 858
Christopher J. Haggerty
- 66. COSTOCHONDRAL GRAFT 863
Brian W. Kelley and Christopher J. Haggerty
- 67. TONGUE FLAP RECONSTRUCTION OF LIP DEFECTS 867
Jayson J. Terres and Aujin Kim
- 68. PARAMEDIAN FOREHEAD FLAP 873
Chris S. Kim, Eric Murnan, and Earl Peter Park
- 69. PECTORALIS MAJOR MYOCUTANEOUS FLAP 879
Eric R. Carlson and Andrew W.C. Lee
- 70. LATISSIMUS DORSI FREE FLAP 889
Beomjune Kim, Waleed Zaid, and Matthew R. Radant
- 71. MICROVASCULAR PRINCIPLES 895
Christopher M. Harris, Allen O. Mitchell, and Robert M. Laughlin
- 72. FREE VASCULARIZED FIBULA GRAFT HARVEST 901
Earl Peter Park and Robert M. Laughlin

73. ANTEROLATERAL THIGH (ALT) PERFORATOR FREE FLAP 915
Waleed Zaid and Beomjune Kim

74. RADIAL FOREARM FREE FLAP 920
Christopher M. Harris and Remy H. Blanchaert

75. NERVE HARVEST AND REPAIR 924
Thaer A. Daifallah, Andrew B.G. Tay, and John R. Zuniga

APPENDICES (all Appendices online only)

APPENDIX 1: NEUROSENSORY MAPPING CHART
Pooja Gangwani, Antonia Kolokythas, and Michael Miloro

APPENDIX 2: ANTIBIOTIC CHART
Yousef A. Hammad, Timothy W. Neal, Joshua A. Stone, Matthew W. Hearn, Christopher T. Vogel, Robert M. Laughlin, and Christopher J. Haggerty

APPENDIX 3: ANTIRESORPTIVE CHART
Timothy W. Neal, Yousef A. Hammad, and Joshua A. Stone

APPENDIX 4: CRANIOFACIAL SURGERY TIMING CHART
Yousef A. Hammad, Timothy W. Neal, and Joshua A. Stone

APPENDIX 5: NEUROTOXIN TREATMENT LOG
Waheed V. Mohamed

APPENDIX 6: DERMAL FILLER TREATMENT LOG
Waheed V. Mohamed

APPENDIX 7: PATHOLOGY CHART
Michael J. Isaac, Patrick Lucaci, Robert M. Laughlin, and Christopher J. Haggerty

APPENDIX 8: BLOOD THINNER (ANTICOAGULANT) CHART
Yousef A. Hammad, Timothy W. Neal, and Joshua A. Stone

Index 944