All Planmeca's CBCT units support three different types of 3-D imaging, as well as extra-oral bitewing, cephalometric and digital panoramic imaging. This flexibility to switch between 2-D and 3-D allows clinicians to optimise their imaging and select the techniques that work best with each case. With proprietary features for imaging with ultra-low radiation doses and patient movement correction also available, Planmeca provides a completely unique dental imaging experience.

The Planmeca Ultra Low Dose protocol is the best method for acquiring CBCT images at low radiation doses, according to the company. It can be used with all voxel sizes and in all imaging modes and allows clinicians to gather more information than from standard 2-D panoramic images at an equivalent or even lower dose. All this is possible without a statistical reduction in image quality.1

Whereas Planmeca Ultra Low Dose protects patients from unnecessarily high doses, the new Planmeca CALM imaging protocol helps avoid retakes by compensating for movement. According to studies,2 patient movement may occur in up to 40% of cases, meaning that image quality is not optimal in a significant portion of CBCT scans. Planmeca CALM corrects artefacts caused by movement, resulting in sharper final images. The algorithm can be applied before the image is captured, as well as after the scan has been completed.

When purchasing a new CBCT unit, clinicians should ensure they request all the necessary information on the product. This would include accurate information on patient radiation doses and comparison of the differences in image quality between standard and low-dose images, as well as images with and without artefact correction. Making the right choice will lead to improved diagnostics, saved time, reduced costs and lower radiation exposure for patients.

References
1. Ludlow JB, Koivisto J. Dosimetry of orthodontic diagnostic FOVs using low dose CBCT protocol. Poster session presented at: 93rd General Session & Exhibition of the International Association for Dental Research; 2015 Mar 11–14; Boston, MA.
Strengthened composition and rounded cross section

GL153 Safe10 series: Stay true to form

An unavoidable truth of endodontics is that the root canal is a complex space to work in. Shaping root canals helps to make navigation easier, but the files used in this process can be prone to fracture as a result of cyclic or torsional fatigue. META BIOMED’s new GL153 Safe10 series is a set of instruments with exceptional resistance to fatigue, allowing you to navigate and clean long, tapered and complex canals more easily than ever before.

The GL153 files undergo a proprietary thermomechanical treatment that gives them a much greater resistance to fatigue. The controlled memory wire used in their manufacture has been verified by an independent scientific study to significantly increase the number of cycles before failure compared with other files on the market.

The strengthened composition and rounded cross section of the GL153 work to create a smooth, efficient path, shaping the root canal and preserving the surrounding tooth structure without risk of file separation.

META BIOMED’s standing as one of the dental industry’s primary innovators ensures that the GL153 is optimally designed for the practitioner’s and patient’s safety and comfort. The flute design of the files reduces the screw effect, greatly decreasing the likelihood of over-instrumentation. In addition, no elastic limits are exceeded, and there is no risk of taper lock when used in the recommended reciprocating motion with a constant downwards pressure.

Torsional fracture often occurs when a file tip becomes stuck in a canal and the shank continues to turn. With a flute length of just 10 mm, the GL153 Safe10 series promises that the apex of the tooth can be reached safely and that ideal root canal preparation is more achievable than ever.

"With its unlimited flexibility and excellent resistance to fracture, the GL153 Safe10 series represents our commitment to providing high-quality solutions for everyday dental procedures at a low cost," said Ian Yun, Managing Director at META BIOMED.

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