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## KEY=WITH - LAUREL SMITH

## PERIIMPLANT SOFT TISSUE VOLUME CHANGES AFTER CONNECTIVE TISSUE GRAFTING. THE AUTOLOGOUS CONNECTIVE TISSUE GRAFT VS. THE PORCINE COLLAGEN MATRIX. A CLINICAL FOLLOW-UP CASE SERIES

**BackgroundThe thickness of peri-implant soft tissue is very important in the high risk esthetic area. Especially in advanced cases, i.e. high lipline, thin gingival biotype, loss of soft or hard tissues or bony atrophy, soft tissue grafting can be indicated in order to avoid gingivalrecession and periimplantitis. Gold standard is the autologous subepithelial connective tissue graft (SCTG) of the palate. To avoidtissue removal, porcine collagen matrices have been introduced as possible alternatives.AimThis clinical study evaluates a porcine collagen matrix (CM) in comparison to the subepithelial connective tissue graft (SCTG) fromthe palate for soft tissue thickening around implants with a 3D follow-up.Material and MethodsPatients (n=12) were included after implant placement in the esthetic area with buccal tissue**

**deficit. At the time point of implantexposure, buccal soft tissue were either thickened with the CM (n=6) or the SCTG (n=6). Impressions with a scan optimizedvinylsiloxanether (Identiumu00ae Scan, Kettenbach GmbH, Eschenburg, Germany) were taken before augmentation (i1), after surgery(i2), after 10 (i3), 30 (i4), 90 (i5) and 180 days (i6). The impressions were optically scanned with a high precision scanner (Atos IITriple Scan, GOM GmbH, Braunschweig, Germany). The acquired data was visualized and superimposed with the ATOSProfessional software (GOM GmbH, Braunschweig, Germany). The region of interest (ROI) was defined at the buccal area from themargin of the suprastructure to the mucogingival junction at the implant site and to the 2 adjacent teeth (primary outcome variable:volume increase in mm3; secondary outcome variables: volume increase in%, mean and maximum thickness increases in mm.ResultsThe evaluation of the region of interest at the different time points showed that there was a volume increase in both groups aftersurgery. After ten days, volume further increased in the SCTG group (183.88mm3 ≙ 139.03%) compared to the CM group(80.74mm3 ≙ 71.03%). This was a thickness increase (mm) of 2.31mm in the SCT group and 1.12mm in the CM group.Volume and thickness decreased in both groups over time (6 months: SCTG: 61.75mm3 ≙ 43.61%; CM: 19.56mm3 ≙18.24%). This resulted in a thickness increase of 0.3mm in the CM and 0.8 mm in the SCTG group with statistically significantdifference after 6 months.ConclusionAfter 6 months, soft tissues thickness gain with the use of the porcine collagen matrix was significantly lower than with the use of theautologous subepithelial connective tissue graft. The SCTG still remains the gold standard for such procedures.**

## PLASTIC-ESTHETIC PERIODONTAL AND IMPLANT SURGERY

## A MICROSURGICAL APPROACH

**Quintessence Publishing Company "In this book, the authors blend scientific knowledge and practical experience to provide a comprehensive overview of the principles, indications, and clinical techniques of plastic-esthetic periodontal and implant microsurgery, focusing especially on minimal soft tissue trauma and maximally perfect wound closure. Microsurgery provides clinically relevant advantages over conventional macrosurgical concepts for regenerative and plastic-esthetic periodontal surgery, especially in the all-important esthetic zone. The microsurgical principles and procedures presented in the book are explained step-by-step in meticulously illustrated case examples with large, exquisite images. Each case example also includes an illustrated armamentarium of the materials and instruments necessary for the practical implementation of the microsurgical procedure. The book concludes with instructions on how to manage all major complications for each procedure."--Publisher.**

## IMPLANTS IN THE AESTHETIC ZONE

## A GUIDE FOR TREATMENT OF THE PARTIALLY EDENTULOUS PATIENT

**Springer This book concisely elucidates the science underlying implant treatment in the aesthetic zone in partially edentulous patients and clearly describes the techniques and protocols used by world-leading experts in the field. The book is divided into four parts that address treatment planning; site preparation (hard and soft tissue augmentation); immediate implant placement and provisional restoration; and the design, fabrication, and delivery of the definitive implant prosthesis. Complex cases of this nature present a significant challenge to even the most well informed and experienced of doctors. Implants in the Aesthetic Zone has been specifically crafted to meet all the needs of the clinician involved in their management, providing a reliable road map for interdisciplinary implant treatment in clinical practice. The authors have been carefully selected from a wide range of fields for their expertise in particular areas of implant science or treatment.**

## DENTOALVEOLAR SURGERY, AN ISSUE OF ORAL AND MAXILLOFACIAL SURGERY CLINICS OF NORTH AMERICA, E-BOOK

**Elsevier Health Sciences This issue of Oral and Maxillofacial Surgery Clinics of North America is devoted to Dentoalveolar Surgery and is edited by Dr. Somsak Sittitavornwong. Articles will include: Preprosthetic Dentoalveolar Surgery; Management of Impacted Third Molars; Principles of Exodontia; Complications, Including Infections, in Dentoalveolar Surgery; Medical Management of Patient undergoing Dentoalveolar Surgery; Trigeminal Nerve Injury; Oral Soft Tissue Grafting; Current Concepts of Periapical Surgery; Surgical Exposure of Impacted Teeth; Dental Trauma; Tooth Transplantation; Socket Grafting; Maxillary Sinus Diseases; and more!**

## ADVANCES IN PERIODONTAL SURGERY

## A CLINICAL GUIDE TO TECHNIQUES AND INTERDISCIPLINARY APPROACHES

**Springer This book describes practical, contemporary, and evidence-based surgical approaches for the treatment of diseases and conditions affecting the periodontium, including advanced forms of periodontal disease, gingival recession, and complex cases requiring interdisciplinary management. The book opens by identifying key**

**considerations in periodontal surgery, for example with regard to diagnosis and prognosis, and by presenting decision trees that will be useful in daily practice. Cutting-edge resection and regeneration techniques for the treatment of periodontitis and mucogingival surgical procedures for the management of soft tissue deficiencies are then described and illustrated in detail, highlighting important tips and tricks as well as potential difficulties and complications. The final part of the book is devoted to interdisciplinary care, which is of key importance when periodontal surgery is indicated in the management of cases requiring orthodontic, endodontic, and restorative therapy. Advances in Periodontal Surgery will be of value for practitioners at all levels of experience as well as for students entering the field.**

## LINDHE'S CLINICAL PERIODONTOLOGY AND IMPLANT DENTISTRY, 2 VOLUME SET

**John Wiley & Sons Discover the latest edition of the cornerstone reference on periodontology and implant dentistry that combines scholarship and science with practical clinical instruction The Seventh Edition of Lindhe's Clinical Periodontology and Implant Dentistry brings together a distinguished team of periodontal specialists and academics who deliver another must-have resource for students, researchers, and practitioners specializing in periodontal care and implant dentistry. Seamlessly integrating the foundational science behind periodontology with practical clinical protocols in two comprehensive volumes, the chapters cover anatomy, microbiology, occlusion trauma, pathology, tissue regeneration, treatment planning protocols, infection control, reconstructive therapy, occlusal and prosthetic therapy, and more. The Seventh Edition of Lindhe's Clinical Periodontology and Implant Dentistry: Provides an introduction to anatomy, including periodontal tissues, the edentulous ridge, the mucosa at teeth and implants, and osseointegration Discusses the epidemiology of periodontal and peri-implant diseases Explores the microbiology, including dental biofilms and calculus, periodontal infections, peri-implant infections, the pathogenesis of gingivitis and periodontitis, and the genetic susceptibility to periodontal disease Includes the latest perio- and peri-implant disease classifications Contains updated evidence-based preventive and treatment modalities for the treatment of periodontal and peri-implant diseases Features the latest evidence-based therapeutic alternatives on the use of dental implants to rehabilitate the lost dentition Perfect for postgraduate dental students, researchers, and practitioners specializing in periodontal care and implant dentistry, Lindhe's Clinical Periodontology and Implant Dentistry continues to be the cornerstone reference work on periodontology.**

## BONE AUGMENTATION BY ANATOMICAL REGION

## TECHNIQUES AND DECISION-MAKING

**John Wiley & Sons Comprehensively describes bone augmentation techniques and their application to the different anatomical regions of the upper and lower jaws. Bone Augmentation by Anatomical Region is a unique, evidence-based guide focusing on each specific anatomical region – anterior maxilla, posterior maxilla, anterior mandible, and posterior mandible – in order to emphasize the correct implemented procedures needed to successfully perform oral osseous reconstruction. Numerous ridge augmentation techniques are covered, including: horizontal and vertical guided bone regeneration, autologous block transplantation, interpositional bone grafting, allogeneic blocks, sandwich technique, split-expansion ridge technique, and sinus floor grafting. Non-augmented approaches such as forced socket site extrusion and the installation of digitally printed implants are also presented and discussed. Guides readers on tackling bone augmentation via anatomical region of the jaws and their related surrounding muscles, vascularization and innervation Presents innovative augmentation techniques for the anterior maxilla, posterior maxilla, anterior mandible, and posterior mandible Includes clinical photographs in each section and a decision tree to help readers select the appropriate surgical modality Bone Augmentation by Anatomical Region is a specialist resource suitable for dentists who practice implant dentistry, oral surgeons, oral and maxillofacial surgeons, periodontists, and postgraduate dental students in the above-mentioned disciplines.**

## MICROSURGERY IN PERIODONTAL AND IMPLANT DENTISTRY

## CONCEPTS AND APPLICATIONS

**Springer Nature This book compiles all relevant information regarding fundamental concepts and advanced techniques related to the applications of minimally invasive procedures in periodontal and implant therapy facilitated with the operating microscope. Microsurgical therapy, wound healing principles as well as biomechanical and design aspects of micro-instruments and suturing armamentarium are discussed. The book offers information that is usually scattered in the dental and medical literature and not only hard to compile but also to frame in the appropriate clinical categories. Its unique emphasis on ergonomics (patient, operator and assistant positioning) and collaboration techniques like four to six hand assisting make this work unique. Each topic is discussed by world renowned experts in the field. The book**

**is a valuable resource for the dental society including general dentists, periodontists, oral surgeons and implantologists.**

## CLINICAL CASES IN IMPLANT DENTISTRY

**John Wiley & Sons Clinical Cases in Implant Dentistry presents 49 actual clinical cases, accompanied by academic commentary, that question and educate the reader about essential topics in implant dentistry, encompassing diagnosis, surgical site preparation and placement, restoration, and maintenance of dental implants. Unique case-based format supports problem-based learning Promotes independent learning through self-assessment and critical thinking Highly illustrated with full-color clinical cases Covers all essential topics within implant dentistry**

## SOFT TISSUE AND ESTHETIC CONSIDERATIONS IN IMPLANT THERAPY

**Quintessence Publishing (IL) Preface; Acknowledgments; Chapter 1: Beyond Osseointegration, Anatomy and Biology of Peri-implant Soft Tissues, Choosing Between a Submerged and Nonsubmerged Approach; Chapter 2: Systematic Evaluation of the Esthetic Implant Patient, A Simplified Approach to Patient Evaluation, Facial and Dental Symmetry, Periodontal Biotype, Anatomic Limitations, Marginal Tissue Recession, Classification of Alveolar Ridge Defects in Esthetic Implant Therapy; Chapter 3: Surgical Techniques for Management of Peri-implant Soft Tissues, Instrumentation for Soft Tissue Management in Implant Therapy, Criteria for Optimal Flap Design in Implant Therapy, Application of Plastic Surgery Principles in Implant Therapy, Flap Management Considerations, Surgical Maneuvers for Management of Peri-implant Soft Tissues, Flap Management Considerations for Mandibular Implant Surgery, Flap Management Considerations for Maxillary Implant Surgery, Flap Design and Management Considerations for Esthetic Implant Therapy; Chapter 4: The Bio-Col Technique, The Importance of Site Preservation, Bio-Col Technique for Delayed Implant Placement, Bio-Col Technique for Immediate Implant Placement, Long-Term Clinical Results Obtained with the Bio-Col Technique, Suggested Refinements, Summary; Chapter 5: Soft Tissue Grafting in Implant Therapy, Periodontal Plastic Surgery, Oral Soft Tissue Grafting with Dental Implants, Modified Palatal Roll Technique for Dental Implants, Epithelialized Palatal Graft Technique for Dental Implants, Subepithelial Connective Tissue Graft Technique for Dental Implants, Summary; Chapter 6: The Vascularized Interpositional Periosteal-Connective Tissue (VIP-CT) Flap, Rationale and Biologic Basis, General Considerations, Potential Complications, Surgical Procedure, Clinical Experience, Summary; Chapter 7: Esthetic Implant Therapy: A Comprehensive Approach, Philosophy of Care, Rationale for Site Preservation,**

**Implant Site-Development Techniques, Prosthetic Considerations for Enhancing Outcomes in Implant Therapy, Surgical Considerations for Enhancing Outcomes in Implant Therapy, Use of Platelet-Rich Plasma to Enhance Outcomes in Implant Therapy, Conceptual Framework for Esthetic Implant Site Development, Appendix: Treatment Algorithms for Esthetic Implant Therapy, Index.**

## ADVANCES IN ESTHETIC IMPLANT DENTISTRY

**John Wiley & Sons A comprehensive and highly illustrated reference on current topics in esthetic dental implant therapy Advances in Esthetic Implant Dentistry provides a current, comprehensive overview of esthetic implant therapy. Offering innovative step-by-step protocols for surgical techniques and case studies, the book presents practical, clinically oriented guidance firmly anchored in solid scientific research. A companion website provides videos of clinical procedures and follow-up case studies. The book emphasizes the physiology of labial plate of bone and its influence to the overall fate of implant placement in fresh extraction sites, including several cutting-edge techniques to restore and treat deficient labial plate of bone. A novel chapter offers a solid protocol to diagnose, categorize, and treat implant-related gingival recession predictably. Highlights novel esthetic protocols in dental implantology, applying the latest advances in clinical techniques to real-world dentistry Follows up on treatment outcomes, presenting results up to seven years later Provides reliable, evidence-based bone regenerative methods Illustrates procedures step by step, with more than 2500 clinical photographs Features a companion website with videos of clinical procedures and follow-up case studies Advances in Esthetic Implant Dentistry is an indispensable clinical companion for practitioners and students of periodontics, prosthodontics, oral and maxillofacial surgery, and general dentistry, bringing the reader new horizons in esthetic dentistry.**

## REGENERATIVE DENTISTRY

**Morgan & Claypool Publishers Dental caries, periodontitis, tooth loss, and bone resorption are considered prevalent health problems that have direct affect on the quality of life. While, advances in stem cell biology and biotechnology have sparked hope for devastating maladies, such as diabetes, cardiovascular diseases, etc., it also provides a strategy of regenerative therapy for dental tissues. From the prospective of tissue engineering, it is of utmost importance to understand and emulate the complex cell interactions that make up a tissue or organ. Unlike other tissues in the body, dental tissues are unique in their development, function, and even in their maintenance**

**throughout life. The harmonized stimulations of biology and mechanical regulators to promote cellular activities have matured our understanding of the value of regenerative therapy of dental tissue versus the reparative treatment. In this book, we review the current knowledge available to regenerate alveolar bone, periodontal structure, and pulp/dentin complex. The book provides researchers with detailed information about development and functional characteristics of the dental unit with detailed protocols covering a comprehensive range of various approaches to engineer dental tissues: to use isolated cells or cell substitutes as cellular replacement, to use acellular biomaterials capable of inducing tissue regeneration, and/or to use a combination of cells, biomaterial and growth factors. We are well aware, with the concept changes in the field toward in-vitro biomimetics of in-vivo tissue development. The theoretical frame work integrating these concepts of developmental biology and developmental engineering is yet to be emphasized and implemented. Until this happens, we consider this book of regenerative dentistry as a call for scientists to achieve, researchers to innovate, practitioners to apply, and students to learn the art and science of regenerative therapy in dentistry. Table of Contents: Introduction to Regenerative Dentistry / Tissue Engineering Alveolar Bone / Tissue Engineering of the Periodontal Tissues / Dynamics for Pulp-Dentin Tissue Engineering in Operative Dentistry**

## CDT 2020

## DENTAL PROCEDURE CODES

**American Dental Association Get paid faster and keep more detailed patient records with CDT 2020: Dental Procedure Codes. New and revised codes fill in the coding gaps, which leads to quicker reimbursements and more accurate record keeping. CDT 2020 is the most up-to-date coding resource and the only HIPAA-recognized code set for dentistry. 2020 code changes include: 37 new codes, 5 revised codes, and 6 deleted codes. The new and revised codes reinforce the connection between oral health and overall health, help with assessing a patient’s health via measurement of salivary flow, and assist with case management of patients with special healthcare needs. Codes are organized into 12 categories of service with full color charts and diagrams throughout, in spiral bound format for easy searching. Includes a chapter on ICD-10-CM codes. CDT 2020 codes go into effect on January 1, 2020 – don’t risk rejected claims by using outdated codes.**

## UNANSWERED QUESTIONS IN IMPLANT DENTISTRY, AN ISSUE OF DENTAL CLINICS OF NORTH AMERICA

**Elsevier Health Sciences This issue of Dental Clinics of North America focuses on Unanswered Questions in Implant Dentistry and is edited by Dr. Mohanad Al-Sabbagh. Articles will include: Is there a contraindication for dental implant?; Should cone beam tomography be routinely obtained in implant dentistry?; What is the optimal ridge preservation technique?; Resorbable versus non-resorbable membrane: when and why?; Is there an alternative to an invasive site development?; Tissue engineering: what is new?; What is the best available micro and macro dental implant topography?; Can we achieve osseointegration without primary stability?; How reliable and predictable is fully guided technology?; Zygomatic implants or sinus lift for the atrophic maxilla with a dentate mandible?; Is there an ideal material for implant supported prosthesis?; Soft tissue quality and quantity: better implant longevity?; Is peri-implantitis Curable?; What Is the Best Cement for Implant Supported Prosthesis?; and more!**

## SURGICAL AND MEDICAL MANAGEMENT OF COMMON ORAL PROBLEM, AN ISSUE OF DENTAL CLINICS OF NORTH AMERICA

**Elsevier Health Sciences This issue of Dental Clinics of North America focuses on Surgical and Medical Management of Common Oral Problems, and is edited by Dr. Harry Dym. Articles will include: Short Implants: An Answer to a Challenging Dilemma; Surgical Case Review Utilizing New Techniques to Treat a Complex Case; The Role of Platelet Rich Fibrin in the Dental Office; The Total Joint Prosthesis: Indications and Techniques; Peri-implantitis: Why and How to Manage; New Approaches to Pain Management; Botox and Fillers Review; Diagnosis and Treatment Approaches to a "Gummy Smile"; Role of Piezzo Surgery and Lasers in the Modern Dental Office; Intra-Oral Scanner, 3D Imaging and 3D Printing in the Dental Office; Recognizing Neuropathic Pain and Current Treatment Regimens; Zygomatic Implant Replacement; Update on Treatment of the Anti-Coagulation Patient and Hemostatic Agents; Growing Bone: Old and New Techniques Reviewed; Obstructive Sleep Apnea: A Review for the General Dentist; and more!**

## HORIZONTAL ALVEOLAR RIDGE AUGMENTATION IN IMPLANT DENTISTRY

## A SURGICAL MANUAL

**John Wiley & Sons Horizontal Augmentation of the Alveolar Ridge in Implant Dentistry: A Surgical Manual presents the four main methods of horizontal ridge augmentation in a clinically focused surgical manual. After an introductory**

**section and requirements for dental implants, sections are devoted to each procedure: ridge-split, intraoral onlay block bone grafting, guided bone regeneration, and horizontal distraction osteogenesis. Chapters written by international experts in each augmentation procedure Step-by-step instruction for each technique More than 1,100 clinical photographs and illustrations**

## IMPLANT THERAPY IN THE ESTHETIC ZONE

## CURRENT TREATMENT MODALITIES AND MATERIALS FOR SINGLE-TOOTH REPLACEMENTS

**Quintessenz Verlag Volume 10 of the ITI Treatment Guide series starts out with the most recent statements and recommendations of the 5th ITI Consensus Conference, followed by a detailed protocol for the evaluation and treatment planning of patients with esthetic demands requiring single-tooth replacement with a dental implant. Various surgical situations commonly encountered in the esthetic zone will be presented and recommendations on their treatment will be provided. In addition, the clinical management of the planned implant site before and after placement through the use of provisional prostheses, laboratory communication, abutment design, restorative material selection, and delivery will be examined. This volume of the ITI Treatment Guide series provides a comprehensive, evidence-based approach to single-tooth replacement in the esthetic zone, from consultation to follow-up, with a focus on current treatment modalities and on the materials that present-day implant dentistry has to offer. The ITI Treatment Guide series is a compendium of evidence-based implant-therapy techniques and procedures for daily practice. Written by renowned clinicians and supported by contributions from expert practitioners, the ITI Treatment Guides provide a comprehensive overview of various clinical options. The management of different clinical situations is discussed with an emphasis on sound diagnostics, evidence-based treatment concepts, and predictable treatment outcomes with minimal risk to the patient.**

## DISEASES AND CONDITIONS IN DENTISTRY

## AN EVIDENCE-BASED REFERENCE

**John Wiley & Sons Diseases and Conditions in Dentistry: An Evidence-Based Reference is the ideal, one-stop guide for dentistry clinicians to keep at their side. Provides a quick reference for the busy clinician covering diseases and conditions in endodontics, periodontics, prosthodontics and restorative dentistry Offers identically formatted chapters**

following the same clear and concise layout with detailed clinical cases and evidence-based discussions Features a companion website with additional clinical photographs, radiographs, and case notes

## CLINICAL PERIODONTOLOGY AND IMPLANT DENTISTRY, 2 VOLUME SET

John Wiley & Sons Now in its sixth edition, Clinical Periodontology and Implant Dentistry is the must-have resource for practitioners specialising in periodontal care and implant dentistry. The chapters have been extensively revised with 40% of the content new to this edition. Maintaining the widely praised two-volume format introduced in the previous edition, the editorial team has once again brought together the world’s top international specialists to share their expertise on all aspects of periodontology, periodontal health and the use of implants in the rehabilitation of the periodontally compromised patient. Seamlessly integrating foundational science, practical clinical protocols, and recent advances in the field, Clinical Periodontology and Implant Dentistry, Sixth Edition enhances its stellar reputation as the cornerstone reference work on periodontology.

## CARRANZA'S CLINICAL PERIODONTOLOGY

Elsevier Health Sciences The most widely used periodontics text, Carranza's Clinical Periodontology provides both print and online access to basic procedures as well as the latest in advanced procedures and techniques in reconstructive, esthetic, and implant therapy. Not only does this book show how to do periodontal procedures, it describes how to best manage the outcomes and explains the evidence supporting each treatment. Written by leading experts Michael Newman, Henry Takei, Perry Klokkevold, and Fermin Carranza, along with a pool of international contributors, this edition also discusses the close connection between oral health and systemic disease. A new Expert Consult website includes the entire, fully searchable contents of the book, and takes learning to a whole new level with content updates, videos, a drug database, and much more. Comprehensive coverage describes all aspects of periodontics in a single volume, including periodontal pathology, the etiology of periodontal diseases, the relationship between periodontal disease and systemic health, treatment of periodontal diseases, oral implantology, supportive treatment, and ethics, legal, and practical matters. Problem-solving, scenario-based learning opportunities use well-documented case reports to help you learn both basic and advanced procedures and techniques. 'Speed to competence' is enhanced with access to print, online, and mobile platforms. A unique approach combines evidence-based decision-making, science transfer, and classification/nomenclature throughout every chapter. A one-of-a-kind Genetic Factors and

**Periodontal Disease chapter examines the role of genetic factors in gum disease. In-depth information serves as an excellent foundation in preparing for the National Board Dental Exam. Expert Consult website offers fast, reliable online access to advanced material, videos, an image collection, a drug database, interactive flash cards, multiple-choice test questions, interactive references, and Pathology Consult -- plus, the entire contents of the book are fully searchable. Find core information in the book; additional, advanced information is provided online. Consult your book from any computer, anywhere in the world, for the entire life of this edition. Keep current with regular updates of the latest periodontal news and information. Follow links from biographical citations to the corresponding MEDLINE abstracts. See a comprehensive library of pathology photos. Coverage of the latest advances includes the emerging link between periodontal disease and systemic health. Full-color illustrations depict the newest developments in surgical technology. A new Multidisciplinary Approach to Dental and Periodontal Problems chapter discusses the importance of collaborative care in the practice of periodontics. Etiology of Periodontal Diseases (Part 4) provides a more comprehensive background in periodontal anatomy, physiology, and pathogenesis.**

## PREPROSTHETIC AND MAXILLOFACIAL SURGERY

## BIOMATERIALS, BONE GRAFTING AND TISSUE ENGINEERING

**Elsevier One of the most important factors in ensuring successful osseointegration is the stability of the implant after its insertion. In order to achieve optimum conditions for implantation, it is often necessary to prepare the area and reconstruct the bone to ensure that it is the correct shape and size for the implant. Preprosthetic and maxillofacial surgery provides a thorough review of the current status and future direction of this important field. Part one reviews bone grafting for implantology and reconstructive preprosthetic surgery. Chapters in part two discuss reconstruction and rehabilitation whilst the final group of chapters analyse tissue engineering applications. Provides readers with the fundamentals of the biology and physiology of maxillofacial bone reconstruction Examines bone reconstruction in implantology and reconstructive preprosthetic surgery considering the fundamentals of bone grafting and alveolar reconstruction Explores construction in particular situations, beginning with applications of biomaterials in alveolar and maxillofacial bone reconstruction and moving on to describe implants in congenital missing teeth**

## EMERGING BIOMATERIALS AND TECHNIQUES IN TISSUE REGENERATION, AN ISSUE OF ORAL AND

## MAXILLOFACIAL SURGERY CLINICS OF NORTH AMERICA, E-BOOK

**Elsevier Health Sciences This issue of Oral and Maxillofacial Surgery Clinics of North America focuses on Emerging Biomaterials in Oral and Maxillofacial Surgery, and is edited by Dr. Alan Herford. Articles will include: Basic Principles of Bioengineering and Regeneration; Soft Tissue Regeneration Incorporating 3D Biomimetic Scaffolds; Advances in Orofacial Stem Cells for Tissue Regeneration; Tissue Engineering for Vertical Ridge Reconstruction; Integrating Biomaterials in Trauma; Tissue Engineered Pre-vascularized Bone and Soft Tissue Flaps; Application of Biomaterials for Implant Therapy; Maxillofacial Defects and Use of Growth Factors; New Frontiers in Biomaterials; Soft Tissue Engineering; and much more!**

## MINIMALLY INVASIVE DENTAL IMPLANT SURGERY

**John Wiley & Sons Minimally Invasive Dental Implant Surgery presents a new clinical text and atlas focused on cutting edge and rapidly developing, minimally invasive treatment modalities and their applications to implant dentistry. Centered on progress in imaging, instrumentation, biomaterials and techniques, this book discusses both the “how to” as well as the “why” behind the concept of minimally invasive applications in implant surgery. Drawing together key specialists for each topic, the book provides readers with guidance for a broad spectrum of procedures, and coalesces information on the available technologies into one useful resource. Minimally Invasive Dental Implant Surgery will be a useful new guide to implant specialists and restorative dentists seeking to refine their clinical expertise and minimize risk for their patients.**

## CURRENT CONCEPTS IN DENTAL IMPLANTOLOGY

**BoD – Books on Demand Implant dentistry has changed and enhanced significantly since the introduction of osseointegration concept with dental implants. Because the benefits of therapy became apparent, implant treatment earned a widespread acceptance. Therefore, the need for dental implants has caused a rapid expansion of the market worldwide. Dental implantology continues to excel with the developments of new surgical and prosthodontic techniques, and armamentarium. The purpose of this book named Current Concepts in Dental Implantology is to present a novel resource for dentists who want to replace missing teeth with dental implants. It is a carefully organized book, which blends basic science, clinical experience, and current and future concepts. This book includes ten chapters and our aim is to provide a valuable source for dental students, post-graduate residents and clinicians**

who want to know more about dental implants.

## ENGINEERING MINERALIZED AND LOAD BEARING TISSUES

Springer This book offers a comprehensive overview of current challenges and strategies to regenerate load-bearing and calcified human tissues, including bone, cartilage,tendon, ligaments and dental structures (dentin, enamel, cementum and periodontal ligament). Tissue engineering has long held great promises as an improved treatment option for conditions affecting mineralized and load-bearing structures in the body. Although significant progress has been achieved in recent years, a number of challenges still exist. Scaffold vascularization, new biofabrication methods (3D printing, lithography, microfabrication), peptide conjugation methods, interface engineering, scaffold mechanical properties, iPS cells, organs-on-a-chip, are some of the topics discussed in this book. More specially, in the first section readers will find an overview of emerging biofabrication methods. In section 2, applied strategies for regeneration of (2.1) bone, cartilage and ligament, as well as (2.2) dentin, cementum, enamel and periodontal ligament are discussed across 14 chapters. While other volumes have addressed the regeneration of individual tissues, or exclusively focused on different regenerative strategies, the focus of this work is to bring together researchers integrating backgrounds in materials sciences, engineering, biology, mechanics, fluidics, etc, to address specific challenges common to regeneration of several load-bearing and calcified tissues. Therefore, this book provides a unique platform to stimulate progress in the regeneration of functional tissue substitutes. We envision that this book will represent a valuable reference source for university and college faculties, post-doctoral research fellows, senior graduate students, and researchers from R&D laboratories in their endeavors to fabricate biomimetic load bearing tissues.

## MAXILLOFACIAL CONE BEAM COMPUTED TOMOGRAPHY

## PRINCIPLES, TECHNIQUES AND CLINICAL APPLICATIONS

Springer The book provides a comprehensive description of the fundamental operational principles, technical details of acquiring and specific clinical applications of dental and maxillofacial cone beam computed tomography (CBCT). It covers all clinical considerations necessary for optimal performance in a dental setting. In addition overall and region specific correlative imaging anatomy of the maxillofacial region is described in detail with emphasis on relevant disease. Finally imaging interpretation of CBCT images is presented related to specific clinical applications. This book is the definitive resource for all who refer, perform, interpret or use dental and maxillofacial CBCT including dental

clinicians and specialists, radiographers, ENT physicians, head and neck, and oral and maxillofacial radiologists.

## IMPLANT DENTISTRY - E-BOOK

Elsevier Health Sciences Get the practical information you need to add dental implants to your practice! Dr. Arun Garg, a leading dental implant educator, clinician, and researcher, uses a clear, succinct writing style to inform and guide you through the full scope of dental implantology. A patient-focused approach covers surgical templates and techniques, sterilization, pharmacology, bone biology, complications, and more. A robust appendix offers handy information including insurance codes, consent forms, surgical tray set-ups, and food recipes for patients recovering from surgery. A practical yet comprehensive approach covers all aspects of implant dentistry from patient history to post-operative care, with minimal use of jargon, in an easy-to-read format. Outstanding photos help you visualize and understand patient outcomes. An appendix on post-operative instructions includes a unique section on delicious yet recovery-specific recipes.

## ADVANCES IN ADDITIVE MANUFACTURING TECHNOLOGIES FOR THE PRODUCTION OF TISSUE-ENGINEERED BONE SCAFFOLDS FOR DENTAL APPLICATIONS

Frontiers Media SA

## BIOINTERFACE ENGINEERING: PROSPECTS IN MEDICAL DIAGNOSTICS AND DRUG DELIVERY

Springer Nature This book provides detailed information on the surface and surface chemistry of various biointerfaces for the understanding and development of biosensors, biocompatible devices, and drug delivery systems. It highlights the role of interfacial phenomena towards the behaviour of biomolecules on different surfaces and their significance in recent applications. The book also addresses various surface engineering techniques for the modification of biomaterials that are implemented for improving biocompatibility. It provides an updated scientific concept of various interactions of biological systems with surfaces/modified surfaces at the molecular and cellular level. The chapters include various in-vitro, in-vivo, ex-vivo models to illustrate various aspects of Biointerface Engineering. Finally, the book elucidates troubleshooting strategies and future prospects of Biointerface Engineering in Medical Diagnostics and Drug Delivery.

## CONTEMPORARY IMPLANT DENTISTRY - E-BOOK

**Elsevier Health Sciences Turn to this new third edition for consistent outcomes on even your most complex implant cases! World-renowned dental implantologist Carl E. Misch gives you expert advice and guidance on the various surgical approaches to placing implants in the revision of his best-selling classic. Over 1,000 full-color illustrations depict details of implants, related materials, and surgical procedures, while well-known contributors (Mohamed Sharawy, Martha Warren Bidez, Adriano Piatelli, and others) share a wealth of knowledge in their respective fields. This third edition provides an excellent opportunity for you to develop and refine your skills and experience more consistent, predictable clinical outcomes. Thorough explanations of the rationale for implants and their specific characteristics discuss why different options work better for different patients; the rationale behind implant materials and sizes; and the overall science of osteointegrated implants – providing a full understanding of how implants behave under certain circumstances and how to make the best choices for implant patients. Chapter on Diagnostic Imaging and Techniques focuses on the latest technology available to determine patient conditions, familiarizing you with recent advances and how they apply to treatment planning principles. Section on Treatment Planning discusses the rationales for implant placement, variables in implants and patient conditions, and the four degrees of jaw bone density, Dr. Misch's best-known criterion for successful implant placement. Prepares you for actual treatment by reviewing scientific fundamentals such as applied anatomy, biomechanical principles, current biomaterials, prevention and management of dental infections, and pharmacologic considerations. Surgical procedure chapters are of benefit to the implant surgeon and are critical to the restoring dentist who wants to better understand and appreciate surgical concepts. Over 1,000 full-color illustrations depict details of implants, related materials, and surgical procedures. Brand-new coverage includes: Key Implant Positions and Number, Ideal Implant Surgery, Extraction Socket and Barrie Membrane Bone Grafts, Sinus Pathology and Complications of Sinus Grafts, Immediate Loading for a Single Tooth, Partially Edentulous and Completely Edentulous Patient. Important updates include indications and contraindications for rationale of biomechanical treatment plans, layered approach to bone grafting, autograft block bone grafting, soft tissue surgery, and implant esthetics and maintenance. A new chapter on Tissue Engineering uses current information on platelet-rich plasma membranes and other elements of tissue engineering so you can take advantage of appropriate materials. Emphasis on evidence-based implant outcomes provides valuable information on which procedures have the greatest likelihood of success and lowest risk of complications.**

## VERTICAL ALVEOLAR RIDGE AUGMENTATION IN IMPLANT DENTISTRY

## A SURGICAL MANUAL

**John Wiley & Sons Vertical Augmentation of the Alveolar Ridge in Implant Dentistry: A Surgical Manual presents the main methods of vertical ridge augmentation in a clinically focused surgical manual. After an introductory section to the alveolar ridge and requirements for dental implants, sections are devoted to each procedure: guided bone regeneration, sinus lift, distraction osteogenesis, block grafting, and free bone flaps. Chapters written by international experts in each augmentation procedure Step-by-step instruction for each technique More than 1,100 clinical photographs and illustrations**

## CUMULATED INDEX MEDICUS

## ORAL AND MAXILLOFACIAL SURGERY

## A NEW APPROACH TO BONE REGENERATION

## PLASMA RICH IN GROWTH FACTORS(P.R.G.F.)

## BONE AUGMENTATION BY ANATOMICAL REGION

## TECHNIQUES AND DECISION-MAKING

**John Wiley & Sons Comprehensively describes bone augmentation techniques and their application to the different anatomical regions of the upper and lower jaws. Bone Augmentation by Anatomical Region is a unique, evidence-based guide focusing on each specific anatomical region – anterior maxilla, posterior maxilla, anterior mandible, and posterior mandible – in order to emphasize the correct implemented procedures needed to successfully perform oral osseous reconstruction. Numerous ridge augmentation techniques are covered, including: horizontal and vertical guided bone regeneration, autologous block transplantation, interpositional bone grafting, allogeneic blocks, sandwich technique, split-expansion ridge technique, and sinus floor grafting. Non-augmented approaches such as forced socket site extrusion and the installation of digitally printed implants are also presented and discussed. Guides readers on**

**tackling bone augmentation via anatomical region of the jaws and their related surrounding muscles, vascularization and innervation Presents innovative augmentation techniques for the anterior maxilla, posterior maxilla, anterior mandible, and posterior mandible Includes clinical photographs in each section and a decision tree to help readers select the appropriate surgical modality Bone Augmentation by Anatomical Region is a specialist resource suitable for dentists who practice implant dentistry, oral surgeons, oral and maxillofacial surgeons, periodontists, and postgraduate dental students in the above-mentioned disciplines.**

## BONE, BIOMATERIALS & BEYOND

**Edra Masson The introduction of osseointegrated dental implants soon 50 years ago has indeed revolutionized dentistry. The scientific evaluation of their use has shown good and increasingly successful treatment outcomes. A prerequisite though is the availability of sufficient bone volumes to ensure integration and acceptable aesthetic results. In this book various surgical techniques, using different augmentation materials, are described and explained. The aim has been to highlight minimally invasive surgical techniques, which leads to less risk of morbidity and reduces treatment time. Readers will enjoy a comprehensive atlas providing some practical advices for every day surgical practice based on solid scientific evidence.**

## MSCS AND INNOVATIVE BIOMATERIALS IN DENTISTRY

**Springer This authoritative reference presents the modern concepts of mesenchymal stem cells (MSCs) and biomaterials as they pertain to the dental field. The book is organized around three main topics: MSCs biology, advanced biomaterials, and clinical applications. The chapters present basic information on stem cell biology and physiology, modern biomaterials that improve bone tissue regeneration, the biomatrices like platelet-rich fibrin (PRF) used to functionalize the biomaterials surface, the strategic and safe intraoral seats of harvesting, the new sources for MSCs, as well as the future perspectives and new challenges in these exciting fields. The contributors are top scientists with a great deal of experience in regenerative dentistry and biomedical research. They offer an international perspective and are richly cross-disciplinary, representing academia, research, and industry. MSCs and Innovative Biomaterials in Dentistry is indispensable reading for students, researchers, and clinicians who need to stay up-to-date on the cutting-edge developments of tissue engineering and regenerative medicine applied to dental sciences.**

## IMPLANTS IN THE ESTHETIC ZONE

## A STEP-BY-STEP TREATMENT STRATEGY

## ORAL AND MAXILLOFACIAL SURGERY

**W B Saunders Company This is a comprehensive and definitive resource on oral and maxillofacial surgery. More than 300 authorities examine the full scope of the field including orthognathic surgery, trauma surgery, surgical pathology, cosmetic surgery, and reconstructive surgery. Reflects the state-of-the-art in oral and maxillofacial surgery with well-integrated coverage of the latest advances, techniques, and equipment. Illustrates vital techniques and information with more than 1,500 line drawings, intra-operative photographs, algorithms, charts, and tables. Discusses a range of issues related to surgical care such as anaesthesia, diagnostic imaging, treatment planning, rehabilitation and physical therapy, and psychological considerations. Features the expertise of an internationally recognised team of editors and contributors.**

## EVIDENCE-BASED IMPLANT DENTISTRY

**Springer This book covers all aspects of implant dentistry, presenting up-to-date information that reflects the highest level of scientific evidence as presented in the specialized literature. Among the topics addressed by expert authors are the prognosis of natural tooth versus implant restorations, bone response to implant treatment, placement and loading time, implant design and length, platform design, implant abutments, prosthodontic treatment, reconstructive surgery, and periimplantitis. The amount of data available for the clinician working in the field of implantology is huge and constantly increasing. The task of remaining abreast of the latest evidence and applying it effectively in clinical practice is further hindered by the fact that many scientific papers make contradictory claims and contain methodological flaws and biases that generate confusion and lack of reliability. Against this background, Evidence-Based Implant Dentistry will serve the reader as a dependable and scientifically supported guide to current implant treatment and key issues in the field.**