LASIK Surgery

One Use-Plus SBK
The Moria Option for SBK

Moria
Leading Innovations in Ophthalmology
Accuracy and predictability equivalent to Femto-SBK

<table>
<thead>
<tr>
<th>Surgeon</th>
<th>One Use-Plus SBK Flap thickness using ultrasound pachymetry¹</th>
<th>Flap thickness with Femto-SBK 60 kHz²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard Duffey, MD (Mobile, AL, USA)</td>
<td>100 microns</td>
<td>100 microns</td>
</tr>
<tr>
<td>Guy Kerizian, MD (Paradise Valley, AZ, USA)</td>
<td>103 microns</td>
<td>109 microns</td>
</tr>
<tr>
<td>Intended thickness</td>
<td>100 microns</td>
<td>109 microns</td>
</tr>
<tr>
<td>Average</td>
<td>103 microns</td>
<td>109 microns</td>
</tr>
<tr>
<td>Standard Deviation</td>
<td>9 microns</td>
<td>10 microns</td>
</tr>
<tr>
<td>Minimum</td>
<td>83 microns</td>
<td>N/A</td>
</tr>
<tr>
<td>Maximum</td>
<td>123 microns</td>
<td>131 microns</td>
</tr>
</tbody>
</table>

Smoother stromal bed surface with One Use-Plus SBK than with Femto-SBK¹

Scanning Electron Microscopy x160¹
After cutting a flap with One Use-Plus SBK with an intended flap thickness of 100 microns
Faster visual recovery
With One Use-Plus SBK than with Femto-SBK

Equivalent visual outcomes
to Femto-SBK at 1 month

Equivalent quality of vision
to Femto-SBK

Better biomechanical stability
With One Use-Plus SBK than with Femto-SBK
Greater patient comfort
with One Use-Plus SBK than with Femto-SBK

“...The pain occurred at a much lower frequency and intensity with One Use-Plus SBK in the first one to five hours after surgery than with IntraLase SBK.”

Richard J. Duffey, MD
Mobile, AL, USA

None of the reported complications of Femto-LASIK

Intraoperative:
- Potential laser eye tracking difficulties
- Macular haemorrhage
- Suction loss
- Strong adhesions, requiring manual cut-downs or recuts
- Interface gas bubbles escape
- Vertical gas breakthrough: subepithelial or anterior chamber gas bubble
- Opaque bubble layer
- Interface debris

Postoperative:
- Photophobia due to light hypersensitivity or TLS Syndrome
- Energy-related Diffuse Lamellar Keratitis
- Significant interface haze, involving retreatments
- Difficulties to lift the flap atraumatically for retreatments
- Post-operative pain 1-5 hours after surgery associated with gas diffusion through corneal tissue

The most economical platform for SBK

The cost of equipment, disposables and maintenance of the One Use-Plus SBK are a fraction of the costs associated with the femtosecond laser.

Make your own comparisons between the One Use-Plus and a femtosecond laser in terms of capital investment, disposables per patient, and annual maintenance.
Reported Advantages of SBK compared to conventional LASIK

• Less weakening of corneal biomechanics, less risk of ectasia, better stability
• Faster visual recovery
• Better quality of vision
• Fewer higher order aberrations
• Better contrast sensitivity
• Fewer complications, less glare, fewer halos
• Less incidence of post-operative dry eye
• Reduced loss of corneal sensitivity
• Greater flap thickness predictability
• Ability to treat more patients, and higher levels of myopia
• Can treat thinner corneas
• Reduced enhancement rate

Rationale

• Anterior third of the stroma is the strongest region of cornea. Less flap disruption in this region causes less weakening of the cornea
• Cuts fewer nerves
One Use-Plus

• Linear and automated microkeratome
• Pre-assembled and one-handed usage possible
• Outstanding ergonomics
• Safety and reliability of two independent motors:
  • one for head advancement
  • one for blade oscillation
• Design of suction ring makes the use of a speculum unnecessary on small fissures
• Translucent ring enables visual confirmation of suction
• Adjustable stops for customized hinge length
• Intra-operative visibility
• Evolution3E operates Epi-K™, the DSAEK system and all other Moria microkeratomes

A Single-Use head means unrivalled simplicity, safety, convenience, and ease-of-use:
• Protected blade to avoid potential damage
• Eliminates complications and risks linked to damaged or improperly maintained reusable heads
• Eliminates sterilization and maintenance
• More rapid patient turnover, leading to greater efficiency
• Lower initial investment costs
• Disposable heads and rings facilitate compliance with ASCRS guidelines -- which recommend not using flash sterilization

References:
1. Duffey RJ. Moria One Use-Plus SBK microkeratome: predictably thin, smooth, planar flaps for faster visual recovery. Presented at the 26th annual meeting of European Society of Cataract and Refractive Surgery; Sept 13-17, 2008; Berlin, Germany.
3. Durie DS. From basic science to clinical application: the development of SBK. Presented at the Sixth International Congress on Advanced Surface Ablation and SBK; May 5, 2007; Cleveland Clinic, Fort Lauderdale, FL, USA.