This exciting new book expertly describes key features of vertical and horizontal ridge augmentation, containing chapters on: the surgical anatomy of the floor of the mouth; the steps involved in mandibular ridge augmentation, including the modified lingual flap and the protection of the mental nerve during flap advancement; anterior maxillary ridge augmentation, including eight chapters devoted to the key steps in this process from papilla reconstruction of single tooth defects to papilla regeneration after vertical ridge augmentation in multiple missing teeth; a step-by-step description of severely resorbed complete maxillary reconstruction using guided bone regeneration (GBR) and simultaneous sinus augmentation, with a separate chapter on growth factor applications using BMP-2 and PDGF in conjunction with newly developed GBR perforated membranes; and complications of membrane exposure and the management of different degrees of graft infections. The user-friendly format is underscored by the unique “Lessons Learned” sections, which reflect on most of the cases described, making suggestions about what could have been done differently to achieve even better results. These sections contribute to making this book a useful and honest account of the clinical practice of ridge augmentation with GBR.

Contents
Chapter 01. Introduction
• Acknowledgments

Chapter 02. Surgical setup and patient preparation
Patient selection • Patient preparation for surgery • Medications • The surgical room • Postsurgical care and suture removal • References

Chapter 03. Membranes and graft materials
Scientific documentation of horizontal GBR using different membranes • Scientific documentation of vertical GBR using different membranes • Grafting materials used for GBR • References

Chapter 04. The intraoral harvesting of autogenous bone
Bone harvesting from the mandibular symphysis • Bone harvesting from the mandibular ramus • Reference

Chapter 05. The surgical anatomy of the floor of the mouth
Musculature of the floor of the mouth and the tongue • Arterial supply • Anatomical variations of floor of the mouth
vascularization • Nerves • Salivary glands • Conclusion • References

Chapter 06. Principles of vertical and horizontal ridge augmentation in the posterior mandible
Flap design • Preparation of the recipient site • Membrane adaptation • Mobilization of the lingual flap: the modified lingual flap advancement • Buccal flap advancement • Flap closure • Expected healing after posterior mandibular surgery • Treatment of more advanced defects • Conclusion • References

Chapter 07. Vertical ridge augmentation
Distraction osteogenesis • Onlay bone grafting • Scientific documentation of vertical GBR with different grafting materials • Conclusion • References

Chapter 08. Vertical ridge augmentation in the posterior mandible
Important clinical factors for consideration • Conclusion • References

Chapter 09. Anterior mandibular ridge augmentation
The buccal flap • The lingual flap • Preparation of the recipient site • Membrane adaptation and stabilization • Buccal flap advancement • Mobilization of the lingual flap • Flap closure • Conclusions • Reference

Chapter 10. Combined posterior maxillary and ridge augmentation for partially edentulous patients
Flap design • Sinus augmentation • References

Chapter 11. Horizontal ridge augmentation: the sausage technique
Case series and representative case using polyglycolic acid-trimethylene carbonate membranes • The use of a natural collagen membrane • Case series and representative cases using a natural collagen membrane • Representative cases with long-term follow-up in different regions using the sausage technique • Learning curve versus the well-developed sausage technique 2.0 • Conclusion • References

Chapter 12. Ridge augmentation in the anterior maxilla
• References

Chapter 13. Papilla reconstruction in conjunction with vertical augmentation in single tooth defects
Case examples and lessons learned • Conclusions • References • Suggested additional reading

Chapter 14. Surgical management of significant anterior maxillary vertical ridge defects: the classification of anterior maxillary vertical defects
Anterior maxillary vertical ridge augmentation (AMVRA) flap design classification • References

Chapter 15. Lateralization of the nasopalatine nerve: the palatal
The palatal flap • Clinical evaluation • References

Chapter 16. Mucogingival surgery after bone augmentation
Representative case • The adapted soft tissue surgery • Representative case • Long-term results • Conclusion • References

Chapter 17. New perspectives in mucogingival surgery after ridge augmentation
Representative cases and clinical data • References

Chapter 18. New perspectives in crestal bone preservation after ridge augmentation
Case series: long-term results • Representative case and lessons learned • Conclusion • Reference

Chapter 19. The development and maintenance of a positive gingival architecture using single implants in multiple missing teeth • References

Chapter 20. Reconstruction of the edentulous resorbed maxilla
Conclusions • References

Chapter 21. Complications of bone ridge augmentation
Complications of healing • Postoperative infection • Nerve injury • Complications during implant placement into the newly formed ridge • Long-term biological complications of implants • Conclusion • References

Chapter 22. The use of growth factors
Recombinant human platelet-derived growth factor • Bone morphogenetic proteins • Conclusions • References

Index
Permissions from books and journals

Fachgebiet(e): Implantologie