

## Book Reviews

### Challenging Nature: Wax-up Techniques in Aesthetics and Functional Occlusion



By Paulo Kano, DDS, CDT, Brazil. Quintessence Publishing Co. Ltd, London, Great Britain, 2011: ISBN 978-1-85097-203-7. (368 pages, 800 mostly color illustrations, 6 contributing authors, price \$280.00)

This eight-chapter book was written primarily to illustrate and provide information on wax-up techniques for maxillary and mandibular posterior teeth. The book also features direct and indirect restorative clinical cases and discusses adhesive cementation protocol. This book is intended for use by students, clinicians, and technicians. The author presents a wax-up technique that is described stepwise in detail. This book responds to the ever-increasing demand for esthetic dentistry, along with the need to provide appropriate function and occlusion.

Chapters 1 and 2 describe the nomenclature and morphology of posterior teeth. Posterior tooth morphology is clearly identified, and technical terms such as inclines, cusps, occlusal table, fossae, etc. are clearly defined and explained. Centric occlusal contacts are nicely illustrated and described. The title of the book, *Challenging Nature: Wax-Up Techniques in Aesthetics and Functional Occlusion*, could have been better met had Dr. Kano incorporated morphology, terminology, and wax-ups of anterior teeth. This would have provided a comprehensive review of the entire dentition, because esthetic cases involving anterior teeth are intertwined with the entire occlusal scheme. This book could have been an even better resource had anterior wax-ups been included with clinical cases.

In Chapter 3, the training exercises are particularly useful for a novice. The names of the carving instruments could have been listed to show the author's preferences. The step-by-step wax-up demonstrations are beautifully done. The illustrations and corresponding descriptions are very clear and show the author's skill and knowledge in this field. Because the purpose of this book is to teach wax-up techniques, it would have been useful to use a color scheme for different areas of the teeth to enhance the learning experience. Color schemes for cones, marginal ridges, cusps, occlusal anatomy, and line angles could have provided more clarity and detail to showcase different areas of the wax-up.

Chapters 4, 5, and 6 meticulously explain wax-up techniques. In Chapter 6, Dr. Kano does a beautiful job of demonstrating simultaneous wax-up of maxillary and mandibular teeth with no dental references provided by the opposing arches. He starts with the mandibular facial cusps, incorporating the "Curve of Spee," and then transitions to the maxillary palatal cusps. Next, he proceeds to the buccal side of maxillary teeth, which are followed by the lingual surfaces of mandibular molars; next he demonstrates the marginal ridges of maxillary teeth, and then proceeds to the mandibular teeth. Finally, the occlusal surfaces are waxed and carved into the occlusal scheme. Again, a color scheme would have added immense clarity for the reader.

In Chapter 7, the reader is presented with a series of clinical cases not directly related to the wax-ups. Posterior direct composite resin placement and finishing and indirect crowns, onlays, and fixed partial dentures using IPS e.max ZirCAD and Empress 2 systems are beautifully illustrated. Adhesive cementation is documented. The clinical cases are interesting, and the pictures and illustrations are of very high quality. Radiographs would have been useful adjunct in the clinical cases.

The last chapter on adhesive cementation, although brief, is particularly useful and shows the author's clinical and analytical thinking. Differences between conventional and adhesive cementation are discussed. Resin cements are clearly classified into autopolymerizing, light polymerizing, and dual-mode polymerizing. A table lists commercial names of resin cements along with the manufacturers and mode of activation. Surface treatments for indirect ceramic restorations are explained well.

The wax-up techniques demonstrated in this book could be highly beneficial for a dental student who will find detailed step-by-step techniques for posterior teeth. The illustration of clinical cases in the last chapter is also useful for students to understand direct and indirect restorative cases. A dental technician could benefit from the detailed illustrations. This book can also be useful to an experienced clinician who wishes to review wax-up techniques and adhesive cementation protocol.

In conclusion, this book, with its beautiful and numerous illustrations, could be added to the library of a student, technician, or clinician as a review of posterior tooth anatomy, waxing of posterior teeth, and adhesive cementation protocol.

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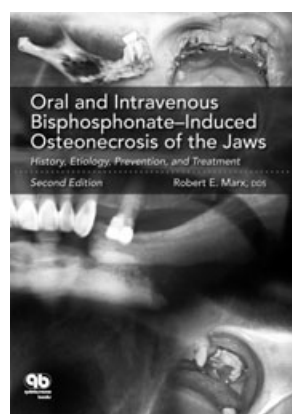
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## Oral and Intravenous Bisphosphonate-Induced Osteonecrosis of the Jaws



By Robert E. Marx, 2nd edition, Quintessence Publishing Co. Inc., Hanover Park IL, 2011: ISBN: 978-0-86715-510-5, 150 pages.

This very short (150 page) book was written to provide a comprehensive overview of the history, etiology, prevention, and treatment of bisphosphonate-induced osteonecrosis of the jaws (BIONJ).

The book provides a review of the issue in seven chapters [abbreviated]: description and history of BIONJ; mode of action of bisphosphonates; medical indications for bisphosphonates; osteopetrosis [a generic analogue to BIONJ]; risks, prevention and management of I.V. BIONJ; risks, prevention, and management of oral BIONJ; and clinical pathologic case samples.

Dr. Marx communicates the importance of having a very good basic understanding of the etiology, practical management, and treatment of this condition and its complications before getting involved in managing and/or treating cases of BIONJ. Considering the widespread use of oral bisphosphonates for management of osteoporosis and its very long half-life, BIONJ does potentially remain a common condition. In addition to current management techniques, Dr. Marx reviews the toxic effects of I.V. bisphosphonates as well as the risk of high doses of oral bisphosphonate used for as short a period as 3 to 6 months. This text also presents a more practical “simplified staging system” in the management and treatment of BIONJ.

I highly recommend this short and easily read book to all our colleagues and fellow health care providers to remain up to date with current thoughts, trends, and management of this potentially serious condition. References provided in the book will lead the reader with a further interest to more-detailed, in-depth texts and articles.

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## Dental Implant Restoration: Principles and Procedures



By Stuart H. Jacobs, BDS, MSD and Brian C. O'Connell, BDS, MS, PhD, Quintessence Publishing Co. Ltd, Grafton Road, New Malden, Surrey KT3 3AB, Great Britain, 2011: ISBN: 978-1-85097-101-6; 280 pages; 689 illustrations (mostly color); price \$148.00.

An excellent primer for those entering the dental implant surgery field, or for someone desiring a greater knowledge of implant restorative procedures, this text welcomes the reader to the exciting, ever-evolving world of implant dentistry. The introduction to this 19-chapter, two-part book discusses the foundations of implant treatment, including component design, osseointegration, and economic considerations, and briefly touches on important surgical concepts. The authors discuss patient evaluation and implant treatment planning, and present a framework of core concepts that will guide novice implant dentists towards success. The second part of the book provides illustrated descriptions of commonly used restorative clinical protocols that are easy to understand and implement.

No treatment should commence before obtaining a thorough medical history, clinical diagnosis, and informed consent. Chapter 2, “Patient Education,” and Chapter 3, “Diagnosis,” provide a list of advantages and disadvantages of implant dentistry, including recommended preliminary discussions to have with patients on such topics as length of treatment, success rate comparisons, and costs of treatment. Recognizing the importance of medico-legal considerations with regard to this type of complex rehabilitative therapy, the authors also include a suggested template for patient consent. Although at first glance appearing as merely a review of basic principles, the excellent chapter on diagnosis details a comprehensive approach to patient evaluation. Each section elaborates on a different aspect of diagnosis that should be addressed before recommending implant treatment. The authors stress the importance of bone quality, radiographic interpretation, and the use of cone beam imaging. Extra- and intraoral examinations are also discussed in detail.

One aspect of implant treatment that can be daunting to the novice practitioner is the selection of the appropriate implant to best restore a particular presenting clinical situation. Providing perhaps the most essential information in the book, Chapter 4, “Implant Treatment Planning,” introduces the reader to the wide variety of implant styles and sizes available. Esthetics often play an important role in implant treatment, and the authors freely impart the knowledge gained from practical clinical experience to the reader. They show why some

commonsense treatment modalities actually are contraindicated due to the inherent nature of implants and their surgical site healing. Because implants are occasionally placed in severely compromised positions, the authors offer a glimpse of hard and soft tissue grafting that may be employed to not only strengthen the placement site, but, when needed, to improve esthetics as well. Although not a detailed how-to guide to these procedures, the reader can gain insight into handling various challenging clinical situations with the wide range of specialty modalities available. For the clinician who aspires to provide the surgical portion of implant treatment, this is an excellent overview of the state-of-the-art methods generally available. This chapter emphasizes the importance of gaining considerable surgical skills, or working as a team with experienced surgeons, to provide a successful outcome for the patient.

The restorative dentist will appreciate the broad discussion of provisional and permanent implant restorations provided in Chapter 5, "Restorative Treatment Planning." With the large selection of implant styles and sizes available, abutment selection can often be challenging. The text presents a variety of abutment types, with an emphasis on how to correct for inaccuracies in implant positioning. The authors also provide suggestions for appropriate implant selection when dealing with the anatomical and/or esthetic limitations of a case. Next is a basic overview of drivers, screws, and lab analogs commonly used in implant treatment.

Chapter 7, "Overdentures," and Chapter 8, "Immediate Loading of Implants," review assessment and treatment with overdentures and introduce the latest techniques to return the edentulous patient to an esthetic, functioning occlusion with minimal delay. Covering the various bars and attachments currently available, the authors discuss indications and contraindications of overdenture treatment, and include a flowchart

detailing treatment sequences based on how the patient presents to the clinician. Early loading of implants has long been a controversial topic in implant dentistry. The authors present a rationale for determining the viability of this type of treatment, particularly when applied to the placement of a provisional overdenture on multiple implants.

The majority of the second half of the text (Part II: Practical Protocols, Chapters 9 to 18), provides a comprehensive step-by-step guide to restorative treatment of dental implants. From prefabricated to custom-machined abutments, this detailed review covers the vast array of restorative options available today in an easy to understand format. Finally, Chapter 19, "Troubleshooting," reminds the reader that the complex world of dental implant dentistry is not without its share of untoward events. Although not intending to be all-inclusive, this section does provide a list of common complications in implant dentistry and their recommended solutions.

To ensure a favorable treatment outcome for our patients, the dental implant dentist must be knowledgeable of the various surgical and restorative techniques available. This allows for improved communication with patients, laboratories, and surgical specialists. Lavishly illustrated with hundreds of color photographs and exquisite drawings, this text is an excellent primer for the aspiring dental implant surgeon or restorative dentist looking to gain insight into these exciting treatment modalities. This beautiful, well-organized book will make an excellent edition to any dental library.

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