

1. Record Nr.	UNINA9910830341503321
Titolo	Essential techniques of alveolar bone augmentation in implant dentistry : a surgical manual // edited by Len Tolstunov
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-Blackwell, , 2023
ISBN	1-119-82735-3 1-119-82733-7
Edizione	[Second edition.]
Descrizione fisica	1 online resource (604 pages)
Disciplina	617.693
Soggetti	Dental implants Osseointegrated dental implants
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover Page -- Dedication Page -- Title Page -- Copyright Page -- Contents -- Preface -- Acknowledgments -- About the Author and the Editor -- Contributors -- About the Companion Website -- Section I: Introduction: Essential Clinical Knowledge -- CHAPTER 1 Bone Biology and Wound Healing -- Chapter 1.1 Bone Biology -- BONE TISSUE ANATOMICAL ASPECTS -- MAIN CELLULAR COMPONENTS -- COMPOSITION -- STRUCTURE -- BONE REMODELING AND HEALING -- BONE REMODELING -- BONE HEALING -- WHAT CAN COMPROMISE BONE HEALING? -- BONE ANGIOGENESIS -- BIOMATERIALS FOR BONE REGENERATION -- BONE GRAFTS -- SYNTHETIC HYDROXYAPATITE-BASED BIOMATERIALS -- POLYMERS -- BONE MORPHOGENETIC PROTEIN-2 -- PLATELET CONCENTRATES -- OSSEOINTEGRATION -- PHASES OF OSSEOINTEGRATION -- BONE LOADING -- THRESHOLD STRAIN -- REFERENCES -- Chapter 1.2 Wound Healing -- OVERVIEW OF THE WOUND HEALING PROCESS -- PHASES OF WOUND HEALING -- WHICH FACTORS CAN LEAD TO IMPAIRED HEALING? -- MAIN TYPES OF WOUND HEALING -- ORAL SOFT TISSUE WOUND HEALING -- ORAL SOFT TISSUE SPECIAL FEATURES: INTRINSIC DIFFERENCES BETWEEN ORAL MUCOSA AND SKIN -- SCAR AND SCARLESS WOUND HEALING IN ORAL SOFT TISSUES -- EARLY WOUND HEALING SCORE: A METHOD TO ASSESS PRIMARY INTENTION WOUND HEALING -- REFERENCES -- CHAPTER 2 Applied Surgical Anatomy of the Jaws -- MAXILLA:

SURGICAL ANATOMY -- SURGICAL ACCESS TO THE MAXILLARY SINUS -- MUSCLES ATTACHED TO THE MAXILLA OF SURGICAL IMPORTANCE -- SENSORY INNERVATION OF THE MAXILLA -- ARTERIAL SUPPLY TO THE MAXILLA -- VENOUS DRAINAGE FROM THE MAXILLA -- LYMPHATIC DRAINAGE FROM THE MAXILLA -- MANDIBLE: SURGICAL ANATOMY -- MUSCLE ATTACHMENT TO THE MANDIBLE OF SURGICAL IMPORTANCE TO ORAL IMPLANTOLOGISTS -- INNERVATION OF THE LOWER JAW AND ASSOCIATED STRUCTURES -- BLOOD SUPPLY TO THE MANDIBLE -- SUMMARY AND CONCLUSIONS -- ACKNOWLEDGMENTS -- REFERENCES.

CHAPTER 3 Radiographic Evaluation of the Alveolar Ridge in Implant Dentistry: CBCT Technology -- THE ROLE OF RADIOGRAPHY IN IMPLANT DENTISTRY -- PERIAPICAL RADIOGRAPHY -- PANORAMIC RADIOGRAPHY -- OCCLUSAL RADIOGRAPHY -- CONE BEAM COMPUTED TOMOGRAPHY -- ANATOMICAL AND ARCHITECTURAL CONSIDERATIONS FOR TREATMENT PLANNING -- ANTERIOR MAXILLA -- NASOPALATINE (INCISIVE) CANAL -- CANALIS SINUOSUS -- ANTERIOR NASAL SPINE AND NASAL FLOOR -- PATTERN OF RIDGE ATROPHY IN THE ANTERIOR MAXILLA -- POSTERIOR MAXILLA -- MAXILLARY SINUS -- GREATER PALATINE FORAMEN -- PATTERN OF RIDGE ATROPHY IN THE POSTERIOR MAXILLA -- ANTERIOR MANDIBLE -- MANDIBULAR INCISIVE CANAL -- LINGUAL FORAMEN AND LATERAL CANALS -- GENIAL TUBERCLES -- PATTERN OF RIDGE ATROPHY IN THE ANTERIOR MANDIBLE -- POSTERIOR MANDIBLE -- INFERIOR ALVEOLAR (MANDIBULAR) CANAL -- MENTAL FORAMEN -- SUBMANDIBULAR AND SUBLINGUAL FOSSAE -- LINGUAL NERVE -- PATTERN OF RIDGE ATROPHY IN THE POSTERIOR MANDIBLE -- IMAGING CONSIDERATIONS FOR CBCT UTILIZATION -- TECHNICAL CONSIDERATIONS -- BONE QUALITY AND BONE DENSITY ASSESSMENT -- PATHOLOGY DETECTION -- RADIATION DOSE -- INTERACTIVE IMPLANT TREATMENT PLANNING -- SURGICAL GUIDES -- NEWER TECHNOLOGICAL ADVANCES -- REFERENCES -- CHAPTER 4 Prosthetic Comprehensive Oral Evaluation in Implant Dentistry -- INITIAL EVALUATION -- DIAGNOSTIC WORK-UP -- DIAGNOSIS AND TREATMENT PLAN -- SMILE EVALUATION -- DIAGNOSTIC CASTS AND WAX-UP -- RADIOGRAPHIC IMPLANT GUIDE -- CLINICAL APPLICATIONS -- PROSTHETIC EVALUATION AND TREATMENT PLANNING OF PARTIALLY EDENTULOUS PATIENTS IN THE ESTHETIC ZONE -- PROSTHETIC EVALUATION AND TREATMENT PLANNING OF PARTIALLY EDENTULOUS PATIENTS IN THE POSTERIOR DENTITION -- PROSTHETIC EVALUATION AND TREATMENT PLANNING OF THE COMPLETELY EDENTULOUS PATIENT -- REFERENCES -- CHAPTER 5 Alveolar Ridge Defects and Bone Augmentation Techniques: Surgical Algorithm.

RIDGE PRESERVATION AND RIDGE AUGMENTATION -- RIDGE PRESERVATION -- RIDGE AUGMENTATION -- BONE DEFECTS, BONE GRAFTS, AND BONE GRAFTING TECHNIQUES -- EXTRAOSSEOUS VERSUS INTRAOSSEOUS ALVEOLAR BONE DEFECTS -- ONLAY VERSUS INLAY ALVEOLAR BONE GRAFTS -- STATIC VERSUS DYNAMIC SURGICAL TECHNIQUES -- RISK FACTORS IN BONE AUGMENTATION PROCEDURES IN IMPLANT DENTISTRY -- MAIN SURGICAL TECHNIQUES OF BONE AUGMENTATION IN IMPLANT DENTISTRY -- GUIDED BONE REGENERATION -- BLOCK BONE GRAFTING -- RIDGE-SPLIT EXPANSION PROCEDURE -- DISTRACTION OSTEOGENESIS -- ALTERNATIVE SURGICAL TECHNIQUES -- GRAFT HEALING AND VASCULARIZATION -- ALVEOLAR BONE AUGMENTATION DECISION TREE ALGORITHM -- ALVEOLAR BONE CLASSIFICATION BY DEFICIENCY (ABCD) - THE OLSTUNOV CLASSIFICATION -- EXAMPLES OF THE TOLSTUNOV CLASSIFICATION -- CONCLUSION -- REFERENCES -- CHAPTER 6 Incision Design, Soft Tissue Flaps, and Wound Closure in Alveolar Bone

Augmentation Surgeries in Implant Dentistry -- INCISION DESIGN IN ALVEOLAR BONE AUGMENTATION SURGERIES -- SOFT TISSUE FLAPS IN ALVEOLAR BONE AUGMENTATION SURGERIES -- VASCULARITY PATTERNS -- FLAP DESIGNS -- REFLECTION OF THE MUCOPERIOSTEUM -- PREPARING FOR WOUND CLOSURE -- TENSION RELEASE INCISIONS -- WOUND CLOSURE IN ALVEOLAR BONE AUGMENTATION SURGERIES -- PRINCIPLES OF SUTURING -- TYPES OF SUTURES -- COMPLICATIONS -- NERVE INJURY -- BLEEDING -- WOUND DEHISCENCE -- CONCLUSION -- REFERENCES -- CHAPTER 7 Biological Rationale of the Surgical Procedure: Bone Augmentation -- GRAFT REVASCULARIZATION SOURCES -- CONCLUSION -- ACKNOWLEDGMENT -- REFERENCES -- Section II: Ridge Preservation -- CHAPTER 8 Bone Grafting Materials for Bone Preservation and Augmentation in Implant Dentistry: Surgical Algorithm -- AUTOGENOUS BONE GRAFTS -- ALLOGRAFTS -- XENOGRAFTS -- ALLOPLASTS -- CALCIUM PHOSPHATES -- TRICALCIUM PHOSPHATE -- HYDROXYAPATITE -- CONCLUSION -- REFERENCES. CHAPTER 9 Guided Bone Regeneration for Extraction Sockets: Ridge Preservation -- REVIEW OF THE LITERATURE -- SURGICAL TECHNIQUE -- CASE REPORTS -- CASE 1 -- CASE 2 -- DISCUSSION -- CONCLUSION -- ACKNOWLEDGMENTS -- REFERENCES -- CHAPTER 10 Platelet-Rich Fibrin for Bone Augmentation in Implant Dentistry -- THE EVOLUTION (HISTORY) OF PLATELET-RICH FIBRIN -- LEUKOCYTE AND PLATELET-RICH FIBRIN -- PROTOCOLS TO PRODUCE PLATELET-RICH FIBRIN VIA HORIZONTAL CENTRIFUGATION -- CLINICAL USES OF PLATELET-RICH FIBRIN IN BONE AUGMENTATION -- USE OF PLATELET-RICH FIBRIN IN EXTRACTION SITE MANAGEMENT -- PLATELET-RICH FIBRIN FOR GUIDED BONE REGENERATION -- PLATELET-RICH FIBRIN FOR SINUS GRAFTING PROCEDURES -- ADVANTAGES OF THE USE OF PLATELET-RICH FIBRIN -- DISCUSSION AND FUTURE RESEARCH -- CONCLUSION -- REFERENCES -- Section III: Ridge Augmentation: Horizontal -- CHAPTER 11 Guided Bone Regeneration with Resorbable and Non-resorbable Membranes for (Mainly) Horizontal Alveolar Bone Augmentation in Implant Dentistry -- APPLIED SURGICAL ANATOMY -- INDICATIONS AND CONTRAINDICATIONS -- INDICATIONS -- CONTRAINDICATIONS -- BASIC PRINCIPLES OF GUIDED BONE REGENERATION -- PRIMARY WOUND CLOSURE -- ANGIOGENESIS -- SPACE MAINTENANCE -- WOUND STABILITY -- DESCRIPTION OF SURGICAL TECHNIQUE -- INCISIONS AND FLAP DESIGN -- FLAP ELEVATION AND SITE PREPARATION -- BUCCAL FLAP RELEASE -- HARVESTING OF BONE -- FLAP CLOSURE TECHNIQUE -- CASE REPORTS -- CASE 1 -- CASE 2 -- CASE 3 -- CASE 4 -- CASE 5 -- CASE 6 -- POST-OPERATIVE CARE -- COMPLICATIONS -- DISCUSSION -- CONCLUSION -- REFERENCES -- CHAPTER 12 Autogenous Block Bone Graft for Horizontal Ridge Augmentation in Implant Dentistry -- RECIPIENT SITE ANALYSIS -- BLOCK BONE AUGMENTATION TECHNIQUES -- ONLAY BONE GRAFTING -- GUIDED BONE REGENERATION AND ONLAY BONE BLOCK GRAFTING -- CORTICAL AUTOGENOUS TENTING. REGENERATIVE TECHNIQUES IN BONE GRAFTING -- PLATELET DERIVATIVES -- MESENCHYMAL STEM CELLS -- CASE PRESENTATIONS -- CASE 1 -- CASE 2 -- CASE 3 -- CASE 4 -- CASE 5 -- CONCLUSION -- REFERENCES -- CHAPTER 13 Allogenic Block Graft as an Alternative to Autogenous Block Graft for Augmentation of Horizontal Alveolar Bone Defects in Implant Dentistry -- INDICATIONS FOR ALLOGENIC BLOCK GRAFTS -- DISTINGUISHING FEATURES OF IRRADIATED ALLOGENIC BLOCK GRAFTS -- MATERIALS AND METHODS -- PATIENT SELECTION CRITERIA -- PRE-OPERATIVE CONSIDERATIONS -- TECHNIQUE OF ALLOGENIC BLOCK GRAFT FOR A SINGLE ANTERIOR TOOTH -- FLAP DESIGN -- PREPARATION OF THE RECIPIENT BONE BED

FOR DECORTICATION AND PERIOSTEAL RELEASE INCISION (SCORING) --  
CONFORMING THE BLOCK -- FIXATION OF THE BLOCK --  
MANAGEMENT OF VOIDS AND COVERAGE -- RE-ENTRY FOR IMPLANT  
PLACEMENT -- TECHNIQUE OF ALLOGENIC BLOCK GRAFT FOR  
ANTERIOR SEXTANT -- PRE-OPERATIVE PLANNING -- SURGICAL  
PROCEDURE -- PREPARATION OF THE RECIPIENT BED AND ADAPTATION  
OF THE ALLOGENIC BLOCK -- POST-OPERATIVE ASSESSMENT AND  
SURGICAL RE-ENTRY -- BIOPSY INTERPRETATION -- IMPLANT  
PLACEMENT AND COMPLETION OF PROSTHETIC REHABILITATION --  
TECHNIQUE OF ALLOGENIC BLOCK GRAFT FOR POSTERIOR SEXTANT --  
PRE-OPERATIVE PLANNING -- SURGICAL PROCEDURE -- PREPARATION  
OF THE RECIPIENT BED AND ADAPTATION OF THE ALLOGENIC BLOCK --  
POST-OPERATIVE ASSESSMENT AND SURGICAL RE-ENTRY -- BIOPSY  
INTERPRETATION -- IMPLANT PLACEMENT AND COMPLETION OF  
PROSTHETIC REHABILITATION -- DISCUSSION -- CONCLUSION --  
ACKNOWLEDGMENT -- REFERENCES -- CHAPTER 14 Ridge-Split  
Expansion Procedure for Horizontal Bone Augmentation in Implant  
Dentistry -- Chapter 14.1 Diagnosis and Treatment Planning --  
HISTORY -- DIAGNOSIS AND TREATMENT PLANNING -- PATIENT (HOST)  
SELECTION -- ALVEOLAR RIDGE DEFECT ANALYSIS AND  
CLASSIFICATION -- DIAGNOSTIC WORK-UP -- CONE BEAM COMPUTED  
TOMOGRAPHY.  
SURGICAL STENT.

---