Nobel Biocare’s collaborative workflow to offer a fully digital restoration on the day of surgery

The next phase of Nobel Biocare’s integrated treatment workflow will launch in CE-mark-accepting countries in the summer 2017. The updated workflow has been developed to improve collaboration between treatment partners while increasing both treatment efficiency and acceptance. It will offer a time-efficient protocol for providing screw-retained provisionals on the day of surgery through the fully digital design and in-lab production of a TempShell temporary restoration.

As with the current integrated workflow, the clinician will take a CBCT scan in line with their usual diagnostic procedures. This scan information will then be combined with STL data from either an intraoral scanner or other surface data from a digitised model based on a conventional impression. This hard- and soft-tissue data can be combined effortlessly using the SmartFusion function in the NobelClinician software to provide a detailed visualisation of the anatomical situation. The clinician can then diagnose and plan the implant treatment based on accurate intraoral tissue information and the underlying anatomy. The planning process will be made even more efficient by the introduction of the SmartSetup feature. This will automatically create a digital wax-up for the teeth identified as missing, allowing an appropriate prosthetic-driven treatment plan.

The final treatment plan can then be used to order a surgical template for pilot-drilling or fully guided implant placement.

In the new collaborative workflow, the clinician will be able to share the NobelClinician treatment plan via the cloud to a partner laboratory that is using the DTX Studio design software. The lab can then use information from the digital plan to finalise the provisional design for the TempShell. This can be produced in-lab and sent directly to the clinician. As the provisional restoration was produced based on the digital treatment plan, the technician can be confident it meets the needs of both the clinician and the patient.

On the day of surgery, the clinician then places the implants and adjusts the TempShell restoration chairside to form a passive-fitting, screw-retained provisional.

This updated workflow will not only allow more efficient work and collaboration for clinician and the lab, but reduce time-to-teeth for the patient, allowing them to leave the dental office with a personalised, screw-retained provisional restoration on the day of surgery.

Important note: The new workflow described above is due to launch summer 2017. It is not yet available for dental professionals and does not yet have all required regulatory clearances. For information about Nobel Biocare’s collaborative treatment workflow, please visit nobelbiocare.com. Please note that immediate loading protocols should only be followed when the relevant clinical requirements are met.

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Expanding your treatment options while increasing profitability and productivity
Digitalisation is impacting the world of dentistry immensely as it becomes one of the most innovative and fastest growing areas in the field. Completely new concepts are changing the way in which dental businesses are operated. This dynamic shift allows lab owners and dental practitioners to adapt their business model to better match patients’ ever increasing expectations. New software and hardware advances are substantially changing the way dental restorations are carried out these days, and a digital workflow provides a competitive edge by expanding your treatment options while increasing profitability and productivity. Our mission, therefore, is to provide dental professionals with the most efficient and comprehensive solutions. Through its digital competence centres, as well as strategic collaborations based on the open standard philosophy and partnerships (i.e. Dental Wings, Amann Girrbach, 3Shape, etkon and Createch), Straumann has become the leading provider of dental digital technology worldwide, always offering its customers state-of-the-art solutions and comprehensive support.

State-of-the-art dental equipment with digital technology and premium materials
Nowadays, a trend can be observed in the dental field whereby standard implant prosthetics are substituted with individualised, digitally designed and manufactured components. Computer-aided design and manufacturing (CAD/CAM) for tooth- and implant-borne prosthetics seems to be more efficient than conventional methods. The Straumann CARES Digital Solutions represent a unique and valid offer for dental labs and dentists who wish to have easy access to dedicated dental digital excellence, comprehensive support for their individual workflow, followed by fast amortisation, safe investments and a fairly free choice of vendors and equipment. The Straumann CARES Digital Solutions combine state-of-the-art dental equipment with digital technology and premium materials to provide a seamless, open and fully validated workflow for dental professionals. It represents a complete dental solution, from digital impression-taking by means of intraoral scanning to the computerised production of prosthetics using state-of-the-art CAM processing.

Offering for dental labs
For dental labs, Straumann provides an all-round solution complemented by our high-volume, high-precision centralised milling service. This include scanning, milling and 3-D printing devices, accompanied by software for their efficient operation, as well as consumables and comprehensive service. Straumann offers different series of laboratory milling and grinding machines for in-house operation. They are designed to provide reliable and predictable precision when milling glass ceramic and hybrid materials for a wide variety of indications. Prosthetics can be milled or ground in wet or dry modes from different materials, including glass ceramic, zirconia, PMMA, cobalt chromium, sinter metal, wax, lithium disilicate, ceramics and resin nano ceramic. In addition to this, Straumann successfully manufactures the glass ceramic, n!ce. Its key advantages are high translucency and flexural strength, short milling times and easy finishing.

Offering for dental practices
For dental practices, Straumann provides a comprehensive portfolio of integrated solutions, including leading chairside scanning, milling and 3-D printing technologies. Our offer combines interconnected software platforms, open and fully validated workflows, together with a wide variety of materials—truly a benchmark in digital dentistry. Every product features state-of-the-art solutions for its efficient and successful use. For example, intraoral scanning, an emerging technology that will have a substantial impact on the future of dentistry, enables the dental practitioner to create a 3-D image of the patient’s teeth, resulting in a highly efficient, precise process that is also more comfortable for the patients. Using our devices, customers can successfully design a wide range of restorations: from simple copings to complex full-arch implant restorations.
EGS presents new products at IDS 2017

With a huge turnout and appreciation from visitors, EGS confirms and consolidates its status as leading 3-D scanners manufacturer in the dental industry through innovative CAD/CAM solutions for both dental laboratories and for dental clinics.

During the International Dental Show 2017 (IDS), EGS presented a wide range of innovations showing to have perfect solutions for those looking for products easy to use but able to efficiently cover the entire workflow in digital dentistry.

In order to show the capability and innovative potential of the company to the international market, EGS unveiled its new range of products that combines state-of-the-art 3-D technology with in-depth dental expertise to provide cutting edge solutions for modern digital dentistry and much more.

“LoScanner”, strong suit and newest advocate of its range of high performing 3-D scanners, is about to revolutionise dental 3-D scanners as we know them. A quick glance at this digital dentistry masterpiece is enough to understand that its innovative, high-profile design is something previously unseen among scanners of this kind. EGS took on the ambitious task to bring a beautifully designed object on a working space, a piece whose looks and structure will amaze even before its functionality has had a chance to do so.

EGS shed light also on the novelties brought by the latest versions of its CAD software and scanners, which further increase the accuracy, simplicity, flexibility and reliability of the earlier releases.

EGS’ structured light 3-D scanner, DScan 4, features an intuitive Plug & Play installation and Blue LED technology, which allows faster and more reliable scans, with customisable acquisition strategies, high accuracy and projection speed of 25 fps. DScan 4 is a high precision tool, specialised in the acquisition of three-dimensional surfaces for all kinds of dental models, removable multi-die models, abutments, scan-bodies, implants, bite/antagonist, impressions and verticulator, ensuring accuracy and reliability. Thanks to a smart geometrical arrangement of the optics and its special plate, the calibration of the optics and axis is done automatically in a few minutes. To provide the utmost usability, all acquired data can be exported to common formats such as STL, PLY, OBJ, ASC, easily readable by any CAD/CAM system.

Pioneer of digital dentistry’s CAD modelling software, EGS also presented the upgrades brought by the new release of DentalCad 6, an open and customisable system that integrates a compatibility converter to make the import/export of STL files with an automatic, simple and intuitive wizard. The latest version of the software provides even higher flexibility thanks to the new “library manager”, which allows users to take advantage of a fully customisable dental library. Another feature that strikes a chord in the new DentalCad 6 is the implementation of “hybrid jobs”, a novelty that allows the possibility to operate on various dental works on the same arch or double arch and the model builder.

The software features a range of modules designed to fit specific needs: the implant module for the design of abutments, the virtual verticulator for check of dynamic occlusion, the bars module for the design of simple and advanced bars, and the provisional module for temporary crowns and bridges.

EGS offers a perpetual license with no obligatory fees, while providing regular free-of-charge updates that grow the software’s value over time. These capabilities, together with the CAM integration in a single graphic interface, make DentalCad 6 a customisable and comprehensive solution for 3-D printing, milling and laser sintering that is suitable for all users, regardless of their level of digital expertise.

EGS is an Italian company with over 15 years of experience in the CAD/CAM industry. Always at the forefront in offering innovative solutions, it is recognised worldwide for its expertise in 3-D technology. EGS designs, develops and manufactures entirely in-house products for the OEM market, to ensure full control of the process, safety and quality. It works closely with partners and offers complete customisation of hardware and software possibilities.

For more information please check the EGS website: www.dentalcad.egsolutions.com/eng/