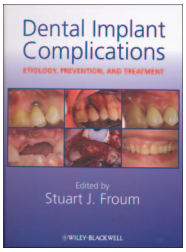
Book Reviews

Morton L. Perel, DDS, MScD, and Mark G. Marinbach, CDT



Dental Implant Complications: Etiology, Prevention, and Treatment. Stuart J. Froum, ed. 494 pp., illustrated. Wiley-Blackwell; ISBN 978-0-8138-0841-3.

The editor of this monumental text, which is sure to become a classic, is also a major contributor along with 49 other clinicians and researchers. There are close to 500 pages of nonrepetitive material, all of which is of vital interest to all practitioners of implant dentistry. As the saying goes, "no stone is left unturned," be it a surgical "stone" or a prosthetic/restorative "stone."

The 25 chapters are written by a veritable pantheon of implantologists whose names cannot all be listed in this review. Nevertheless, select chapter content reviews follow.

Chapters 2, 3, and 4, as a group, are associated with case planning. In the rush to proceed with clinical procedures, this basic topic is too often glossed over, but not in this text. From implant complications associated with systemic disorders and medications (Rose and Mealey), through complications associated with implant planning (and sometimes because of the lack of planning; Elian, Ehrlich, and Kim), and complications as they may arise with two- and three-dimensional imaging (Ganz), dynamic graphics, and decision trees along with case photographs abound.

Chapters 5 and 6 on implant fractures and implant failures, respectively, are rather brief and not as well referenced as other chapters. Meanwhile, chapter 7 on the subject periimplantitis gives no reference to Roland Meffert who is known for having expertise in this area.

Chapters 8, 9, 10, and 11, as a group, are very well illustrated. From esthetic complications caused by implant malpositions by Chen and Buser, to prosthodontic complications associated with less than optimal implant placement by Cavallaro and Greenstein, to prosthetic-related implant complications by Goodacre and Kattadiyil, and to single implant esthetics, the reader will not be bored. This is solid clinical implant information to which all clinicians can relate.

Then, there are several chapters, actually 12 through 20, which are essentially surgically related. They are all filled with expert advice, excellent photographs, and well-rounded references. From esthetics and adjacent restorations by Tarnow, Cho, and the editor himself, to handling of autogenous bone by Craig Misch (beautiful photographs illustrate the subject), to guided bone regeneration by Fontana, Rocchietta, and Simion, to distraction osteogenesis and osteoperiosteal flaps by Jensen, leading to a chapter by Ganeles and Grossberg on immediately loaded implants, all of the authors share and graphically exhibit complications associated with these procedures.

When the readers arrive at chapter 22, they will be greeted with the title, "A Potpourri of Surgical Complications Associated with Dental Implant Placement: 35 Case Reports—Common Problems, Avoidance, and Management" by Greenstein and Cavallaro. And, as if that were not enough, the book closes with chapter 25 with the title, "Management of Implant Complications by the Experts." It has 10 cases described by 10 different authors.

Aside from the fact that all chapters relate directly to the subject matter of "complications," each chapter is referenced and keyed to the body of the text. These are not thrown together as bibliographies. The chapters end with "Take-home hints." These are bulleted and highlighted in a very readable manner. In essence, this textbook is not only a worthwhile read but also an essential addition and a very welcome addition to the literature of implant dentistry. Dr. Froum has undertaken, compiled, edited, and coauthored a book for which he deserves our collective "thank you."

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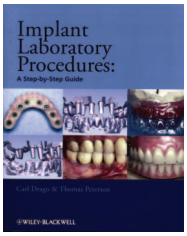

Implant Laboratory Procedures: A Step-by Step Guide. Carl Drago and Thomas Peterson, 322 pp., illustrated. Wiley-Blackwell; 2010.

This book is an attractive ring-bound soft cover publication. Its title got me very excited that a much-needed manual on implant prosthetics for the dental technician had finally arrived. I was very quickly disappointed. The title of the book leads one to believe that it is all about implant laboratory procedures, but instead, it is an attempt to cover the complete field of dental implants instead of being the guide that the title promises.

The book would better serve as a training manual for Biomet 3i employees, as almost the complete book is about 3i products. Most of the other implant manufacturers are ignored. Dr. Drago has been a full-time employee of Biomet 3i for the past 3 years, and Mr. Peterson has been a paid consultant to 3i for several years. Both authors state that they "did not receive any royalties or other forms of payment from Biomet 3i for writing this book."

The book is organized into 11 chapters and has a comprehensive index. Each chapter is well documented with many references. The following is a brief outline of each chapter.

Chapter 1

"Introduction to Implant Dentistry" is a basic overview covering "loading" terminology, types of abutments, and surgical guides.

Chapter 2

"Mandibular Two-Implant Overdenture" begins with an overview of research concerning 2-implant overdentures and types of attachment devices. A clinical patient presentation of the diagnosis and treatment plan is described in detail along with step-by-step procedures and work orders for each step of the fabrication of the dentures and the appropriate laboratory protocol.

Chapter 3

"Immediate Occlusal Loading—Maxillary Hybrid Prosthesis with Cast Metal Framework" begins with an introduction that covers some studies of the changes that edentulous patients undergo. A clinical patient presentation follows with a diagnostic workup and a case plan. The models are articulated without a facebow transfer at the skill and judgment of the technician. A lot of time and detail was spent describing the surgical guide development. A detailed description of the surgery was given followed by a discussion about the multiple advantages of the screw-retained prostheses and the 3i abutments that were used. The complete prosthetic techniques that were used by the dentist were well described. The related laboratory work was somewhat lacking in detail. The chapter ends with a report of the 1-week postinsertion clinical visit.

Chapter 4

"Robot Analog Placement and CAD/CAM Abutments" starts with a background description of the relationship between the implant and the restorative components. A history of the shortcomings of cast interfaces is followed by a long description of the advantages of the 3i CAD/CAM restorative system. A clinical patient is followed up using the 3i Encode system to construct an abutment and a crown. Too much attention is given to what is done in the abutment factory instead of focusing on the laboratory.

Chapter 5

"Maxillary Implant-Retained Primary Bar (CAM Structure Precision Milled Copy Milled Bar Framework) with Secondary Casting Maxillary Overdenture; Mandibular Hybrid Screw-Retained Prosthesis" is a description of the treatment of a patient as described by the title of the chapter. This is another infomercial for the 3i CAM StructSURE milled bar. There is also a brief description of the fabrication of electroformed bar sleeves. The laboratory work involved in this case is well documented with clear pictures.

Chapter 6

"Computed Tomography (CT)-Guided Surgery/Immediate Occlusal Loading with a Full-Arch Prosthesis in the Edentulous Mandible" begins with a very brief overview of immediate occlusal loading followed by a look at literature involving tilted implants. Diagnostic imaging, its use, and history are then discussed, as well as the software that is used for the clinician to develop treatment plans. The construction of surgical guides is described, and then, a clinical patient is presented. A description of one type of scan appliance is followed by a detailing of the cone beam scan and the virtual placement of the implants on a computer. The digital file is sent off to have the surgical guide manufactured and is followed by the laboratory procedure for fabrication of a provisional prosthesis. The description of the implant surgery followed by the placement of the abutments and the insertion of the provisional is reported in detail. The chapter ends with the postoperative visit.

Chapter 7

"Three-Unit Implant-Retained Porcelain-Fused-to Metal Fixed Partial Denture with Premachined, Fixed Collar Height Titanium Abutments" begins with a description of titanium abutments manufactured by 3i and their accompanying components. A patient is followed up from diagnosis to the final insertion of a 3-unit implant supported bridge. Again, more time was spent on the dental portion than on laboratory procedures.

Chapter 8

"Multiple CAD/CAM Abutments with Implant-Retained Porcelain Metal Crowns (The Encode Complete Protocol)" is a well-written 20-page description of the use and manufacturing of implant abutments using the 3i Encode system for multiple abutments.

Chapter 9

"Single Implant-Retained Porcelain Crown with Computer-Aided

Design/Computer-Aided Manufacturing (CAD/CAM) Ceramic Abutment (Encode Zirconia Abutment)" begins with a lengthy history of CAD/CAM use in industry and dentistry. A case for a single implant restored with a Zirconia abutment and a Procera crown is followed up in detail, again with emphasis on the Encode system and the manufacturing process.

Chapter 10

"Computed Tomography (CT)-Guided Surgery/Immediate Occlusal Loading with a Full-Arch Prosthesis in Edentulous Maxilla" begins with a repeat of the introduction used in Chapter 3, followed by a repeat of the discussion on tilted implants. CT is again related and followed by a look at cone beam technology. A patient with an edentulous maxilla is followed up from diagnosis through the insertion of his cast reinforced provisional bridge that he was to wear for 18 months.

Chapter 11

"Replacement of Denture Teeth and Denture Base for a Preexisting Mandibular Fixed/Detachable Prosthesis " begins with an overview of the advantages of implant-retained prostheses for the millions of edentulous people. A patient who has an 11-year-old complete maxillary denture opposing an implant-supported fixed/detachable full denture has complaints that her teeth have worn down and she can no longer see them when she smiles. The sequence of replacing her maxillary denture with a new one and the replacement of the base and the teeth on her mandibular fixed/detachable are described.

Many of the procedures and products described in the book have changed and, in many cases, been replaced by more current products, updated equipment, and techniques. The book still has value to dentists and laboratory technicians.

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ERRATUM

A 10-Year Longitudinal Study of 160 Implants Simultaneously Installed in Severely Atrophic Posterior Maxillas Grafted With Autogenous Bone and a Synthetic Bioactive Resorbable Graft: Erratum

In the article that appeared on page 351 of the August issue, some data was reported incorrectly. On page 352, the text stated, "One hundred sixty one implants (9 cylinders and 152 threaded) were from SteriOss System (Nobel-Biocare Company, Yorba Linda, CA) …." The correct data is as follows: "One hundred and forty implants (9 cylinders and 131 threaded) were from SteriOss System (NobelBiocare Company, Yorba Linda, CA …." The authors regret this error.

Reference:

Manso MC, Wassal T. A 10-year longitudinal study of 160 implants simultaneously installed in severely atrophic posterior maxillas grafted with autogenous bone and a synthetic bioactive resorbable graft. *Implant Dent*. 2010; 19:351–360.