BACKGROUND

The success of implant treatment depends on surgically positioning implants in restoration-prioritized areas with fixed soft tissue profile, hard tissue volume, and optimum occlusion.

### AIM

This study aimed to report a case with an atrophic ridge on the posterior mandible and procedures to augment hard and soft tissue.

# MATERIALS & METHODS

A 51-year-old healthy, non-smoking male presented for implant placement on the missing left second premolar and first molar. The clinical and radiographic examination showed inadequate bone width and a lack of buccal keratinized tissue.

### 4 months

3 months

### Guided bone regeneration

Implant placement

for bone augmentation

A stage approach GBR Two implant placements with Conelog® procedure with a semi- Screw-line size 4.3x11 and 5.0x11 were rigid shell barrier system installed. Then, a volume-stable collagen matrix (Ossix<sup>®</sup> Volumax) was applied.



Second-stage surgery was completed.

# Hard and soft tissue correction in atrophic ridge, a case report

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Vestibuloplasty with free gingival graft

Correction of soft tissue distortion with apically positioning flap and mucosal graft with FGG.



### RESULTS

The patient recovered well without complications. CBCT showed a significant bone gain in width and height, sufficient for implant placement. Two Conelog® screw-line implants with diameters of 4.3x11 mm and 5.0x11 mm were placed in 35 and 36 areas with good primary stability. Ossix® Volumax was applied to the buccal bone to correct the 1 mm implant dehiscence defect and augment soft tissue volume.

After two months of implant placement, vestibuloplasty with FGG was done to increase buccal keratinized tissue. The final prosthetic restoration was underway.

### **Pre-operative**



# CONCLUSIONS

The staged approach of bone augmentation provides adequate horizontal and vertical ridges for implants. Correction of soft tissue volume and keratinized band provide stable and healthy soft tissue surrounding the implant and enhance the success and longevity of the implant therapy. This presentation provides one technique for bone and soft tissue augmentation and correction of inadequate keratinized gingiva with good outcome.

# **DISCLOSURE OF INTEREST**

No conflicts of interest



**Post-operative** 

**Post-implant placement** 





