An Alternative and Addition to Electrosurgery and the Scalpel

Integrating new technology into a modern dental practice has become an everyday fact of life. Some of these new clinical products make clinical chairside dentistry less complicated and more productive. The NTI® Soft Tissue Trimmer by Axis Dental, is a flame shaped hard oxide ceramic cylinder. It is used in the high-speed handpiece at full RPM without water coolant spray to excise and contour soft gingival tissue with minimal bleeding. Unlike radiosurgery or electrosurgery, there is little risk of over-heating the surgical site and compromising the bone.

New Technology with a Different Twist

Most dental surgeons are very skilled at removing hard dental tooth structure with the high-speed handpiece. The technology transfer of the NTI® Soft Tissue Trimmer is the same, except no water coolant spray is needed. This trimmer should be thought of as a rotating scalpel for soft tissue that promotes coagulation for minimal bleeding.

### NTI® Soft Tissue Trimmer

<table>
<thead>
<tr>
<th>MFG. NO.</th>
<th>STT-016</th>
<th>STTL-016</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE 1/10mm</td>
<td>016</td>
<td>016</td>
</tr>
<tr>
<td>LENGTH (mm)</td>
<td>5.0</td>
<td>8.0</td>
</tr>
<tr>
<td>FG (31)</td>
<td>Individual</td>
<td>Individual</td>
</tr>
</tbody>
</table>

### Indications:
- Contouring of gingiva for cosmetics
- Contouring of inflamed gingival soft tissue
- Widening the sulcus for fixed prosthodontic impressions
- Exposing deep cervical caries or external resorption
- Oparectomy
- Recovering intraosseous implants
- Exposing partially erupted wisdom / fractured teeth
- Excising granulation tissue
- Crown lengthening

### Case #1:

One of the more common uses of the NTI® Soft Tissue Trimmer is to widen the gingival sulcus of terminal molar teeth for fixed prosthodontic impressioning. In this case, tooth #15 had a porcelain failure on a crown with very deep subgingival margins.

The crown was removed after local anesthetic was placed. Several passes were made circumferentially around the tooth, at full RPM, with no water spray. This removed unwanted tissue for easier access and improved visibility.

A new chamfer margin was placed on the tooth and Racord #10 cord (dipped in hemodent) was placed for 20 minutes. The surgical site was rinsed thoroughly before removing the cord to minimize any bleeding. Impressioning and temporization were completed with no bleeding from the surgical site. [CDT code No. D4211 gingivectomy per tooth]

### Case #2:

Tooth #18 required full crown coverage to negate “cracked-tooth-syndrome.” The large distal wedge of tissue took 40 seconds to remove with several lingual to buccal passes. The tissue seems to cut more cleanly if the passes are always in the same direction.

The final chamfer margin was placed. Racord #10 with hemodent was placed for 20 minutes. The area was rinsed thoroughly before the cord was removed and a very clean quadrant impression was obtained.

A Bis-acryl temporary crown was placed and a photo was taken immediately to show tissue health and lack of necrosis or charring from the NTI® Soft Tissue Trimmer [CDT Code No. D04211 gingivectomy per tooth].