OraGEN® Cellular Bone Matrix

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

CASE STUDY

Patient & Diagnosis:

- Male patient already anticipating mandibular hybrid prosthesis.
- Existing lower-left implant bridge was stable.
- Severe peri-implantitis affecting posterior right mandibular implant with extensive bone loss near the mental foramen nerve.
- Significant periodontal disease in remaining mandibular teeth.

Previous Treatment:

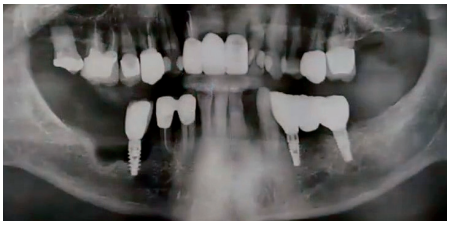
- Existing lower-left implant bridge placed years earlier.
- Failing implant in posterior right mandible.
- Advanced periodontal disease affecting remaining dentition.

Intervention:

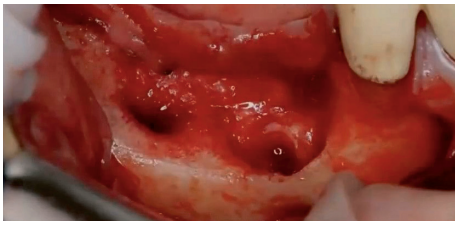
- Removal of failing implant.
- Ridge augmentation using:
  – 1.3cc OraGen only.
  – Collagen membrane.
  – Buccal tacks and pocket technique.
- Goal was to regenerate enough bone for a more posteriorly positioned implant before full-arch hybrid conversion.
- Re-entry approximately 6 months later.
- Placement of posterior axial implant and four additional implants for lower hybrid prosthesis.
- Existing healthy implants used with multi-unit abutments.

Outcome:

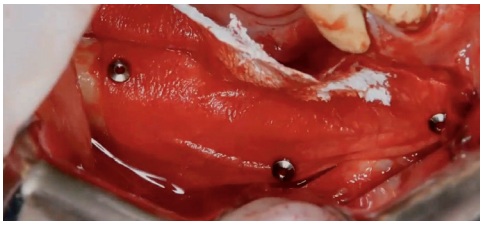
- Achieved approximately 8.4mm of vertical bone gain.
- Regenerated dense, healthy bone despite proximity to the mental foramen nerve.
- Excellent implant torque values achieved (40-50 Ncm).
- Final prosthesis delivered successfully.
- Bone levels became symmetrical with contralateral side.
- Case significantly improved long-term prognosis for lower hybrid restoration.



Severe peri-implantitis with significant bone loss on tooth #30



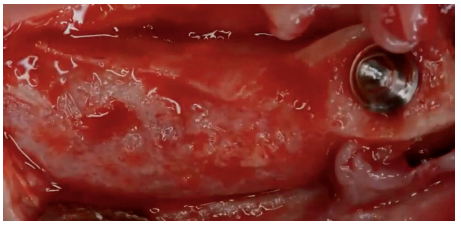
Removal of implants with large vertical defect with the mental foramen nerve 2-3mm below



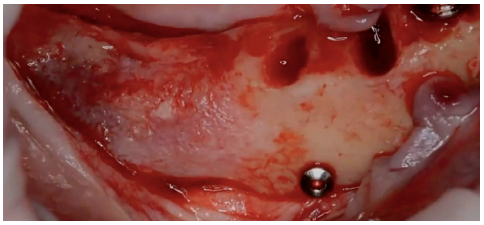
Grafted with 1.3cc size of OraGen and primary closure with resorbable collagen membrane



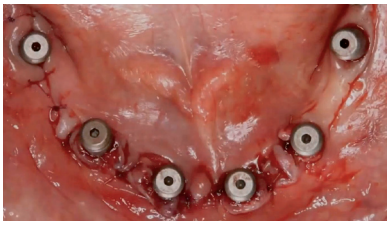
Post-op density



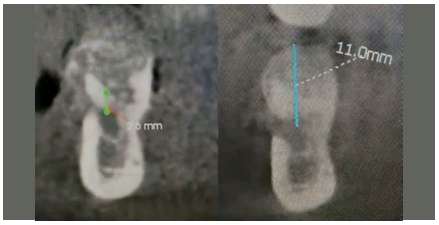
6 months post-op – achieved significant dense bone regeneration



6 months post-op – achieved approximately 8.4mm of vertical height



Placed implant at #30 and added 4 more implants for a lower hybrid



6 months post-op – showing vertical ridge regeneration increasing from **2.6mm** to **11mm**



Final panorex showing prosthesis delivered successfully and bone levels symmetrical with contralateral side

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