Ultrasonics in Endodontics

Prof Liviu Steier tests the NSK Varios 970 ultrasonic device to use in endodontics

Three different action modes are available: perio, endo, and general. They should be selected using the touchpad keys on the display. Once a modus is chosen, the power can be individually adjusted. The lower part of the display will show on the left a numerical display, and to the right side a bargraph indicator. The right side of the display shows the selected irrigation mode, and on the left, the selected bottle.

Range of power
The power range is set to allow action levels between 40 to 100 per cent for general use, 20 to 50 per cent for endodontics and 5-55 per cent for periodontics. Of course these are only suggestions by the manufacturer and may be altered. The selected power range will be shown as a numerical display, as well as a bar graph. To change this we will need to press the touchpad power level keys located above...
The unit has to be specially tested for the use in endodontics. Using the V-Tip system as well as the restorative tips allows for coronal access shaping. One could use diamond-coated endodontic tips at varying lengths to complement root-canal enlargement. The removal of foreign bodies is enhanced with the more rigid tips, while fractured instruments are removed with the flexible ones. Holder tips for irrigant-energising files are offered in 95 or 120-degree angulation, while files are offered in sizes ISO 15 to ISO 55. The manufacturer also offers a variety of retrograde tips for surgical endodontics.

To conclude, either using the device connected to the water line or independently, the self-cleaning programme will ensure that optional biofilm formation can be avoided.

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The Varios 970 can be used in Endodontics for coronal access shaping, for removal of posts, fractured instruments, energising irritants in the canal, and even condensation of the obturation. Having two independently bottled solutions, this allows for direct irrigation and energising of the last one-speeding up the chemical disinfection process.

**The result**
The ultrasonic unit is extremely powerful and satisfies any requirements. The different power settings and the extremely wide variety of offered tips make the Varios 970 suitable not only for endodontics, but also for periodontology as well as restorative. We have tried the use of other proprietary tipped devices connected to the water line or independently. The self-cleaning programme will ensure that optional biofilm formation can be avoided.

To reserve your FREE place please call Jen Smith on...

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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Venue</th>
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<tbody>
<tr>
<td>Tuesday 15th June</td>
<td>6.00 pm</td>
<td>Birmingham</td>
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<td>Tuesday 22nd June</td>
<td>6.00 pm</td>
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<td>Tuesday 29th June</td>
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Special Guest:

**Chris Barrow**

*If you've never heard Chris Barrow speak...then you're in for a treat. If you have, then you know you can expect the kind of straight talking, no-nonsense, practical advice that has helped countless dental practices to succeed and grow.*

As an added bonus, the event will deliver 2 hours CPD!

“The whole process is made easy for you with Practice Plan”

Gayna Horridge
Central Dental Care Centre

**About the author**

Dr Liviu Steier (PhD) is Specialist fuer Prothetik (www.dgzzmk.de) and specialist in Endodontics (DGZMK). He is an honorary clinical associate professor at Warwick Medical School and course director of the MSc in Endodontics (www.warwick.ac.uk/dentistry). He is a member of the Scientific Advisory Board for the Journal of Endodontics (AJAE) and maintains a private referral practice for endodontics, implantology, etc at 20 Wimpole Street, W1G 9EF London (www.msdentistry.co.uk).

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