Bringing innovation back

Nobel introduces a ‘complete posterior solution’

By Nobel Biocare Staff

Large extraction sockets, limited accessibility, tough-to-remove excess cement and high occlusal forces. These are just some of the challenges a clinician faces when restoring a single tooth in the posterior. And, with molar replacement being among the most common indications, these challenges are encountered repeatedly.

A solution that addresses all these problems in an efficient and predictable way will make life easier for dental professionals and patients. That’s precisely why Nobel Biocare is bringing innovation back to the posterior region with its new complete posterior solution—an original combination of new wide-platform implants and restorative options, all specially designed for molar sites.

An implant like no other

Multiple Nobel Biocare innovations combine to make this solution complete, but the foundation for treatment success is the implant itself. Here Nobel Biocare offers several options, each engineered for the specific demands of the posterior. All are intended to shorten time for the patient by enabling immediate loading whenever possible.

One option is NobelActive. Many clinicians are already familiar with this award-winning implant. Its distinctive design and the surgical protocol form a unique combination that can enable immediate function in cases where it might otherwise not be achievable.5,6

To condense bone gradually, its tapered body features threads that narrow towards the apex, while the apex itself features drilling blades to preserve bone by allowing a smaller osteotomy. These features are all designed for high primary stability, even in soft bone and extraction sockets.

Now, a new variant offers the benefits of the NobelActive family but with dimensions ideal for the molar region. NobelActive wide platform (WP) 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 comes in an option with a shorter body (7 mm) to avoid critical anatomical structures, such as nerves.

Stability and flexibility in parallel

Alternatively, clinicians can opt for NobelParallel Conical Connection (CC). Combining a parallel-walled implant body that is well documented with an advanced internal connection, NobelParallel CC 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 optimized emergence profile for large molar sites.

Both experienced clinicians and those early in their implant careers will appreciate NobelParallel CC’s straightforward surgical protocol. It offers flexibility and shortened treatment time, benefitting the patient too. Together, the surgical protocol and implant design form a unique combination that’s intended to allow immediate function in more cases by providing high primary stability. The thread design and tapered apex of NobelParallel CC are designed for underpreparation of the surgical site and bicortical anchorage — techniques that support immediate loading.4,5

High stability during the initial healing phase is then maintained by Nobel Biocare’s unique TiUnite surface.6 In addition, patented grooves enhance osseointegration for a predictable end result.

Connecting strength and flexibility

Both new implants benefit from Nobel Biocare’s internal conical connection. This advanced connection’s conical seal and hexagonal interlocking mechanism provide high mechanical strength.4 It offersrestorative flexibility too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those designed specifically for the posterior.

These include the new PEEK Healing and PEEK Temporary Abutments, which are anatomically shaped to match the molar contours. As the PEEK Abutments come ready-shaped for an optimized emergence profile, fewer adjustments are needed. This can simplify treatment and reduce costly chair time.

The crown that ‘rules them all’

When it comes to the final restoration, the FCZ (full-contour zirconia) Implant Crown is designed for strength and predictability even under the high occlusal forces of the posterior. There’s no worry about chipping either, as the full-contour nature of the NobelProcera FCZ Implant Crown removes the need for veneering.

The biocompatibility of the materials used contributes to biological stability in the areas where it matters. Plus, being screw retained, the FCZ Implant Crown is completely cement free, avoiding the risks associated with cement excess entirely. Even the titanium adapter is mechanically retained.

The ability to use an angulated screw channel (ASC) allows the screw access hole on the FCZ Implant Crown to be placed anywhere between 0 and 25 degrees in a 360-degree 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 cusps 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 FCZ Implant Crown. Whichever of the eight available shades is used, the color is applied throughout the material. This means discoloration isn’t a concern when making adjustments. Cutbacks and staining can also be used to achieve the desired esthetic effect.

Several components, one complete solution

While each product within Nobel Biocare’s complete posterior solution stands out on its own, they stand stronger together. Like all Nobel Biocare innovations, they are tested together as one system, as they exist in the patient’s mouth.

Combining Nobel Biocare components means all elements are designed to work in synergy for the optimal treatment outcome. Restoring single molars represents a clinical challenge for many reasons, but now, by uniting new and proven innovations, Nobel Biocare has the answer.

Find out more at nobelbiocare.com/bringinginnovationback.

References are available upon request from the publisher.
Straumann introduces a flexible collagen membrane that’s easy to handle and place

By Straumann Staff

Straumann is once again expanding its portfolio of regenerative solutions to better meet customer needs. Now, Straumann® Membrane Flex™ joins Straumann® Membrane Plus™, Straumann® XenoGraft, Straumann® AlloGraft, BoneCeramic™ and Emdogain™ to provide a single trusted source for dental implant and regeneration needs, according to the company.

A quick look at Membrane Flex
- Desirable handling characteristics.
- Because it’s not side specific, it’s easy to handle and to place.
- With outstanding flexibility, it easily drapes over defects and naturally conforms to contours.
- Flexibility as it can be easily repositioned for precise placement.
- Can be placed dry or hydrated.
- Even when hydrated, does not adhere to gloves or instruments.
- Takes sutures or tacks with ease, for simple yet secure fixation.
- Dependable strength.
- Proven biomechanical strength enhances fixation assurance.
- In pre-clinical testing, the suture pull out strength was three times higher than a similar product.
- Because of its significantly higher suture pullout strength, can be firmly anchored to surrounding tissue with minimal risk of tearing or detachment.

Supports wound healing
- Biocompatible because it’s meticulously manufactured from highly purified intact porcine collagen and minimally cross-linked for predictable resorption.
- Reduced degree of inflammation and foreign body response as compared to other similar products in pre-clinical testing.
- Protects the graft area from unwanted soft tissue infiltration during the initial phase of healing while still allowing for healthy nutrient transfer.
- Resorbs predictably over three to four months as new host collagen is simultaneously regenerated.
- With a slower initial rate of resorption than other similar products, it provides greater initial stability during the critical early weeks of healing.
- Shown through in vitro and in vivo pre-clinical testing to exceed many of the performance characteristics of other similar products.
- Available sizes: 15 x 20 mm, 20 x 30 mm, 30 x 40 mm

This new offering — along with other recent additions to the Straumann portfolio — is one of the latest products the company provides customers with for a total solution that yields patient satisfaction and practice success.

To learn more about the new Straumann Membrane Flex, visit www.straumann.us/bone/

* Data on file with manufacturer

About Straumann
Headquartered in Basel, Switzerland, Straumann (SIX: STMN) is a global leader in implant, restorative and regenerative dentistry. In collaboration with leading clinics, research institutes and universities, Straumann researches, develops and manufactures dental implants, instruments, prosthetics and tissue regeneration products for use in tooth replacement and restoration solutions or to prevent tooth loss.

Photo/Provided by Straumann