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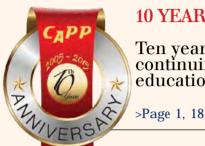
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10 YEARS ANNIVERSARY

Ten years of successful continuing dental education: 2005 – 2015

6TH **DENTAL FACIAL**

14-15 November 2014 Jumeirah Beach Hotel DUBAI, UAE





Utilizing the Tempcap.. & Concepts, goals and techniques...



>Page 6-7, 10, 11, 37-38

Celebrate the 10th Anniversary at the Jumeirah Beach Hotel, DUBAI

Ten years of successful continuing dental education: 2005 – 2015

By Centre For Advanced Professional Practices

UBAI, UAE: May 2015 will mark a significant milestone in the history of the Centre for Advanced Professional Practices (CAPP) in Dubai. CAPP will be celebrating its tenth anniversary of successful continuing dental education not only in the United Arab Emirates but also across the Middle East. Through the hard work of its colleagues, sponsors, partners and supporters, CAPP has been able to establish firstclass standards for continuing dental education programmes over the past decade. Participants and followers of CAPP programmes have also helped develop professional training according to the needs of the region with their open feedback.

CAPP is an ADA CERP-recognised provider that specialises in continuing medical and dental education programmes (conferences, hands-on courses,

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Health authorities offer Ebola guidance for dentists

By Dental Tribune International

TLANTA & CHICAGO, USA: In close collaboration with the Centers for Disease Control and Prevention (CDC) and the Organization for Safety, Asepsis and Prevention, the American Dental Association (ADA) has released infor-

mation for dental professionals on Ebola virus disease, which is epidemic in West Africa. Among other recommendations, it provides advice on the treatment of

patients recently returned from the region.

CDC and its partners are currently working to help prevent Ebola and other infectious diseases from being introduced into and spread in the U.S. As of

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Procter and Gamble Oral Care renews endorsement partnership with the Lebanese **Dental Association in Beirut**

By Crest & Oral-B

EIRUT, Lebanon: During the 24th Beirut International Dental Meeting (BIDM 2014), held under the High Patronage of His Excellency the President of the Lebanese Parliament, Mr. Nabih Berry, a ceremony was organized to announce the renewal of the official partnership between P&G Oral Care and the Lebanese Dental Association, LDA at Biel **Convention Center.**

"Oral hygiene is a topic that quite often is overlooked"

Dr. Ashhad Kazi, Professional & Academic Relations Consultant - AP representing Crest and Oral B commented on the occasion: "The vision of Procter and Gamble Oral Care is to improve oral health of more people in more parts of the world more completely. This collaboration with the Lebanese Dental As-



Prof. Maalouf, President of the Lebanese Dental Association with Dr. Ashhad Kazi, Professional & Academic Relations Manager - AP for Crest & Oral-B

that we are proud of and keen President of Lebanese Dental on sustaining."

sociation is one of the initiatives Professor Elie Azar Maalouf, Association (LDA), stressed on the advantages of such a part-



nership in benefiting the Oral Care segment in Lebanon. He added: "We are specifically thrilled about the unique benefits that this collaboration between the LDA and Crest and Oral B will provide to the retirement fund for dentists in Lebanon."

The ceremony took place in the presence of the president and members of the Saudi Dental Syndicate, whereby Dr. Kazi presented Professor Maalouf with the newest innovation from Kornberg, Germany, a Bluetooth enabled Power Brush: The Oral-B White Pro 7000 that has just been released in the UK.

Dr. Kazi added, "Oral hygiene is a topic that quite often is overlooked and not given its due importance in our daily lives, with newer oral care technologies now at our disposal, it can be a game changer in the fight for maintaining good oral health. Crest and Oral B have a long history of high quality research as such, they offer a comprehensive line-up of toothpastes, mouthwashes, toothbrushes and flosses which provide consumers with innovative, targeted solutions designed to meet all general and specific oral care Dr. Khaled Abouseada, K

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GROUP EDITOR Daniel Zimmermann newsroom@dental-tribune.com +49 341 48 474 107

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DENTAL TRIBUNE INTERNATIONAL Holbeinstr. 29, 04229 Leipzig, Germany Tel.: +49 341 48 474 302 Fax: +49 341 48 474 173 info@dental-tribune.com www.dental-tribune.com

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needs."

With this collaboration for the second term, both Crest and Oral B and the Lebanese Dental Association will not only be establishing more awareness about the right routine for good oral hygiene and its maintenance, but also providing unique benefits to the retirement funds of dentists in Lebanon. DT

Contact Information

For more information contact: Haneen Joudiveh PR Consultant Impact Porter Novelli h.joudiyeh@ipnbeirut.com.lb

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The Dental Company



"CEREC Desert Fest 2014" in Dubai, UAE



Dr. Ninette Banday during the Chairside Indirect Veneers, Inlays, and Onlays: A – to – Z Table Clinic Presentation



Dr. Todd Ehrlich presenting Summer of CEREC Table Clinic Presentation



Dr. Todd Ehrlich presenting his Summer of CEREC in Dubai



Dr. Daniel Vasquez demonstrates the speed of the new CEREC Software

By Sirona

BAdvanced Professional Practices (CAPP) organized the first ever "CEREC Desert Fest" connection between our knowhow and the experiences of CEREC users in these spectacular surroundings. Professional exchanges are important for the advancement of digital dentistry. We wanted to provide a stage for

"We can proudly say that the event was a great success" - Dr. Amro Adel, Area Manager GCC, & Pakistan, Country Manager Saudi Arabia, Sirona Dental GmbH

with exciting discussions about the newest insight in digital dentistry, real-time demonstrations and an entertaining social program. The event held in Dubai from September 12–13 was aimed at both potential CAD/ CAM users and experienced CEREC users.

Sirona presented the CEREC Desert Fest for the first time at The Palace Hotel Downtown Dubai, a beautiful hotel located in the city's Old Town. More than 200 dental professionals took the chance to share their aspirations for Digital Dentistry and their experience with Sirona's CAD/ CAM system with dental colleagues from all over the world. In addition to pioneer and future CEREC users, dentists and dental technicians from the UAE, professionals from Bahrain, Egypt, Greece, Iran, Iraq, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Sudan and The Netherlands attended the event.

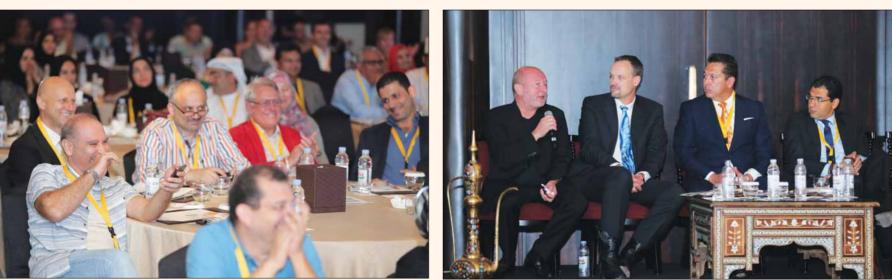
Volker Vellguth, Vice President Sales Russia, CIS, Middle East and Africa at Sirona: "With the CEREC Desert Fest we wanted to establish and strengthen the creative discussions for dental professionals and the more than 200 guests took advantage of this opportunity. We can proudly say that the event was a great success for us and CEREC!"

The guests clearly enjoyed this new and signature networking event. Filled with entertainment, panel shows, real-time CERECdemonstrations, desert safaris and table clinic presentations in a beautiful Arabian flavored ambiance in the heart of Dubai.

Dr. Daniel Vasquez, San Diego "What a wonderful experience, we had a great time. When I started my presentation I asked how can I bring Dubai to San Diego or San Diego to Dubai; it is simple, I made many new friends and I hope I can stay in the heart of many of the attendees and of course in all of you."

Contact Information

Please visit the event's website: http://cerecfest.cappmea.com.



The audience was well entertained at the CEREC Desert Fest in Dubai

"The guests clearly enjoyed this new signature networking event."

Open Discussion between Dr. Bernd Reiss, Germany, Dr. Todd Ehrlich, USA, Dr. Daniel Vasquez, USA and Prof. Wael Att, Germany

"Professional exchanges are important for the advancement of digital dentistry."



Dr. Josef Kunkela, CZ presenting CEREC meets SMILE DESIGN

The Panelists listening to questions from the audience

Exploring CEREC Omnicam with Dr. Daniel Vasquez -Table Clinic Presentation

NEWS 5

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Oct. 17, the ADA advises dental professionals of the following:

A person infected with Ebola is not considered contagious until symptoms appear. Owing to the virulent nature of the disease, it is highly unlikely that someone with Ebola symptoms will seek dental care when he or she is severely ill. However, according to CDC and the ADA Division of Science, dental professionals are advised to take a medical history, including a travel history, from their patients with symptoms in whom a viral infection is suspected.

As recommended by the ADA Division of Science, any person within 21 days of returning from the West African countries Liberia, Sierra Leone and Guinea may be at risk of having contacted persons infected with Ebola and may not exhibit symptoms. If this is the case, dental professionals are advised to delay routine dental care of the patient until 21 days have elapsed from their trip. Palliative care for serious oral health conditions, dental infections and dental pain can be provided if necessary after consulting with the patient's physician and conforming to standard precautions and physical barriers.

In general, providers of dental health care services should continue to follow standard infection control procedures in the clinical setting as described in CDC's 2003 Guidelines for Infection Control in Dental Health-Care Settings, the organization stated.

Signs and symptoms of Ebola include fever greater than 58.6 C or 101.5 F and severe headache, muscle pain, vomiting, diarrhea, stomach pain, or unexplained bleeding or bruising.

CDC emphasized, "The virus is spread through direct contact with blood and body fluids of an infected person, or with objects, like needles, that have been contaminated with the virus.

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INTERNAL

Utilizing the Tempcap abutment with CAD/CAM Combination of Tempcap, in-office CAD/CAM and e.max allows for final restoration



mCME articles in Dental Tribune have been approved by: HAAD as having educational content for 2 CME Credit Hours DHA awarded this program for 2 CPD Credit Points

By Dr. Les Kalman, USA

he E4D in-office CAD/ CAM unit (Editorial note: Planmeca E4D Technologies) has been employed in an investigative laboratory study to design and mill an unconventional IPS e.max restoration that would be coupled with the Tempcap as a final implant-supported crown. The combination of the Tempcap, in-office CAD/ CAM procedures and IPS e.max allows the clinician to create an immediate final restorative product with ideal characteristics.

The procedure is a simple, efficient and effective solution for the restoration of implants.

Introduction

The temporization of a dental implant following surgery, particularly in the anterior region, is a necessary procedure. The temporization allows for surgical healing, preservation of the gingival architecture and, most important, replacement of a tooth in the edentulous space for patient acceptance. Several techniques for the temporization exist, but the process has proved trating. The Tempcap abutment and the process for temporization were created to provide a simple yet effective approach.¹ With the advent of CAD/CAM technology and e.max, the potential of the Tempcap to act as a final abutment seemed likely and suitable for investigation.

to be time-consuming and frus-

Background

Following the surgical placement of a dental implant, several requirements must be met to maximize healing and osseointegration of the implant body to bone:

– Minimal forces, if any, should be exerted on the implant body, permitting proper healing and preventing a non-osseous union.²

– The gingival architecture must be managed meticulously to prevent contamination, minimizing the risk of peri-implantitis and possible failure.³

– There must be sufficient time for the process of osseointegration.⁴

– Temporization and immediate restorations should not violate these factors. 5

The Tempcap is a healing cap and restorative platform combined (Fig. 1). It has an all-metal construction, and it contains two to three retentive pin projections (Fig. 2). Tempcap is available in different widths and heights to accommodate different implant sizes (Fig. 5) and is compatible with existing instrumentation (Fig. 4).

The function of the Tempcap is: – to allow for optimal gingival healing;

- prevent contamination of the surgical field;
- minimize forces and microvibrations on the implant;

– facilitate the simple yet successful restoration of the implant (Fig. 5).

CAD/CAM stands for computeraided design and computer-aided manufacturing. CAD enables the individual to digitally capture an image of a prepared tooth or structure and then design an indirect (out of the mouth) restoration by using software.⁶

After the ideal restoration has been produced, the design is then fabricated out of a material by a milling machine. In-office E4D units (Editorial note: Planmeca E4D Technologies) are currently available to allow for immediate chairside fabrication without the use of a commercial laboratory.

IPS e.max (Ivoclar Vivadent) is a relatively new metal-free dental material used in indirect restorations. It is an aesthetic material composed of lithium disilicate and has ideal physical and aesthetic properties, allowing it to be the first choice for CAD/ CAM restorations. IPS e.max has strength second only to gold and has the ability of detailed CAM production.⁷

Methodology

The Tempcap was selected and placed on an Ankylos (DENTSP-LY Implants) implant body (master cast with soft tissue) (Fig. 6). Digitization was achieved by using an E4D camera (Editorial note: Planmeca E4D Technologies) (Fig. 7), in which several images were captured to compile an accurate image (Figs. 8 & 9). CAD design was used with E4D software (Editorial note: Planmeca E4D Technologies) to determine and delineate margins (Fig. 10). Tooth design was initiated incorporating several parameters:

e American Dental Association to assist dental professionals viders of continuing dental education. ADA CERP does not dual courses or instructors, nor does it imply acceptance of

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for 2 CE credits.

 ideal aesthetics and emergence profile (Fig.11);

adequate proximal contacts;
 appropriate occlusal scheme;
 material thickness require-

ments;

internal surface morphology to adapt to Tempcap;

– design that can be milled via CAM technology.

Numerous design iterations were required to achieve the desired design requirements (Figs. 12–14). IPS e.max was selected for milling (Fig. 15) and was executed by an E4D CAM unit (Editorial note: Planmeca E4D Technologies) (Fig. 16). Milling limitations, such as bur contact and prosthesis fracture, required CAD design modifications. Reiterations in CAD/CAM design were carried out until a successful restoration was achieved (Fig. 17).

The unfired IPS e.max crown was tried for fit and aesthetics and then subsequently fired (Fig. 18), resulting in its colour change. The crown was further stained, glazed and fired (Fig.



Fig. 1. Tempcap abutment.





Fig. 2. Retentive pins.





Fig. 3. Tempcap with Straumann implant.





Fig. 4. Use of existing instruments.

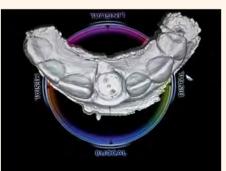


Fig. 5. Temporization form and function.

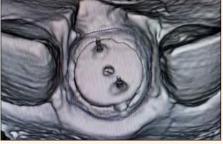


Fig. 9. Tempcap digitized.

Fig. 6. Tempcap on soft-tissue model with Ankylos implant (DENTSPLY Implants).

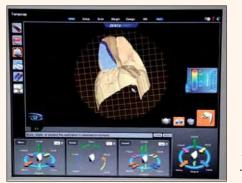


Fig. 10_Digitized delineation of Tempcap.

Fig. 7. Digitization with E4D camera (Editorial note: Planmeca E4D Technologies).

Fig. 8. Digitized images of arch.



Fig. 11. Development of emergence pro-file.

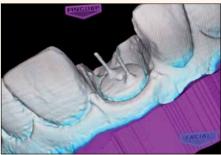


Fig. 12. Occlusal view of restoration.



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Fig. 13. Lingual view of restoration.



Fig. 17. Milled IPS e.max restoration.



Fig. 21. Internal aspect of restoration.



Fig. 25. Final implant-supported IPS e.max crown with Tempcap.

19), resulting in a highly aesthetic final restoration (Fig. 20). The restoration's internal aspect (Fig. 21) was assessed for path of insertion, retention and fit.



Fig. 14. Facial view of restoration.



Fig. 18. Ivoclar furnace.



Fig. 22. Final CAD/CAM IPS e.max restoration.

The IPS e.max prosthetic crown was further assessed for fit, taking into account (Fig. 22).

complex Tempcap to assess the limit of the CAD/CAM unit's capability. A stand-alone Ankylos (DENTSPLY Implants) implant body was coupled with a Temp-

cap abutment with three retentive pin projections (Fig. 23). The abutment was digitized with the same methodology as described. An IPS e.max crown was executed and assessed (Figs. 24 & 25).

Discussion

This study has determined that the Tempcap can be successfully and accurately digitized and milled by in-office CAD/ CAM technology (Editorial note: Planmeca E4D Technologies) to create an ideal prosthetic crown from IPS e.max within a laboratory setting. CAD software can be manipulated to generate forms beyond the scope of the unit.

Complex units, such as the three-pronged Tempcap may be successfully designed and milled. IPS e.max has the capability to be milled in complex patterns, while still maintaining its structural integrity.

However, further laboratory studies, quantitatively assessing stresses and strengths and utilizing a larger sample size, are required to validate the concept. Subsequent clinical investigations are required to assess the clinical significance and viability of the Tempcap with CAD/CAM technology. The potential to fabricate the Tempcap entirely from e.max should also be considered.



Fig. 15. IPS e.max CAD/CAD block (Ivoclar Vivadent).



Fig. 19. Staining and glazing.



Fig. 23. Ankylos implant with complex Tempcap and milled IPS e.max crown.

design and create a CAD/CAM IPS e.max restoration using E4D technology. The utilization of the Tempcap as a successful provisional abutment has been documented1; the utility of the abutment as a simple, efficient and cost-effective component seems promising. These advances simplify the procedure and reduce the cost, ultimately allowing a greater accessibility for both patients and clinicians.

Editorial disclaimer: Dr Les Kalman is the co-owner of Research Driven and the inventor of the Tempcap.

This article was originally published in implants CE magazine 1/2013.

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3. Mijiritsky, E. Plastic temporary



Fig. 16. E4D CAM unit (Editorial note: Planmeca E4D Technologies).



Fig. 20. Facial aspect of final restoration.



Fig. 24. Internal aspect of IPS e.max crown for three-pronged Tempcap.

92-96.

7. Ivoclar Vivadent: IPS e.max lithium disilicate: The Future of All-Ceramic Dentistry. 2009; 1-15. DT

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About the Author

Dr Les Kalman, DDS, graduated from the University of Western Ontario with a doctor of dental surgery degree in 1999. He then completed a GPR at the London Health Sciences Centre. He has been involved in general dentistry within private practice since 2000. He has served as the chief of dentistry at the Strathrov-Middlesex General hospital. In 2011, he transitioned to fulltime academics as an assistant professor at the Schulich School of Medicine and Dentistry. Kalman's research focuses on medical devices, including the Virtual Facebow and the Tempcap. Kalman is also the Director of the Dental Outreach Community Services (DOCS) program, which provides free dentistry within the community.

Dr Kalman has authored articles ranging from pediatric impression to immediate implant surgery in both Canadian and American journals. He has been a product evaluator for several companies, including GC America and Clinician's Choice. Dr Kalman is the co-owner of Research Driven, a company that deals with intellectual property development. He is a member of the American Society for Forensic Odontology, International Team for Implantology, Academy of Osseointegration, American Academy of Implant Dentistry and the International Congress of Oral Implantology. He has been recognized as an Academic Associate Fellow (AAID) and Diplomate (ICOI). In his spare time, Kalman enjoys photography as an accredited MotoGP photojournalist.

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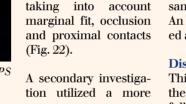
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Conclusions

In-office CAD/CAM technology can be utilized and manipulated to generate digitized forms beyond the scope of the morphogenesis. CAM manufacturing has limiting factors that must be realized when producing modified prostheses. CAD modifications must account for these discrepancies. IPS e.max has the ability to be milled in extremely detailed designs.

The Tempcap can be optically scanned and digitized in order to

abutments with provisional restorations in immediate loading procedures: A clinical report. Implant Dentistry. 2006. Vol. 15, No. 3: 236–238.

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The aesthetic challenge

By Dr. Mohamed El Sayed Hassanien, Egypt

atient's satisfaction has always been the main goal achievement of dental professionals particularly with esthetics. As the popularity of esthetic dentistry increases, a growing number of patients are seeking treatment for improvement of unaesthetic anterior dentition.

Accordingly several treatment options have been proposed to restore the pleasant esthetic appearance that the patients are always seeking.

Based on the conservative approach and minimal invasive dentistry protocols, ceramic laminate veneers have been introduced to satisfy the patients growing esthetic demands.

Many construction techniques have been utilized in the dental market whether directly or in directly to fabricate ceramic laminate veneers.

CAD/CAM being state of the art dental technology offers lots of merits for both the clinician





5 Figure

and the patient. Being a chair side same day procedure, utilizing intra oral scanning avoiding conventional physical impressions, and long-term provisional restorations thus producing an esthetic all-ceramic restoration with highest degrees of accuracy and precision.

Case presentation

A twelve year girl, medically healthy, denies taking any medi-



Figure 2

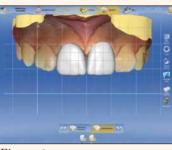


Figure 6





Figure 10

Figure 3

option to solve her complaint.

Tooth preparation

Tooth preparations were made using the depth-guided diamond wheel no. 018 to indicate the facial reduction amount of 0.4 mm for both teeth. The labial diamond bur no. 016 was used to complete the preparation on the labial surface and precisely reproduce the cervical finish line located just below the free gingival margin Fig. 3.

Incisal preparations were made with type two-veneer preparation design ending with a butt joint on the Incisal edge and not involving the palatal wrap around.

Finally finishing bur no. 014 was used to finish and smooth all the preparation surfaces Fig. 4.

All teeth preparations were made with loupes of magnification 2.5 X for better precision.

CAD/CAM fabrication steps

In lab SW 4.2.3 was used to scan, design and mill these two veneers.

The case was administrated as two veneers on tooth number 8 and 9; with the bio-generic individual design technique, materials were selected from Ivoclar Vivadent Empress Cad Fig.5.

Intra oral scanning



Figure 4



Figure 8



Figure 11

that the two veneers showed similar length to width relations Fig.6.

With the two veneers linked, restoration virtual translucency tool was used to check the amount of ceramic extension in relation to the underlying tooth preparation Fig.7.

SW 4.2 showed a new colored model tool, which enables the operator to see both veneers with the same color match for more valid size comparison Fig.8.

Shade matching

Visual shade matching was used for this case. Where the adjacent sound teeth showed A1 shade. Empress Cad blocks being a Lucite reinforced ceramic material was chosen for this case with a low translucency in order to mimic the adjacent shade of the teeth. Try in stage was done for the patient before glazing to check for proper seating and accuracy of the margins.

Glazing and characterization

Both veneers were seated properly with the object to fix putty material for better handling





Figure 9 cations visited my clinic com-

plaining of fractured upper two central incisors Fig. 1 & 2. After clinical and radiographic examination, which revealed complete root formation, two ceramic veneers for both central incisors were proposed as a treatment

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Sirona Omnicam was used to scan the upper, lower and buccal catalogues to formulate the 3D virtual colored model. Margins were determined for each tooth separately and insertion axis were determined depending on their corresponding path of insertion.

Virtual design

The virtual design was proposed with the SW, both veneers were virtually linked as a group so they were both virtually active. The bio generic variation tool was used to give the best morphological proposal to match with the adjacent teeth. The Grid tool was used to show the veneers proportions to ensure

ing glaze and stain process.

Empress Cad paste glaze was the material of choice for glazing the two veneers. In order to match the adjacent teeth, Empress Cad white stain was used on the middle and Incisal areas in a scattered pattern with a thin brush to give the natural white stain effect. Single cycle was used for staining and glazing together Fig.9

Cementation procedures

• Ceramic veneer surface treatment:

HF4 % Empress etching gel was

> Page 30

KaVo MASTERsurg LUX Wireless: Redefining the best

time displaying of the torque

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KaVo MASTERsurg makes it

and saving it concurrently.

MASTERsurgMASTERsurgMASTERsurg

By KaVo

7ith the successful launch of the EXPERTsurg LUX surgical unit and the SURGmatic instruments KaVo recently celebrated its comeback as a main player in the dental surgery field. As one of the world market leaders the dental company now presents another highlight: The MAS-TERsurg LUX wireless surgical unit. Thereby KaVo confirms its market position as a leading and innovative international dental player.

The new KaVo MASTERsurg now completes the attractive KaVo surgical portfolio and redefines surgical standards. Therewith all dentists and den-

Nobel Biocare to join Danaher dental business

By Dental Tribune International

URICH, Switzerland/ CHARLOTTE, N.C., USA: Today, Danaher, a US health care conglomerate of brands from various industries. and Swiss dental manufacturer Nobel Biocare announced that the two companies have entered into a definitive transaction agreement. In order to further expand its global dental business, Danaher has offered to buy Nobel Biocare, which is the second-largest supplier of dental implants worldwide, for CHF2 billion (US\$2.1 billion).

tal surgeons, no matter what real: a customizable surgical their different individual needs unit that adapts to dentists' and are, will find the perfect soludental surgeons' individual retion for their surgical work. The quirements. E.g. multiple programs, each with up to 10 treat-KaVo MASTERsurg surgical unit convinces through outstanding ment steps, maximum speed, comfort. It is offering a wireless maximum torque and even foot control, allowing the user more parameters can individua great freedom of movement. ally be defined and saved. The data documentation func-

> The new INTRA LUX S600 LED, one of the lightest and smallest surgical motors in the world, enables to work with high power and precision.

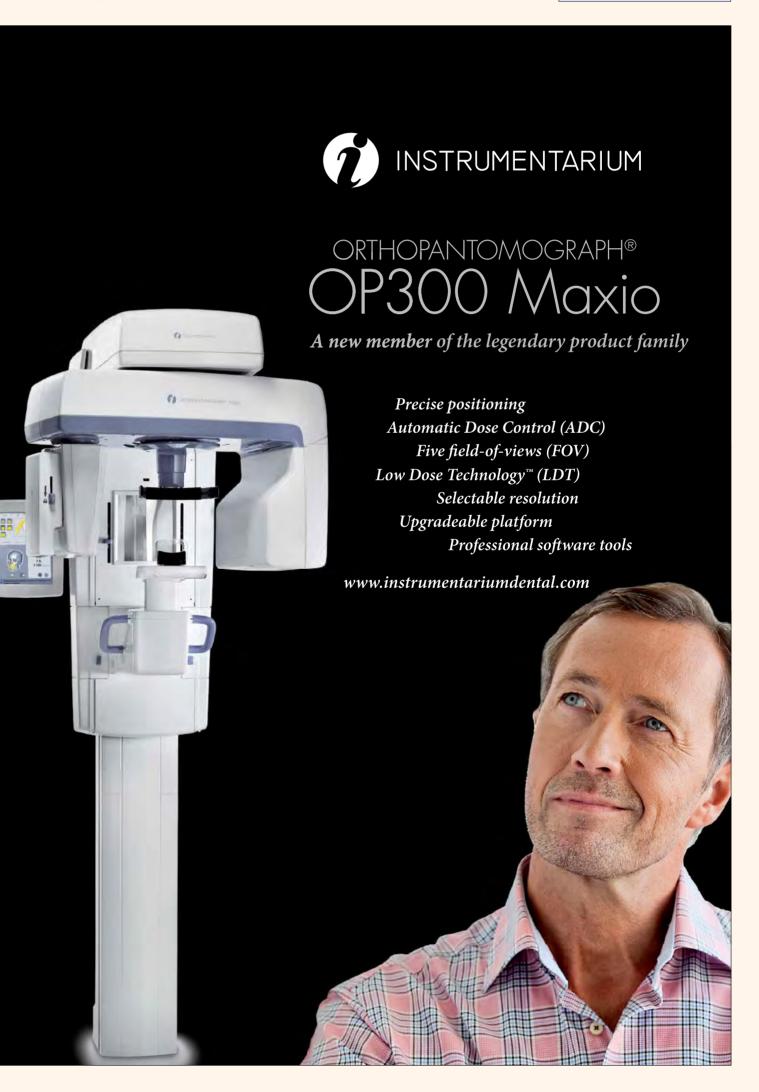
When it comes to performance and comfort, KaVo continues to set the benchmark with the EX-PERTsurg and the MASTERsurg controllers, the SURGmatic instruments (now available with hexagon clamping system with optimized head gearing) and the INTRA LUX S600 LED motor. All these components combine to a system for dental surgery that is not only easy to use but that provides save and highly precise tools for dentists and dental surgeons to face their daily challenges.



Scan & Discover

Contamct Information

KaVo Dental GmbH Alexia Valera 9th Floor Rotana Arjaan Tower Dubai Media City, UAE Tel. +971 4 4332186 Mob. +971 56 1757141 E-Mail alexia.valera@kavo.com www.kavo.com/MEA



As reported by Dental Tribune ONLINE earlier this year, Nobel Biocare confirmed that it had been approached at the end of July by third parties with a potential interest in acquiring the business. Now, the company's board of directors has unanimously decided to recommend that Nobel Biocare's shareholders accept the offer, which in-

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