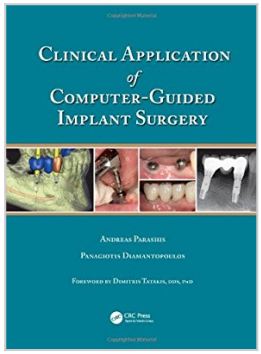

Clinical Application of Computer-Guided Implant Surgery

By Andreas Parashis, Panagiotis Diamantopoulos

Clinical Application of Computer-Guided Implant Surgery By Andreas Parashis, Panagiotis Diamantopoulos

Step-by-Step, Color Presentation of CGIP in Everyday Clinical Practice

Computer-guided implant placement (CGIP) helps clinicians precisely implement a treatment plan and accurately place implants with the use of three-dimensional interactive imaging software. The software enables the direct link between anatomic interpretation, surgical and prosthetic treatment planning, and precise surgical execution. Bone preparation, in relation to the position, angle, and depth of the implant, is guided through computerized digital procedures and patient-specific surgical guides are developed to obtain the optimum result of the insertion of implants in predetermined, prosthetically acceptable positions.

In color throughout, **Clinical Application of Computer-Guided Implant Surgery** covers the practical application of CGIP in a simple but detailed manner. Step by step, the book guides you on diagnosis and treatment planning, applying the specialized software, and using the necessary instruments and surgical guides. It also explores the strengths and weaknesses of CGIP and discusses literature related to the accuracy and clinical relevance of CGIP.

Using numerous images from clinical cases, this color book helps you understand the treatment pathway, radiographic guides, virtual teeth, imaging techniques, and computer software used for CGIP. The authors?experts in periodontics and image-guided surgery?describe this new philosophy in a way that you can incorporate in your daily clinical practice.

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Editorial Review

Review

"This book represents a new, timely, and focused resource for the clinician interested in computer-guided implant surgery, a treatment approach that fittingly epitomizes the current level of sophistication in oral health care. … This book represents the considerable effort of the authors, both of whom are experts in their respective fields and have made substantial contributions to the scientific literature. … a straightforward, succinct, and easy-to-read book. The numerous and detailed illustrations make this book a valuable clinical atlas, which will be particularly useful to the novice and enjoyable for the more experienced surgeon."

?From the Foreword by Dimitris N. Tatakis, DDS, PhD

"This text will be a helpful resource for any practitioner of dental implant surgery. It is concise, heavily illustrated, and full of practical examples of computer-guided surgery…[The book] provides high-level guidelines toward the application of computer-guided implant surgery and will perhaps be most valued for the comprehensive case studies."

?Mary Germino, Department of Biomedical Engineering, Yale University, New Haven, Connecticut, USA, in *Yale Journal of Biology and Medicine Book Reviews*

About the Author

Dr. Andreas Parashis maintains a full-time periodontics practice in Athens, Greece, and is an adjunct assistant professor in the Department of Periodontology at Tufts University School of Dental Medicine. He is a Diplomate of the American Board of Periodontology, an international member of the American Academy of Periodontology, and a member of the Hellenic Society of Periodontology, the Hellenic Society of Osseointegration, and the Hellenic Society of Prosthodontics. He earned a doctorate in periodontology from the University of Athens.

Dr. Panos Diamantopoulos is a consultant in image-guided surgery and research professor and director of the Biomedical Modelling Unit at the University of Sussex. He is a member of the International Society of Computer Aided Surgery, the European Society of Biomechanics, and the International Society of Biomechanics. He is also a founding member of the Hellenic Society of Biomechanics and the Hellenic Society of Computer Aided Surgery and Implantology. He earned a doctorate in biomedical engineering from the University of Sussex.

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