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Title: Peri-Implant Tissue Remodeling

Subtitle: Scientific Background and Clinical Implications

Short text:

This multi-contributed textbook covers topics ranging from basic aspects of implant dentistry to advanced concepts such as platform switching, immediate implant placement, and the use of piezoelectric surgery for implant osteotomies. It begins with a review of the systemic, local, and surgical factors affecting bone remodeling. Next, flap design and peri-implant tissue stability are discussed in relation to the concepts of gingival biotype and biologic width. The novel concept of minimally invasive implant site preparation using piezoelectric surgical techniques is presented, followed by three chapters devoted to the theoretical and practical aspects of platform switching. Subsequent chapters address implant-abutment connection configurations and how they affect peri-implant bone remodeling as well as other prosthetic aspects of implant dentistry, including preparation design, finish lines, emergence profiles, and the shoulderless abutment. Bringing all of these concepts together, a comprehensive minimally invasive prosthetic protocol as well as a more specific shoulderless one-abutment protocol are described and illustrated with clinical cases. The final chapter examines plasma cleaning of titanium implants as a method of reducing osseointegration time and improving soft tissue response.

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