NobelDesign
Powerful CAD tools for dental restoration without complexity first presented in New York

by Nobel Biocare

For decades, Nobel Biocare has been redefining the work of dental technicians around the world with NobelProcera. The system became a benchmark, paving the way to accurate, consistent and efficient manufacture of dental prostheses. Because of NobelProcera, new materials once thought impractical and difficult to work with became the mainstream, enabling restorative solutions with high strength and esthetics.

Creating outstanding restorations made easy

When it comes to creating restorations, there is real power in the NobelDesign toolbox. Numerous robust and automated applications are included in the software’s base module, assisting dental technicians with the design of crowns, abutments and bridges. Tools are also available that provide users with insight into how their restorations will look and function in patients’ mouths.

Now, Nobel Biocare has introduced the next benchmark, NobelDesign Software, which combines advanced CAD tools with an intuitive and adaptive interface. With NobelDesign, dental laboratories gain access to the latest NobelProcera restorations, enabling them to deliver a wider range of precision-engineered prosthetic solutions to dental clinicians and their patients.

Familiar friend, powerful ally

The intuitive NobelDesign interface supports a simplified workflow that allows dental technicians to create, scan and manage multiple cases with ease. Best of all, it adapts to each user’s preferred way of working, increasing workflow efficiency over time.

For many dental technicians, NobelDesign will seem familiar and, at the same time, fresh. NobelDesign integrates well-known exocad CAD tools for the efficient design of cemented and screw-retained restorations, accessed via the NobelDesign Cockpit.

Once cases have been set up and scanned into NobelDesign, libraries filled with archetypal teeth, crowns, bridges and implants provide excellent starting points from which dental technicians can create their own patient-specific restorations.

Another way to accelerate the design workflow in NobelDesign’s Mirror Tooth function. With it, dental technicians use a mirror image of the shape and anatomy of the contralateral quadrant of the target tooth. This copy, or diagnostic tooth, forms the basis upon which they design the patient-specific restoration.

Ethetics are important, but function is the ultimate goal. For testing function in the virtual environment, NobelDesign offers the Virtual Articulator feature. This application allows users to view their designs in a patient’s complete dentition. Articulated movements visualize and predict occlusion, helping dental technicians confirm prosthetic fit.

During the design process for screw-retained restorations, the screw access hole is typically predetermined based on implant placement. However, in cases in which aesthetics would be sacrificed or fixation of the restoration could be difficult, a dental technician can adjust the angulation of the screw access hole within the restoration. With this option, screw access can be angled from 0° to 25° in a 360° radius. This can enable the use of a cement-free restoration in situations in which this might previously have been impossible.

Another tool allows users to create a cut-back for their restoration to aid with veneer positioning. With NobelDesign’s Stabilizing feature, the technician can easily select which area to cut back, depending on whether he or she wants to fully or partially veneer the restoration.

During the final stages of restoration design, dental technicians can employ the exocad TruSmile technology incorporated into the software. This feature renders restorations with photographic realism, displaying final tooth shape and fissure design. This is virtual reality at its best, the closest representation of a restoration’s appearance once seated in the patient’s mouth.

The future of CAD/CAM

As the latest milestone in Nobel Biocare’s ongoing advancement in CAD/CAM, all forthcoming NobelProcera innovations will only be available through NobelDesign. While current NobelProcera CAD users can continue to use their existing systems, NobelDesign will offer an increasing number of advantages. Additional features are already in development, as is enhanced integration with other solutions.

NobelDesign is accessible only in combination with the highly accurate NobelProcera 2G Scanner and is available on an annual subscription basis. This gives dental laboratories added flexibility by helping them avoid a sizeable one-time payment to start.

World-class support, high-end results

As a leading dental solutions provider, Nobel Biocare offers unparalleled support to its dental partners with NobelDesign. World-class support, high-end results. Based on user feedback, the suite of applications available in NobelDesign not only assists dental technicians in their pursuit of prosthetic perfection, but also makes their work easier and more rewarding.

More to explore!

More information about NobelDesign is available at www.nobelbiocare.com/nobeldesign. There will be two hands-on courses for NobelDesign today at the Nobel Biocare Global Symposium. A basic hands-on course, in which participants will have the opportunity to create superior restorations with the new NobelDesign software, will be held from 6 to 10 a.m., and an advanced hands-on course with the same focus will take place from 11 a.m. to 1 p.m.
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NobelZygoma
Zygomatic implants for graftless treatment of severe maxillary resorption

For patients with severe maxillary resorption, extensive grafting procedures can mean lengthy treatment times—but there is an alternative. By anchoring in the zygomatic bone, the NobelZygoma implant system can enable an immediate loading protocol for graftless treatment. This dramatically shortens time to teeth for increased patient satisfaction and allows patients with severely resorbed maxillae to return to a normal quality of life. Moreover, it offers a broad choice of prosthetic options.

High primary stability for immediate function
Nobel Biocare’s zygomatic implants are designed to achieve high primary stability. This allows patients with severe bone loss to have a fixed provisional prosthesis fitted immediately after surgery, avoiding the average nine-month wait and multiple surgeries required with grafting. Immediate function with zygomatic implants has other benefits besides shorter treatment time, such as fewer clinical visits and a less invasive intervention compared with grafting procedures.

NobelZygoma implants are the most documented zygomatic implant solution on the market for the severely resorbed maxilla. Not only does the procedure avoid complex bone grafting, but NobelZygoma implants have also shown remarkable survival rates in a long-term study with an average implant cumulative survival rate of 95.12 percent after ten years.

Surgical flexibility
Building on 25 years of success with Nobel Biocare’s zygomatic implants, the new NobelZygoma implants anchor in zygomatic bone and provide an excellent option for treating severe maxillary resorption without bone grafts. They have an unthreaded implant body designed to interface with soft tissue, and depending on the anatomical situation, parts of the implant body can be located outside of the maxillary sinus.

For extramaxillary placement, the coronal part of the implant should still have bone support. This technique enables a position of the implant head close to the crest of the alveolar ridge that facilitates a prosthetic procedure, which in turn offers easier cleaning and better comfort for the patient while improving phonetics.

The implant of choice for severely resorbed maxillae
The zygomatic implant has become the implant of choice for cases of severely resorbed maxillae. Without this implant, many patients would otherwise require invasive grafting procedures to establish adequate bone volume for the placement of conventional implants. Zygomatic implants help avoid grafting and shorten treatment time, with significant improvements in function and aesthetics. The zygomatic concept addresses the needs of this patient group by providing the implant surgeon with more treatment options for the edentulous maxilla.

References:

For more information, please visit www.nobelbiocare.com/nobelzygoma.