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MANDIBULAR BONE AUGMENTATION WITH SANDWICH TECHNIQUE WITHOUT FIXATION

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Abstract

Objective: One of the techniques for ridge augmentation is sandwich technique. In this technique autograft fixes with miniplate that needs to spend more time. In this study allograft fixed in place without fixation.

Method: In this study 4 patients aged 25-65 were treated. The inclusion criteria were:
1_Ridge height in posterior of mandible was between 5-8mm and minimum 5mm width
2_No risk for implant placement
3_No smoke
4-No medical risk

After bone exposure a horizontal osteotomy performed by oscillating saw 2 millimeter above mandibular canal and two vertical cuts are made at the both end of horizontal osteotomy then lingual periosteum released and mobile segment displaced coronally and created gap saved by a piece of mineralized cancellous allograft. After 6-8 months 8 implants were inserted in augmented area and 4 months later abutments were connected and crowns reconstructed.

Result: Mean ridge height increased 3/51mm and paired t test showed 56/7percent increase in ridge height

Conclusion: Sandwich technique is an acceptable technique for ridge augmentation and could be done under local anesthesia