REGENERATION OF DEEP PERI-IMPLANTITIS INDUCED BONY DEFECT

PATIENT’S ORAL HEALTH

<table>
<thead>
<tr>
<th></th>
<th>AT PERI-IMPLANTITIS DIAGNOSIS</th>
<th>AFTER SURGICAL THERAPY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Periodontal / Dental Health</strong></td>
<td></td>
<td></td>
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<tr>
<td>Dental / Oral Health</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Periodontal Status</td>
<td>Chronic periodontitis</td>
<td>Treated chronic periodontitis</td>
</tr>
<tr>
<td><strong>Peri-Implant Health</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bleeding on Probing at Implant (BOP)</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Suppuration</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Gingival Index</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Plaque Index</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PD (in mm)</td>
<td>9/11/8/11</td>
<td>3/3/2/3</td>
</tr>
</tbody>
</table>

RISK FACTORS
No risk factors

IMPLANT
SP Ø4.1 RN 12 mm implant placement 6 years before peri-implantitis diagnosis

NON-SURGICAL THERAPY
Scaling & root planing

MEDICATION DURING SURGICAL PHASE
Augmentin 1g bid × 6 days

CASE SUMMARY

OBJECTIVES
- Functional restoration of implant
- Regenerate circumferential bone defect at implant in position 28

CONCLUSION
- Deep bone defect could be regenerated
- Peri-implant tissues could be restored to health, 8 years after placement
CASE PRESENTATION

1. Orthopantomography 4 years after implant insertion shows stable interproximal bone around implant in 28.
2. Two years later (6 years after implant placement) peri-implant bone loss is visible around the implant.
3. Deep pocket and bleeding on probing mesial and distal to the implant.
4. After raising a full thickness flap the surface of the implant is cleaned with a titanium brush.
5. Peri-implant lesion after the removal of granulation tissue and before decontamination of the implant surface.
6. EDTA is applied to the implant surface to decontaminate the implant surface.
7. Geistlich Bio-Oss Collagen® is applied around the peri-implantitis defect.
8. Geistlich Bio-Gide® is trimmed to cover the the defect area.
9. Geistlich Bio-Gide® is positioned to cover Geistlich Bio-Oss Collagen® and provide stability to the augmented site.
10. Non-submerged 4-0 Vycril suture of the flap.
11. Radiograph and clinical situation at 1-year post-operative visit. Minimal probing depth mesial and distal to the defect shows the defect elimination of the peri-implantitis site.
12. Clinical and radiographical situation 2.5 years post-operative shows stable conditions.

MATERIAL SELECTION

Geistlich Bio-Oss Collagen® (100 mg)
Geistlich Bio-Gide® (25 x 25 mm diameter)

FOR MORE INFORMATION

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G-298-16P