Current Concepts in Sinus Augmentation -

State of the art techniques, graft materials and armamentarium

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Ziv Mazor D.M.D
Successful implant placement in the atrophic posterior maxilla is often complicated by the quality and volume of available bone. Post extraction resorption patterns, use of a removable prosthesis, physical trauma, periodontal disease and pneumatization of the sinus can significantly reduce or eliminate the height and width of the residual ridge. In the atrophic posterior maxilla, longer and wider implants are needed to enhance long-term survival, which often requires bone augmentation beneath the sinus to increase the vertical height of bone. Sinus floor augmentation is advocated in these cases in order to gain sufficient bone around the implants. Sinus elevation can be done either by an open lateral window approach or by a closed crestal approach, depending on the available bone height.

Both the conventional lateral window and closed osteotome crestal approaches to sinus augmentation are associated with patient morbidity and higher complication risks. In order to minimize patient morbidity and maximizing the procedure’s outcome, new surgical devices as well as graft materials have been developed. Evidence-based reviews on different graft materials used for sinus augmentation, including the “no graft” concept will be addressed.

Minimally invasive procedures such as: crestal approach using piezo assisted devices, non-cutting drills, balloon assisted sinus elevation and osseodensification sub crestal sinus elevation, have been introduced recently. These procedures have limited the traumatic factors to the tissue and the underlying bone, thus shortening the procedure time and eliminating postoperative complications.

The lecture/hands-on will focus on the “state of the art” in maxillary sinus augmentation treatment options comparing both current treatment modalities in order to reach the ultimate goal - giving the patient full dental function while reducing treatment time.
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