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Digital Dental Implantology

From Treatment Planning to Guided Surgery

Editors: Jorge M. Galante, Nicolás A. Rubio
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Dr. Jorge M. Galante, professor at Universidad de Buenos Aires and Universidad del Salvador and Dr. Nicolás Agustín Rubio, professor at Universidad de Buenos Aires, Universidad del Salvador and ROCA International, present their experience on oral rehabilitation with oral implants in the book entitled **“Digital Dental Implantology”** which has 10 chapters.

This book describes the fusion of two technologies, namely CBCT and CAD/CAM aimed at providing surgical dental treatments and explains the advantages and applications of this digital approach for implant placement procedures and other oral surgical protocols.

All aspects of computer-aided imaging and design are first covered in the textbook, including the creation of DICOM and STL files, followed by the process of virtual merging to obtain a combined image. Secondly, clinical tips for the use of digital wax up, software interactions and accurate template fabrication are explained, including subtractive and additive methods used for this manufacturing step. The other chapters are devoted to the application of technology fusion in implantology, guided bone regeneration, and maxillofacial surgery. Both static and dynamic guided surgeries are described. Materials characteristics and surgical instruments are also presented to define the correct selection criteria.

The digital approach outlined in this textbook involves a paradigm shift in the way traditional oral surgery is conceived. Technology fusion aims to improve treatment accuracy, optimize clinical time and reduce patient morbidity. Clinicians will find this book to be a valuable guide for virtual surgical planning and a path taking them into the exciting world of digital dental surgery.

The Books Review is drafted in the reviewer's sole wording and illustrates his opinions

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