Despite well over 30 years in dentistry, there still exists considerable confusion amongst the profession and understandably patients about interdental cleaning. The who, how, when and what with, has as many answers as differences of opinion.

With 50 years of heritage, TePe UK (Booth 40) knows exactly the meaning of interdental space. While the terms proximal and interdental are used interchangeably by many but literally, the proximal surface or embrasure site is this (Fig. 1) and not the ID space which is literally the space in between the teeth (Fig. 2), the company says. Toothbrushes then, can reach both the embrasure and the proximal surfaces but cannot hope to reach the interdental space of the teeth when they are in the normal arch with full contact of the adjacent teeth meaning that tooth brushing alone will leave 40% of the tooth surfaces un-cleaned.

The toothbrush argument already dealt with, the confusion continues in regard to mouthwash. Patient surveys have revealed that patients believe that their toothbrushes clean interdentally as so does their mouthwash. Supragingival plaque control is essential for the maintenance of oral health. Despite the many chemotherapeutic agents available as mouthrinses, mechanical plaque removal is still the best method to achieve effective plaque control. This is in part owing to the lack of development of oral antimicrobials with the effectiveness and substantivity of chlorhexidine gluconate but without its adverse effects of dental staining and calculus formation.¹

Toothbrushing alone is not effective on interdental surfaces. Dental floss and interdental brushes are the effective tools for biofilm disruption in the ID space.²,³ If there is loss of attachment then an IDB is superior to floss in terms of plaque removal and reduction in BOP and pocket depths.⁴ Moreover, at the XI European Workshop in Periodontology held in March of this year, Europe’s leading periodontal specialists met and agreed wide ranging guidelines on the prevention of gum disease. One of the most significant of these is that daily use of interdental brushes have proven efficacy in maintaining gum health and are preferable to flossing wherever possible.

According to TePe, it is all about the space and dental professionals owe it to their patients to be clear on what we mean by interdental cleaning in the interdental space. The task of finding the right tools with which the patient is able (and willing) to clean that ID space is quite another matter. However, there are plenty of effective high quality choices out there, we just need to ensure that we are clear about where we want them to clean, how, how often and what with, TePe says.⁵

CDC

ANTHOGYR PRESENTS FIRST INSTRUMENT FOR AUTOMATIC OSTEOTOME

A solution for performing osteotomies through impacted crestal access, Osteo Safe from Anthogyr can be used for all indications related to implant site preparation and bone remodelling in the context of vertical bone augmentation.

A pre-calibrated automatic impaction instrument, it is connected to a micromotor and is simple and quick to use owing to the sequence of four osteotomes for the placement of Axiom REG/PX implants.

Reproducible and precise, Osteo Safe allows controlled and regulated movement during impaction. Clinicians can also hold the instrument with just one hand for improved visibility during implant surgery. Since it is atraumatic, it offers improved patient comfort and better safety, the company said.

In addition to Osteo Safe, Anthogyr has a number of other instruments and dental implants on display at Europerio.

ANTHOGYR, FRANCE
www.anthogyr.com
Booth 39c

PLANMECA COMBINES CAD/CAM WITH 3D CBCT DATA IN ONE SOFTWARE

With the combination of CAD/CAM solutions and X-ray units in the Planmeca ProMax 3D imaging family, dental professionals can now bring together a wider range of information for treatment planning and diagnostic purposes.

According to the manufacturer, the Planmeca Romexis software platform opens new doors in creating a new standard of care for patients by offering high-quality features for different specialities, including implant planning and other restorative treatments, all available through one software interface.

Planmeca ProMax 3D imaging units reveal intricate information on soft and hard tissue structures, including the mandibular nerve canal, while the Planmeca PlanScan intraoral scanner captures precise data above the gum line. The combination of these data helps build a complete understanding of any case and makes 3-D prosthetic designing quick, accurate and easy, the company said. Clinics are able to operate more flexibly, as restorations can either be milled at a clinic with the Planmeca PlanMill 40 milling unit, or easily sent to a dental lab in an open STL data format.

Standardised data is the driving force behind many of the latest developments in digital dentistry, as it guarantees the interoperability of images and dental data across different hardware platforms. Bringing Planmeca’s CBCT and CAD/CAM systems together through the Planmeca Romexis software platform makes effective chairside dentistry a reality and presents dentists with a streamlined opportunity to substantially grow their practice. A streamlined digital workflow also ensures the full utilisation of resources, according to Planmeca, leading to a more efficient treatment environment.

Instead of two visits, patients can be treated in one hour and with no temporary crowns or physical dental models required.

PLANMECA, FINLAND
www.planmeca.com
Booth 37c
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NOBEL INTRODUCES COMPLETE POSTERIOR SOLUTION

Adressing all problems a clinician faces when restoring a single tooth in the posterior region, Nobel Biocare is trying to bring innovation back to the posterior region with its new complete posterior solution. Multiple Nobel Biocare novelties combine to make this solution complete, but the foundation for treatment success is the implant itself, the company said. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior. A new variant offers the benefits of the NobelActive family but with dimensions ideal for the molar region. The NobelActive WP (wide platform) implant possesses a wider diameter implant body (5.5 mm) to better fit the large extraction sites in the molar region and a wider implant platform for an optimal emergence profile. NobelActive WP also offers an option with a shorter body (7 mm) to avoid critical anatomical structures such as nerves.

Alternatively, clinicians can opt for Nobel Conical Connection (CC). Combining a parallel-walled implant body that is well documented with an advanced internal connection, this implant offers extraordinary flexibility. It is engineered for use in all bone qualities and for a wide range of indications. The 5.5 mm wide platform option is designed for an optimised emergence profile for large molar sites specifically for the posterior. These include the new PEEK Healing and PEEK Temporary Abutments, which are anatomically shaped to match the molar contour.

New implants also benefit from Nobel Biocare’s internal conical connection. This advanced connection’s conical seal and hexagonal interlocking mechanism provide high mechanical strength. It offers restorative flexibility too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those designed for an optimised aesthetic result complete, but the foundation for treatment success is the implant itself, the company said. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior. A new variant offers the benefits of the NobelActive family but with dimensions ideal for the molar region. The NobelActive WP (wide platform) implant possesses a wider diameter implant body (5.5 mm) to better fit the large extraction sites in the molar region and a wider implant platform for an optimal emergence profile. NobelActive WP also offers an option with a shorter body (7 mm) to avoid critical anatomical structures such as nerves.

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In addition to a market compatible octagon connection with conical internal configuration, the abutments are also available in pink colour (matching the implant tulip) and anodised in order to support aesthetics even in prosthodontic applications. For the purpose of optimally shaping the gingiva already in the early stages of treatment, TRI Dental Implants has developed two novel healing abutments for direct suturing of soft tissue and one based on PEEK which can be individually adapted to the gingival situation.

"We are excited and proud to present the new product line for better aesthetics to our partners in the market," stated TRI CEO Tobias Richter.

TRI LAUNCHES TRI ESTHETIC LINE WITH PINK TISSUE LEVEL IMPLANT

In the occasion of EuroPerio8 in London, the up and coming Swiss dental implant company TRI Dental Implants launches the TRI Esthetic Line with new products for an optimised aesthetic result complete, but the foundation for treatment success is the implant itself, the company said. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior. A new variant offers the benefits of the NobelActive family but with dimensions ideal for the molar region. The NobelActive WP (wide platform) implant possesses a wider diameter implant body (5.5 mm) to better fit the large extraction sites in the molar region and a wider implant platform for an optimal emergence profile. NobelActive WP also offers an option with a shorter body (7 mm) to avoid critical anatomical structures such as nerves.

In a study conducted by the University of Zurich, the improved translucency levels for the implant shoulder were compared to the alternative and common materials and confirmed by first results. Extending TRI’s Implant Bone Level System, aesthetics are improved in the anterior as well as posterior area.

The combination of the smallest voxel size available on the market (75 µm) and the in-house developed SHARP and STAR filters is supposed to ease the use of the device and make diagnosis more reliable. According ACTEON, X-Mind trum has four FOV sizes ranging from 640 x 40 to 8110 x 80 mm to limit the exposure on the region of interest. The FOV are native and not stitched, the company said.

Owing to a patented mechanism, the secondary collimation does not need to be on the cephalometric arm. The positioning of the patient on the cephalometric module can therefore be easier and faster. Furthermore, the arm can be shorter giving the X-Mind trum one of the smallest footprints for a cephalometric product. Clinicians can operate the device easy and intuitively with the ACTEON Imaging Suite (Windows and Mac OS X). Its open architecture makes it compatible with most of the Patient Management Systems of the market. The import/export of DICOM 3 and STL gives it full compatibility with CAD/CAM systems or external implant planning software.

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X-MIND TRIUM

ACTEON presents its new X-Mind trium dental panoramic, which is upgradable to 3D (CBCT) and/or cephalometry. It has a full range of medium FOV size for the realisation of the 2D and 3D examinations, which makes it the perfect tool for implant surgery, endodontics, orthodontics, periodontal treatment, as well as general dentistry and ENT.

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ACTEON GROUP, FRANCE
www.acteongroup.com
Booth 8, H59

TRI PLANTS for an optimised aesthetic result complete, but the foundation for treatment success is the implant itself, the company said. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior. A new variant offers the benefits of the NobelActive family but with dimensions ideal for the molar region. The NobelActive WP (wide platform) implant possesses a wider diameter implant body (5.5 mm) to better fit the large extraction sites in the molar region and a wider implant platform for an optimal emergence profile. NobelActive WP also offers an option with a shorter body (7 mm) to avoid critical anatomical structures such as nerves.

In a clinical scaling simulation conducted by the Finnish Institute of Occupational Health, LM-ErgoDense was rated as the best instrument owing to its enhanced grip, comfort and functional design. It is the smart instrument that offers the possibility to integrate an advanced RFID chip into its handle. In combination with a reader and software it creates the unique LM Dental Tracking System.

"The ability to use an angulated screw channel (ASC) allows the screw access hole on the FCI Implant Crown to be placed anywhere between 0° and 25° in a 360° radius. This means it can be angled towards the front of the mouth for easy access, even in the posterior. It also helps avoid placing the access channel on the cusp of a tooth, where it could affect occlusion. The associated Omnigrip Screwdriver further simplifies work on the restoration. Its effective pick-up function and secure grip on the screw help the clinician to work safely and efficiently.

natural looking tooth color is another benefit offered by the FCI Implant Crown. Whatever of the eight available shades is used, the color is applied throughout the material. This means discoloration is not a concern when making adjustments. Cutbacks and staining can also be used to achieve the desired aesthetic effect.

NOBEL BIOCARE, SWITZERLAND
www.nobelbiocare.com/
bringinginnovationback
Booth 4, H52

A number of scientific studies have shown that ergonomics are crucial when it comes to instrument grips. According to the Finnish manufacturer LM-Dental, a hand instrument with a large diameter and a silicone coated handle is the best choice in order to ensure a comfortable grip and to decrease work related musculoskeletal strain. In a study, titled "Evaluation of ergonomics and efficacy of instruments in dentistry", which was published in the 6/2013 issue of the Ergonomics Open Journal, this approach was confirmed by participants choosing LM instruments over competitive products in all 18 usability criteria.

In response to the increasing demand for ergonomics and efficiency, LM-Dental recently introduced new hand instrument that combine ergonomic design and RFID technology at the Interna-

tional Dental Show in March. The outcome of intense research and product development in collaboration with dental clinicians, it is now available at EuroPerio8 in London.

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