MANDIBULAR BONE AUGMENTATION WITH SANDWICH TECHNIQUE WITHOUT FIXATION
Hamidreza Azimi
Shahid University

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 5-6mm 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 3.51 mm and paired t test showed 56.7 percent increase in ridge height.

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