Case Presentation Template

<table>
<thead>
<tr>
<th>TITLE OF CASE</th>
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<tbody>
<tr>
<td>Full arch</td>
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<table>
<thead>
<tr>
<th>CLINICIAN NAME:</th>
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</thead>
<tbody>
<tr>
<td>Lambert J Stumpel, DDS</td>
</tr>
<tr>
<td>San Francisco</td>
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<table>
<thead>
<tr>
<th>SUMMARY (Up to 150 words summarising the case presentation and outcome)</th>
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<tbody>
<tr>
<td>Maxillary full arch implant supported fixed denture replacing an existing over-denture. The existing over-denture was ethically and functionally not satisfactory to this 64 year old female patient.</td>
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<td>Options discussed; new over denture, new complete denture, implant fixed reconstruction. Patient consented to the implant fixed reconstruction</td>
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<td>A stepped approach was selected with removal of visible natural gum tissue two months before implant placement.</td>
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<td>A full acrylic immediate load prosthesis was placed at time of implant placement. After 4 months of healing, the final metal resin implant supported full arch denture was fabricated.</td>
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<thead>
<tr>
<th>BACKGROUND (Up to 60 words of why you think this case is important)</th>
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<td>A fixed restoration will restore a patient in a biomimetic way. Since the reconstruction is not removable the prosthesis will feel like part of the patient. This will not only restore the ability to eat and speak, but importantly for the patient to feel whole. Patient reports having gradually lost most maxillary teeth, which were replaced with removable dentures.</td>
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<table>
<thead>
<tr>
<th>CASE PRESENTATION (Presenting features, dental/social/family history etc.)</th>
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<tbody>
<tr>
<td>Subjective;</td>
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<td>Patient states that she is unhappy with the look and feel of her over-denture</td>
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<td>Objective;</td>
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<tr>
<td>64 year old female with an existing maxillary over-denture showing signs of wear. Two remaining teeth # 8 and 9 with over-denture attachment.</td>
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<tr>
<td>Mandibular arch is fully restored and healthy.</td>
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<tr>
<td>Medical history ; Within normal limits. Patient does not take any medication and is in good health</td>
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Dental history: Lost maxillary teeth at younger age, with natural teeth retained over denture. Mandibular arch has been recently reconstructed.

Assessment:

Partially edentulous maxilla, with remaining compromised teeth

Plan:

- Discussion about alternatives (Full denture), risk factors (non integration of implants) and prognosis (good)
- Remove existing teeth 8 & 9
- Alveolectomy to bring smile line under the prosthetic junction line
- Place 4 implants to create adequate AP spread
- Deliver Immediate load prosthesis
- Upon verified osseo-integration of implants replace provisional with metal resin implants fixed full denture

INVESTIGATIONS (If relevant)


OUTCOME AND FOLLOW-UP

The treatment has progressed according to plan. The patient is currently 3 years post-delivery of the final prosthesis and is very pleased with the outcome. The reconstruction appears stable at this time
DISCUSSION (include very brief review of any complications or problems and how they were handled)

When reconstructing a composite defect, both teeth (white) and gum tissue (pink) has to be recreated. If prosthetic pink shows during smiling next to natural pink the aesthetic result will always be unsatisfactory. Often there is the need to reduce the existing ridge to bring the prosthetic junction with the natural pink and the artificial pink below the smile line. Not recognizing this before implant placement can create unsurmountable problems if a fixed reconstruction is the desired outcome. In this case pre-prosthetic surgical intervention created the correct relationship of the ridge in relation to the smile line. Alternatively this might have been performed at time of implant placement. Although such an approach saves treatment time, it complicates planning for the ideal tooth position. The patient is very happy with the achieved outcome.

LEARNING POINTS/TAKE HOME MESSAGES (3 to 5 bullet points)

- Fixed reconstructions are biomimetic reconstruction
- Bone removal is often indicated for acceptable aesthetic results
- Bone removal can be accomplished before or during implant placement
- The provisional restoration functions as the blueprint for the final reconstruction
- 4 implants can create an adequate AP spread and support a fixed reconstruction in the maxilla

Statement of Truth

I, ________________________________, attest to being the providing clinician for all of the treatment indicated in the above case presentation. I further confirm that all clinical photographs and radiographs are original and have not been tampered with or materially altered in any way to enhance the appearance or outcome of the case presented.

Signature: __________________________ Date: __________________________
I, __________________________, attest to being the patient represented in the attached case presentation template titled ______________________________ . I can verify that Dr. __________________________ was the providing clinician for all of the relevant treatment indicated and that the case presented is a true representation of the work undertaken by the applicant.

I consent to all material including clinical photographs (including any full face photos), radiographs and any relevant medical, dental and/or social history being included in this case presentation and understand that it may be reviewed by other clinicians on behalf of the Academy of Osseointegration.

I agree to full disclosure of my contact details as stipulated below and agree to be prepared to receive an unsolicited communication from the Academy of Osseointegration or its representative in order to further verify the veracity of this application, should it be deemed necessary.

Contact Details
Address: ___________________________________________________________
_______________________________________________________________
_______________________________________________________________
Telephone: _________________________________________________________
Email: ____________________________________________________________

Signature: ____________________________________________________________________________ Date: ____________________________
IMAGES

Please provide pertinent clinical photographs and/or radiographs of an appropriate selection of the following:

1. Pre-treatment dental status

2. Diagnostic evaluation

3. Pre-implant provisional prosthetics and/or surgery

4. Implant surgery. (Those clinicians restricting their practice to the restorative aspects only, please state the work is that of your oral surgeon and give their name)

5. Exposure & Provisionalization

Definitive restoration. (Those clinicians restricting their practice to the surgical aspects only, please state the work is that of your prosthodontist or general dentist and give their name)

Provide appropriate captions for each image (no more than 30 words per caption)
Pre-operative existing over-denture

Smile revealing exposure of natural gum tissue
Pre operative 8 & 9

Smile line is marked with tissue pen
Smile line is marked with tissue pen

Smile line is marked with tissue pen
Since average tissue depth is 3 mm, the soft tissue is cut 3 mm below the marked smile line.

Sonic instrumentation creates bone cut following soft tissue cut.
Bone segment is removed based on smile line

Bone segment which was removed in one section
Note uneven thickness as segment selection was based on smile line

Soft tissue closed, bringing attached tissue onto new ridge
Soft tissue closed, bringing attached tissue onto new ridge

Natural gum tissue is now not visible in smile line
Natural gum tissue is now not visible in smile line

After 6 weeks healing, work up in Nobel Clinician software
Resulting surgical guide is used to fabricate cast

PVS cast
Temporary cylinders in place

Premade provisional with spacing around cylinders
Implants and abutments placed with CAD/CAM guide and planning

Immediate post placement peri-apical radiographs
Immediately load provisional

Immediately post implant placement, note buccal holes from anchor pins
Natural gum tissue is now not visible in smile line

PVS cast made from provisional with vacuformed shell indicating volume of provisional
Provisional after 4 months of healing

CAD/CAM framework for metal resin full arch denture
Titanium framework

Vertical anterior stop at correct vertical dimension
Soft tissue impression

Soft tissue impression, titanium bar and bite registration at correct vertical
Titanium bar in relation to soft tissue

Metal resin full arch denture
Metal resin full arch denture

Abutment and soft tissue appearance at 4 months post healing
Abutment and soft tissue appearance at 4 months post healing

Lateral view. Note relationship acrylic material to the natural gingival tissue
Smile with new metal resin full arch denture

Initial situation