

update

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Cementation Navigation System:

The way out of the cements maze

The Cementation Navigation System is a new multimedia application from Ivoclar Vivadent which offers dentists practical orientation and guidance in selecting the luting material that best fulfils the individual cementation needs.

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COMPETENCE IN ALL-CERAMICS



A wide range of products are available for fabricating and cementing lab-made restorations. In many cases, it is quite challenging to find the best combination of products for the case at hand. The Cementation Navigation System (CNS), the new multimedia application from Ivoclar Vivadent, guides dental professionals out of this maze of cementation products. CNS helps users to find the most suitable

luting material for almost any cementation problem, irrespective of the substrate: tooth structure or implant abutments. In addition, CNS shows all the benefits offered by the luting cements from Ivoclar Vivadent.

Clear and detailed animations give the user a comprehensive tour of the procedure, starting with removal of the temporary restoration and ending with topical fluoride application.

More than 200 animated instructions

The multimedia application contains more than 200 detailed step-by-step animations that show how to use one temporary luting cement and six different permanent cements. The download page includes brochures, scientific documentation, Instructions for Use and step-by-step illustrated instructions for individual cementation cases. Moreover, clinical case documents on the individual luting cements are available from the Media Gallery.

The Cementation Navigation System is accessible online under www.cementation-navigation.com or may be obtained in the form of a DVD. As of autumn 2011, it will be available as an app from the iTunes store.



The Cementation Navigation System is also available as a DVD.



Excerpt from an animated sequence

Editorial



Dear Reader

The 34th International Dental Show IDS 2011 was a very successful event. Everybody working in the dental industry left the trade fair feeling reassured that the current upswing will hold steady. The exhibition attracted more than 115,000 visitors and 1,900 exhibitors, offering exhibition-goers vast opportunities to keep abreast of the latest dental technologies and the materials designed for use in conjunction with these technologies.

At this year's exhibition, the focus was placed on all-ceramics and on the lithium disilicate ceramic materials of the IPS e.max[®] range in particular. Our visitors particularly appreciated the fact that the widely advertised IPS e.max materials are now also available from all the milling centres that are partnered with Ivoclar Vivadent.

In view of the wide range of ceramic and alloy compositions, users are finding it increasingly challenging to select a suitable cementation material and this issue presented another important topic. Consequently, the launch of our Cementation Navigation System came at a very timely moment. This multimedia application includes a range of material selection criteria and suggests suitable solutions for individual cementation cases.

These are only two examples of the many newly designed and improved products that were in the spotlight at IDS. In this issue you will find out more about the topics and issues that are and will be of significance to dental practices and laboratories.

Yours sincerely

Josef Richter
Chief Sales Officer
Ivoclar Vivadent AG

Programat[®] press furnaces: Exciting technology

The Programat[®] EP 5000/G2 and EP 3000/G2 press and ceramic furnaces are the new all-rounders for the dental laboratory. The new furnaces are characterized by a series of additional and innovative technological features and functions. It goes without saying that users can still benefit from the tried-and-tested features of the predecessor models.

The combination furnaces Programat EP 5000 and EP 3000 combine the advantages of press and ceramic furnaces. Ivoclar Vivadent has launched the furnaces of the second generation, which offer new technologies, such as the Power Saving Technology, Thermo Shock Protection (TSP) and Cooling Shock Protection (CSP).

The Power Saving Technology enables the power consumption in the stand-by mode to be reduced by up to 40 percent. This positively affects the energy costs and helps protect the environment. The TSP function prevents a thermal shock in the ceramic if the furnace head is closed at excessive temperatures. Furthermore, the EP 5000 model has been equipped with the CSP technology, which reduces the residual stresses in the ceramic material by means of a special opening process.

Innovative features

The two new furnaces come with new special programs for the processing of IPS e.max[®] Press Impulse and IPS e.max[®] Press Multi ingots. In addition, the EP 5000 offers an optimized user interface and the EP 3000 a new keypad design. Both models include a large remaining time indicator which can be optionally activated. Thanks to this function, users always know when a program will end even from a distance.

Proven functions

The Programat EP 5000 and EP 3000 furnaces continue to offer their proven functions: The Crack Detection System identifies cracks which are forming in the investment ring at an early stage and aborts the program in due time. The QTK muffle technology ensures homogeneous heat distribution and thus optimum press and firing results. Due to the very precise temperature calibration (ATK2), the furnaces can be fully automatically calibrated at two temperature ranges.

The Programat EP 5000 and EP 3000 press and ceramic furnaces have been available since April 2011.



Successful models: EP 3000 (left) and EP 5000.

IPS e.max[®] CAD restorations:

Available from Nobel Biocare

The innovative lithium disilicate (LS₂) glass-ceramic IPS e.max[®] CAD is an esthetic and economically efficient option for fully anatomical crowns which is now available to NobelProcera customers.

IPS e.max CAD full crowns are offered by NobelProcera starting with CAD/CAM software version 4.0.9. In addition to an adequate translucency and lifelike appearance, combined with high strength, the IPS e.max CAD lithium disilicate (LS₂) glass-ceramic material features outstanding quality and robustness.

In addition, a minimal amount of work is required to process the material in the laboratory.

IPS e.max CAD LT full crowns are available from NobelProcera in 16 A–D and 4 Bleach BL shades.

Ivoclar Vivadent's extensive expertise in the field of dental materials coupled with Nobel Biocare's unique CAD/CAM experience results in precision-milled, esthetic and long-lasting restorations and provides for efficient processing methods.



The NobelProcera scanner



IPS e.max CAD crowns by NobelProcera:
Milled – crystallized – glazed (from left)

IPS e.max[®] CAD-on technique:

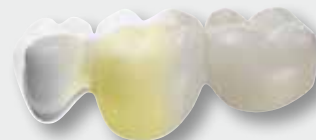
all ceramic
all you need

**Now available in all furnaces
of the Programat[®] series**

The CAD-on technique is used to fabricate high-strength and highly esthetic restorations consisting of IPS e.max[®] CAD (LS₂) and IPS e.max ZirCAD (ZrO₂) ceramics. This technique allows tooth- or implant-supported posterior bridge restorations with 3 or 4 units to be produced.

A homogeneous bond between the two components is achieved by means of a one-step fusion and crystallization firing, during which the LS₂ veneering structure obtains its final material properties. The parameters for this firing cycle are now also stored in the combination furnace Programat EP 3000 (as of software V6.0) and the Programat CS furnace (as of software V2.0), in addition to the Programat furnaces P300, P500, P700 and EP 5000.

Software updates are available free of charge on the Internet at www.ivoclarvivadent.com/download-center. Thus, IPS e.max CAD-on restorations can be fired in all Programat furnaces of the latest generation.



Highly esthetic high-strength IPS e.max CAD-on bridge restoration

COMPETENCE IN IMPLANT ESTHETICS



SR Adoro[®]:

A masterpiece of esthetics

SR Adoro[®] is a clinically proven light- and heat-curing microfilled veneering composite that is distinct for its convenient handling properties and vibrant esthetic qualities. SR Adoro offers impressive clinical advantages such as exceptional shade stability, wear behaviour and surface lustre. The material's high degree of translucency and natural opalescent effect result in vibrant "white" esthetics. In addition, natural-looking Gingiva materials allow users to achieve impeccable "pink" esthetics.

In addition to conventional alloy frameworks, SR Adoro is now also suited for application on zirconium oxide frameworks. The same application procedure and components are used for this new indication as for the metal frameworks. SR Adoro now offers users the choice between veneers on metal frameworks or veneers on zirconium oxide frameworks, providing increased room for flexibility in routine laboratory work.

Now also suitable
for applications on
zirconium oxide

Implant Prosthetics:

For discerning patients

Esthetics is playing an increasingly significant role in implant-borne removable prosthetics. Patients are no longer prepared to merely have their dental functions restored. Removable dental prostheses are expected to provide both lifelike esthetics and natural function.

The fabrication procedure is outlined in the case described here: After the implants have been inserted, an appropriate set of anterior teeth is selected together with the patient. For this purpose, the interalar width of the nose is determined with a FormSelector. This measurement gives an initial idea of what the size of the anterior teeth should be like. Fine tuning is then carried out on the basis of a living tooth mould chart. In the process, the clinician can gather a detailed picture of the patient-specific characteristics of the anterior teeth. Esthetically discerning patients in particular will like it if they are allowed to

partake in the tooth selection process and can express their preferences and ideas regarding the shape, size, shade and position of the teeth. In the present case, SR Phonares® teeth in mould S72 were selected. The teeth featured a relatively bright shade and were positioned in a slightly crowded formation to harmonize with the natural appearance of the patient. Along with the patient's nature and esthetic characteristics, the functional aspects must also be kept in mind. In this respect, the Biofunctional Prosthetic System, BPS®, from Ivoclar Vivadent is particularly recommended for the set-up method.



Esthetic outcome (picture courtesy of Dr Jiro Abe; Kyoko Kokubo, DT, Japan)

COMPETENCE IN COMPOSITES



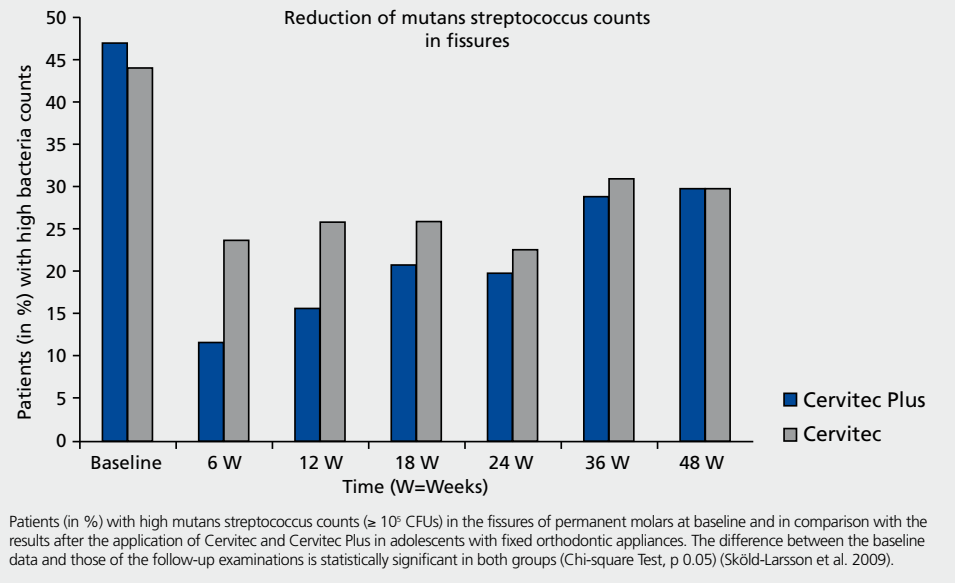
Cervitec® Plus:

Latest study results confirm its clinical benefits

Cervitec Plus is more effective than its predecessor Cervitec. This finding comes from a joint clinical study* between the Central County Hospital of Halmstad, Sweden, and the University of Copenhagen, Denmark.

Cervitec Plus varnish containing chlorhexidine and thymol now features a new formulation and improved adhesive properties. Like its predecessor Cervitec, Cervitec Plus significantly reduces the number of bacteria in the mouth, with a difference: Cervitec Plus fights bacteria even more effectively.

The clinical study was carried out over an average period of 48 weeks. The aim of the investigation was to establish the influence of the varnish on cariogenic mutans streptococci in the fissures of permanent molars (Sköld-Larsson et al. 2009).



*Study: Sköld-Larsson K, Sollenius O, Petersson LG, Twetman S: Effect of topical applications of novel chlorhexidine-thymol varnish formula on mutans streptococci and caries development in occlusal fissures of permanent molars (J Clin Dent 2009;20:223-226)

Application of the Cervitec Plus protective varnish (picture courtesy of Prof. Dr Svante Twetman)

Fluor Protector VivAmpoule:

Customers are highly satisfied

The VivAmpoule is a new delivery form for the clinically proven fluoride varnish Fluor Protector. According to a survey in Germany, this delivery form has gained a high level of acceptance.



Three quarters of the users are very satisfied with the way in which the new VivAmpoule handles. Ninety-nine percent of the people questioned said that the new delivery form is very comfortable to manipulate. The high level of satisfaction is confirmed by the following results.

Eighty-five percent of the respondents rated VivAmpoule above average with regard to its stability and the ease with which the vessel opens.

The application of Fluor Protector allows teeth to be professionally protected against sensitivity, caries and dental erosion. The clear, colourless varnish is unobtrusive and does not affect the appearance of the teeth.

Source: survey conducted by Ivoclar Vivadent in 2010.



The product opens easily and safely:
1. VivAmpoule is held upright and the top is snapped off.
2. The product is ready for application.



High level of esthetics in anterior teeth: application of Fluor Protector varnish.

bluephase®:

The curing light most frequently mentioned in studies presented at the IADR Meeting 2010

At the annual meetings of the IADR (International Association for Dental Research), thousands of research papers are presented. Quite remarkably, bluephase® is by far the most frequently used polymerization light. Thus, bluephase is not only rated as the top light-curing unit by the independent and renowned American testing institutes Dental Advisor and CR Clinicians Report¹⁾, but it also serves as the product standard in clinical and scientific studies.²⁾

The concept of IADR consists in offering scientists and research groups from around the globe a venue where they can exchange their knowledge and keep themselves up to date on the latest insights in dental research. The IADR has around 12,500 members worldwide.



Sources:

- ¹⁾ • The Dental Advisor: Top Light-Curing Unit: 2011, 2010 and 2009
<http://www.dentaladvisor.com/clinical-evaluations/product-awards/2011-product-awards.shtml>
- Independent non-profit organization for dental education and product testing (Clinicians Report, Oct 2010)
Please contact Ivoclar Vivadent for the complete report or go to www.cliniciansreport.org.
- ²⁾ IADR - International Association for Dental Research / General Session, Barcelona, July 14-17, 2010



Tetric EvoCeram®:

A masterful presentation



Tetric EvoCeram® has a new look and features new shades. Its inherent strengths, however, have been maintained.

Ivoclar Vivadent has introduced Tetric EvoCeram in new, modern and ergonomic syringes and Cavifils. The light-curing universal nanohybrid composite is now even easier and more convenient to use.

Long working time, fast polymerization

Tetric EvoCeram demonstrates a balanced chemical composition and outstanding properties. The most significant feature is called Polymerization on Demand. Due to a patented additive in the photoinitiator system, dental professionals can manipulate Tetric EvoCeram as long as they need to under operatory light. Nevertheless, the material still polymerizes quickly under blue light. Therefore, the significant attributes of Tetric EvoCeram are due to its formulation, which provides the basis for many more strong performances.

For natural-looking restorations

New shades have been added to the Tetric EvoCeram range: A2 Dentin and B1 and D2. The composite is now available in 22 shades. The conventional shade code according to the A-D shades has been transferred to the new syringes and Cavifils. Due to the incremental translucency between the dentin and enamel shades, very natural-looking restorations can be produced in anterior and posterior teeth.

Additional possibilities are offered by the highly translucent Incisal shades and the Bleach shades. The light refraction indices of the fillers, monomers and nano-colour pigments are optimally coordinated. As a result, the shades adapt quite naturally to the surrounding dental tissue.

Clinically proven

To date, 85 million restorations have been placed with Tetric EvoCeram throughout the world and the product has been the subject

of many different studies. These results all attest to the excellent performance of Tetric EvoCeram. An end to the product's success is not in sight.



Clinical case over a period of 6 years



Before



Directly after restoration with Tetric EvoCeram



After six years

(Dr Arnd Peschke)

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Layout: Johannes Biedermann

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Contact us

🇬🇧 UK: +44-116-284 7887
• other: +423-235 36 36

www.ivoclarvivadent.com