Tissue integration made easy

Most dental implants today are made of a single material, although integration into hard and soft tissue requires different materials. Because of this, the TBR Group in France has redefined dental implants and developed a hybrid system that optimises integration in both bone tissue and gingiva.

The result of this process will be exhibited at IDS 2009: the TBR Hybrid implant. This one-stage titanium implant with a zirconia trans-gingiva collar promises to be more resistant than a regular titanium implant because it combines the mechanical advantages of titanium in flexion and those of zirconia in compression, the company says.

According to Julien Benhamou, CEO of the TBR Group, following over seven years of studies and articles in the Journal of Oral and Maxillofacial Implants and the Journal of Applied Biomaterial and Biomechanics, his company found that zirconia is an optimal material for gingiva-integration because, compared with titanium, it features no significant bacterial colonisation. Additionally, it is dense, smooth as glass, and offers perfect ivory transparency for high aesthetic results.

“Titanium is recognised as a very adapted material for bone integration, but we saw that it was not the best material for gingiva-integration with regard to bacterial colonisation, grey transparencies, and aesthetic results,” Benhamou said.

TBR’s new hybrid zirconia-titanium technology, which received the Frost and Sullivan Award for Technological Innovation in 2007, is available in 45 countries and will be shown at IDS 2009 in Cologne. It is CE certified and has received clearance from the US Food and Drug Administration.

www.tbr-group.com

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Cranberry Naturale (DTE/Cranberry)

TBR Hybrid implant (DTE/TBR)

A ‘First Touch’ with new glove from Cranberry

At IDS 2009, Cranberry USA will present the latest in their range of high-quality nitrile medical gloves. The new Naturale, which is in-line with the company’s mission to design and market products with dental professionals’ health in mind, is the only Low Derma glove approved by the US Federal Food and Drug Administration, with low allergy and dermatitis potential due to the absence of accelerator chemicals, latex protein, and sulphur. Additionally, the glove features improved stretch for more comfort and good tensile properties for maximum protection.

According to the company, Naturale has passed chemotherapy drug permeation, viral penetration, and skin-sensitivity testing. Each pair of gloves is manufactured, examined, and packaged with zero direct skin contact exposure—the ‘First Touch’ approach—to prevent potential cross-contamination at source. In an average manufacturing process, a pair of gloves may be exposed to human skin up to eight times.

Naturale will be available from Cranberry to customers in the US and through dealers worldwide. www.cranberryusa.com