**VISUMAX (ZEISS MEDITEC) FLAP CREATION MADE EASY**

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**Overview**
- Settings
- Choice of cones
- Successful Docking
- Lifting of Flap
- Patient Selection
- Unusual Scenarios

**VisuMax: Eye Fixation**
- **Gentle Corneal interface design**
  - Non-applanating -- Spherical contact lens to cornea
  - Suction is only applied during actual laser procedure
  - Low suction pressure
  - Minimal IOP increase
  - No vision loss during suction
  - Automatic visual-axis centration

**Application of VisuMax: Choice of cones**
- **Recommended flap diameter:**
  - 7.9mm for S size
  - 8.5mm for M size
- **S Size:** min WTW < 11.8mm
- **M Size:** min WTW > 12.2mm
- **L Size:** min WTW > 12.7mm
  - WTW value is according to IOL-Master
**Application of VisuMax: Treatment Procedure**

**Treatment Mode:**
- **Standard**
- **Fast**
- **Expert**

**Standard Mode:**
- Spot Distance: 0.0030mm
- Track Distance: 0.0030mm

**Fast Mode:**
- Spot Distance: 0.0050mm
- Track Distance: 0.0050mm

**Expert:** Customisable. Surgeon can adjust spot and track distances.

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**SNEC Standard Settings**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Settings</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment Mode</td>
<td>Fast mode</td>
<td></td>
</tr>
<tr>
<td>Cone size</td>
<td>Small</td>
<td>Medium if WTW &gt; 12.0</td>
</tr>
<tr>
<td>Energy (energy offset)*</td>
<td>32</td>
<td>Higher for 1st case of the day</td>
</tr>
<tr>
<td>Flap size</td>
<td>7.9 mm</td>
<td></td>
</tr>
<tr>
<td>Thickness</td>
<td>115 microns</td>
<td>Thicker if K &gt;47</td>
</tr>
<tr>
<td>Side cut angle</td>
<td>85 degrees</td>
<td></td>
</tr>
<tr>
<td>Hinge angle</td>
<td>70 degrees</td>
<td></td>
</tr>
<tr>
<td>Hinge width</td>
<td>4.8 mm</td>
<td></td>
</tr>
<tr>
<td>Hinge position</td>
<td>Superior</td>
<td></td>
</tr>
</tbody>
</table>

*Energy offset is a compensating equivalent. 1 offset = 5nJ

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**Application of VisuMax: Treatment Planning**

**Preparing the Suction Cone**

1: Spot Distance  2: Track Distance

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Dr Rosman FRCS FAMS
Preparing the Eye

Applying the Suction Cone
- Move patient's eye towards cone
- Dry the eye just before contact
- Corneal contact
- Centration
- No conjunctiva
- Apply suction button
- At least 4 bars
- Wait for “Ready”
- Flap Cut with foot pedal

Visumax Procedure

Lifting of Visumax Flap
Patient Selection

- Almost all patients, esp
  - Females
  - Small palpebral apertures
  - Prominent nose
- Not preferred if
  - Patient tends to squeeze eyes or tears easily
  - Need thinner flaps
  - Need large flaps (H-LASIK)

Advantages of the Visumax

- Lower suction pressure – more comfortable
- No blackout
- Good centration with fixation light
- Absence of subconjunctival haemorrhage
- Good for small palpebral aperture

A presentation by...

Thank You