OraGEN® Cellular Bone Matrix

Case performed by: Dr. Shaun Young, Tampa, FL

CASE STUDY

Patient & Diagnosis:

- Female patient who previously underwent three failed bone grafting procedures in the posterior left mandible.
- Presented expecting a hybrid prosthesis for posterior teeth replacement without attempting another graft.
- Existing implants on the right mandible were stable and long-standing.
- Significant vertical defect in the posterior left mandible with insufficient bone height posterior to the mental foramen nerve.
- Scarred soft tissue, high muscle attachments, shallow vestibule, and large tongue/floor-of-mouth anatomy complicated the site.

Previous Treatment:

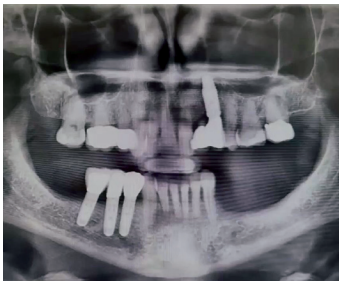
- Three prior failed grafting procedures in the posterior left mandible.
- Existing mandibular implants on the contralateral side remained stable.
- No major disease on adjacent natural teeth; mild bone loss only.

Intervention:

- Initial soft tissue management with a free gingival graft to:
  – Increase keratinized tissue
  – Deepen the vestibule
  – Release restrictive muscle attachments
- Ridge augmentation using:
  – 1.3 cc OraGen graft material
  – Small amount of autogenous bone
  – Sausage technique with membrane tacks
  – PRF placed over graft
  – Primary tension-free closure achieved
- Re-entry performed at 5 months.
- Placement of two implants for a planned 3-unit bridge.
- Collagen matrix placed facially to improve tissue thickness.

Outcome:

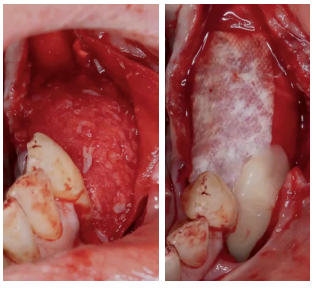
- "Ridge felt unusually dense and firm at only 2 weeks post-op."
- Achieved approximately 3-4 mm of vertical bone.
- "Implant osteotomies demonstrated very dense regenerated bone; denser than many autogenous-only grafts."
- Posterior implant torqued so tightly it could not be seated deeper.
- Follow-up radiographs showed continued maturation and ossification around implants.



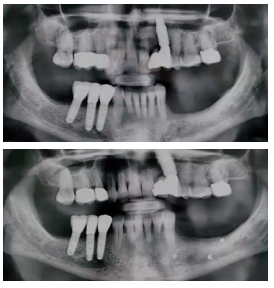
Posterior mandible with severe bone loss with multiple graft failures



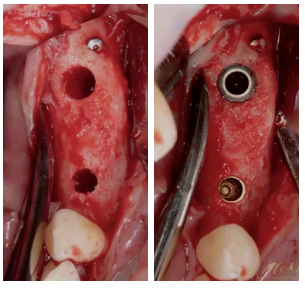
Treatment for a large vertical defect



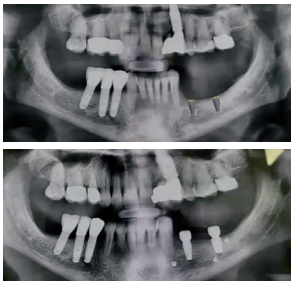
1.3cc of OraGen mixed with autogenous bone using the sausage technique



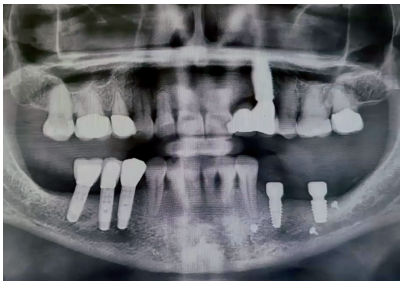
2 weeks post-op – showing dense bone formation



5 months post-op – showing significant bone formation and 3-4mm of vertical ridge height



Top image showing implant placement without treatment compared to bottom image – site grafted with OraGen



Panorex with image showing vital bone filling it around the apex of the implant



Final crowns in place



FGG was preformed after implant restoration was completed



4 weeks post-op for FGG

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This case report represents the experience of the treating clinician.

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