

The Omniscient viewpoint of Operator : Same or Different

Dr. Dong Wook Chang

Dr. Yong Jin Kim

Dr. Rokas Kuprys

The most common additional surgeries that accompany implant placement are maxillary sinus augmentation and alveolar ridge augmentation. Due to the pneumatization of the maxillary sinus, maxillary sinus augmentation is required in most cases for maxillary molar implant placement. Approaches to the maxillary sinus can be divided into transcrestal approach and lateral approach, and the approach method is usually determined based on residual bone height to the sinus floor. In addition, vertical and horizontal bone deficiency in the edentulous area causes difficulties in implant placement. Alveolar bone augmentation to obtain appropriate bone support around the implant area is considered an essential technique for successful implant treatment, and various alveolar bone augmentation techniques have been introduced. In actual clinical practice, guided bone regeneration using particulated bone graft material and barrier membrane is mainly used, but in the case of severely atrophic alveolar ridges, bone augmentation using block bone graft or titanium mesh should be considered. In this lecture, we would like to share the treatment protocols of maxillary sinus augmentation and alveolar ridge augmentation for implant placement based on the clinical experience.

Learning Objectives

- * Learn the clinical rationale behind sinus augmentation, especially in cases with maxillary molar edentulism due to sinus pneumatization, and differentiate between transcrestal and lateral approaches based on residual bone height.
- * Recognize how bone deficiencies affect implant placement and understand the importance of alveolar ridge augmentation in establishing adequate bone support.
- * Explore different augmentation methods including guided bone regeneration (GBR), block bone grafting, and titanium mesh applications, and understand when each is indicated based on the severity of alveolar ridge atrophy.

Profile

Dr. Dong Wook Chang

- * Degree of DMD in School of Dentistry, Kyung Hee Univ
- * Internship & Residency, Dept of Periodontics, Kyung Hee Univ Dental Hospital
- * Clinical Associate Professor, Kyung Hee Univ. School of Dentistry Dental Hospital
- * Present, Director, Win dental clinic, Seoul, Korea

Dr. Yong Jin Kim

- * DDS, College of Dentistry, Dankook University
- * Trained at the Dept. of Oral and Maxillofacial Surgery, College of Medicine, University of Ulsan, Seoul Asan Medical Center
- * Diplomate, Korean Board of Oral & Maxillofacial Surgery

- * Diplomate, Korean Board of Maxillofacial Plastic and Reconstructive Surgery
- * Dean's Faculty. Dental college of Maryland University
- * Present, Director of Yes Mir Dental Clinic

Dr. Rokas Kuprys

- * Oral surgeon
- * International lecturer
- * Panevezys Implantology Center, Lithuania
- * Minec Knight, member of Scientific Society of Oral and maxillofacial surgery
- * Guided surgery, implantology, soft and hard tissue management
- * Present, PIC(Panevėžio Implantologijos Centras) Clinic