Today's Menu:

- Complications
- Aetiology
- Interrelation
- Prevention
Success

Absence of complications:
Any pathology or unpredicted alteration which requires chairside time to be treated/ repaired

Biological Complications
Early failures
Peri implant mucositis
Peri implantitis
Recession

Technical Complications
Veneer chipping / fracture
Framework fracture
Screw loosening
Screw fracture
Abutment fracture
Loss of retention
Implant fracture

The impact of cantilevers on biological and technical success outcomes of implant-supported Fixed Partial Dentures.
P. Kim, S. Ivanovski, N. Latcham, N. Mattheos.
submitted for publication, COIR 2012

206 patients, 272 FPDs, 50 months
Complications are clustered
FPDs with technical complications were 3 times more likely to be associated with biological complications
...to do list

1. Why did this complication occur?
2. Can I treat this complication?
3. How can I prevent the recurrence of the problem?
A systematic review of biologic and technical complications with fixed implant rehabilitation for edentulous patients.

Table:

<table>
<thead>
<tr>
<th>Component</th>
<th>5 yrs</th>
<th>10 yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full arch FDP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumulative</td>
<td>71%</td>
<td>91%</td>
</tr>
<tr>
<td>Ceramic chipping or fracture</td>
<td>33%</td>
<td>66%</td>
</tr>
</tbody>
</table>

Sunday, 28 October 2012
Food-holding and biting Behavior in Human Subjects Lacking Periodontal Receptors

M. Trulson and H.S.J. Ganne

1998

Food-holding and biting Behavior in Human Subjects Lacking Periodontal Receptors

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1998
Perception
- direction
- food location
- force
- changes in force or direction
- real time adjustment of the jaw
- precise control of movement
...to do list

1. Why did this complication occur ✓
2. Can I treat this complication?
3. How can I prevent the recurrence of the problem?
1. Why did this complication occur?

Misfit

Passive Fitness?
The Three-Dimensional Casting Distortion of Five Implant-Supported Frameworks

One cast - 5 implants - 5 frameworks reflect microscope
Acceptable: 150μm (Jent et al)
Found: between 416 and 477μm.

The greatest distortion occurred at the terminal implant abutments and in the vertical dimensions.
...to do list

1. Why did this complication occur?
   - Framework misfit?
     - examine the occlusion
     - study the radiographs
   - tactile perception of abutment screws

2. Can I identify the implant system?
   -1. Can I work with this implant system?
<table>
<thead>
<tr>
<th>Implant</th>
<th>Straumann DF 90 x 2.5 x 10mm LSF A2450, AF 001442</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restoration</td>
<td>Custom Abutment FWA Crown</td>
</tr>
<tr>
<td>Restoration date</td>
<td>01/11/2011</td>
</tr>
<tr>
<td>Clinician</td>
<td>Dr. N. Mathias</td>
</tr>
<tr>
<td>Dental Lab</td>
<td>Apex Dental, Southport</td>
</tr>
<tr>
<td>Contact</td>
<td><a href="mailto:n.mathias@griffith.edu.au">n.mathias@griffith.edu.au</a></td>
</tr>
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</table>

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**Probing Pocket Depth 13/7/2011**

| 3 | 2 | 2 | 3 |
...to do list

1. Why did this complication occur
2. Can I treat this complication
3. How can I prevent the recurrence of the problem
1. Why did this complication occur ✓
2. Can I treat this complication?
3. How can I prevent the recurrence of the problem?
Conclusively...

Clinical manifestation of complications is not always pointing at the true etiology.

Biology and technology are interdependent.

The majority of the reported complications is preventable - plan comprehensively.

Maintain comprehensively.
thank you!

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