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EDITOR'S MESSAGE

We are proud to present to you the inaugural *Dental Tribune ASEAN Edition!*

The world's dental newspaper is now in Malaysia, sharing with you the latest news on dentistry which covers various topics from region to world news, event updates, innovations, research, and clinical section.

Dental Tribune International (DTI), based in Leipzig, Germany, has been in the dental publishing business since 2003 and has grown substantially over the last ten years. Today, the DTI publishing group is composed of the world's leading dental trade publishers and this partnership with FBI Publications (M) Sdn Bhd is expected to flourish!

Our international team of journalists and writers will bring you the latest news in the industry to deliver you worthwhile and compelling articles and interviews to ensure you are always up to date.

Making its debut in Malaysia, our news will provide you exclusive insights and content into the dentistry world.



Susan Tricia
Editor

DT ASEAN will also be circulated in dental exhibitions, seminars and even webinars in Malaysia providing additional mileage for advertisers of the magazine and reaching out to new subscribers.

So go ahead and indulge in this edition and keep the feedback coming in to ensure our writers are providing you with a quality read always!

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FBI Publications (M) Sdn Bhd



9-3, Jalan PJU 5/6, Dataran Sunway, 47810, Petaling Jaya, Selangor

Tel: +603-6151 9178

Email: my@fireworksbi.com

International Headquarters



Publisher and Chief Executive Officer

Torsten R. Oemus

Chief Content Officer

Claudia Duschek

Dental Tribune International

GmbH Holbeinstr. 29, 04229 Leipzig, Germany

Tel.: +49 341 4847 4302 | **Fax:** +49 341 4847 4173

General requests

info@dental-tribune.com

Sales requests

ASEAN region:

vanny@fireworksbi.com

asean.dental-tribune.com

Europe region:

mediasales@dental-tribune.com

www.dental-tribune.com

Publisher

FBI Publications (M) Sdn. Bhd.

Marketing Communication

Nur Izyan binti Dzulkifli

izyandzul@fireworksbi.com

Publication Manager

Vanny Lim

vanny@fireworksbi.com

Assistant Editor

Atthira Zawana

atthirah@fireworksbi.com

Creative Designer

Muhammad Fadzil

design@fireworksbi.com

Board of Directors

Kenny Yong

Susan Tricia

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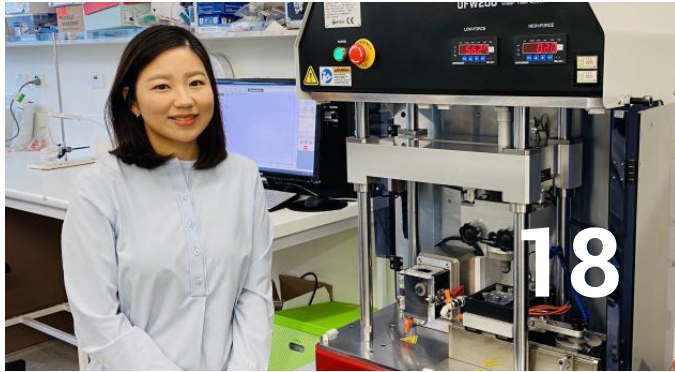
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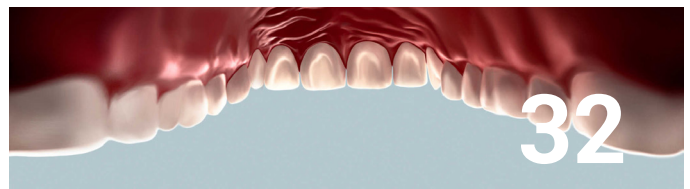
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YEARS OF LEADING THE WAY

The use of new technologies and digital implant solutions in a one-stage surgical procedure

By Dr Michał Nawrocki, Poland

The aim of this article is to present a case of single-tooth prosthetic restoration in the aesthetic zone step by step. The patient was referred to our clinic with a fractured root of tooth #11 (Fig. 1). The cone beam computed tomography (CBCT) analysis confirmed the fracture and revealed external resorption of the root from the vestibular side (Fig. 2). The tooth had to be extracted, and it was decided to follow immediate implant placement with a temporary aesthetic implant restoration. The immediate implant placement was planned with short-term non-occlusal loading.

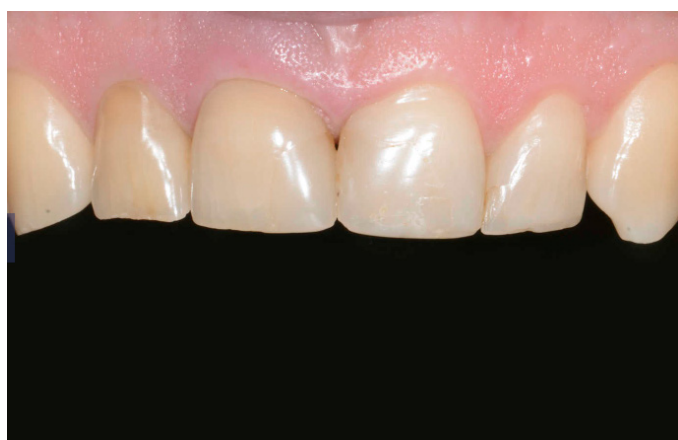


Fig. 1: Situation before treatment, which led to the decision to extract tooth #11



Fig. 2: CBCT scan: the root of the tooth was visibly fractured, and there was clear external resorption of the root from the vestibular side.

With the use of the CEREC Omnicam scanner (Dentsply Sirona), scans were taken of both the maxillary and the mandibular full arches along with a buccal scan (Fig. 3). The scans, together with the DICOM files, were uploaded to the Simplant software (Dentsply Sirona; Figs. 4 & 5).

The optimal position was planned for an Ankylos C/X B 14 implant (Dentsply Sirona) in line with the 3A–2B rule.¹ Using the Simplant software, a Simplant Guide, along with a patient-specific Atlantis CustomBase Solution (with a titanium nitride abutment surface; Dentsply Sirona) and digital files, were ordered using Atlantis Core File (Dentsply Sirona).



Fig. 3: Buccal scan: information on the positioning of the maxilla relative to the mandible. This is absolutely necessary for designing a crown.

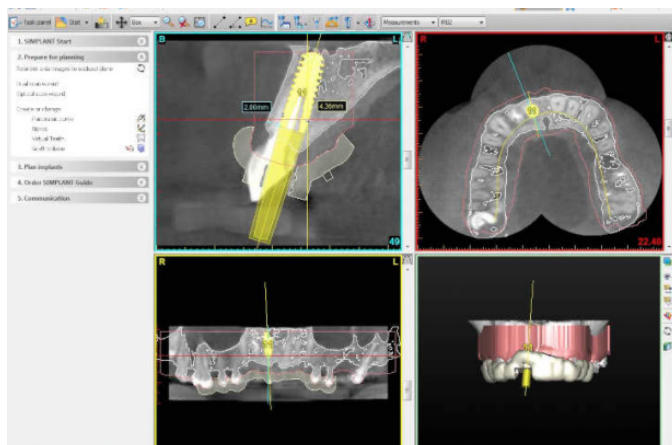


Fig. 4: Designing the guide in the Simplant software based on the planned implant position.

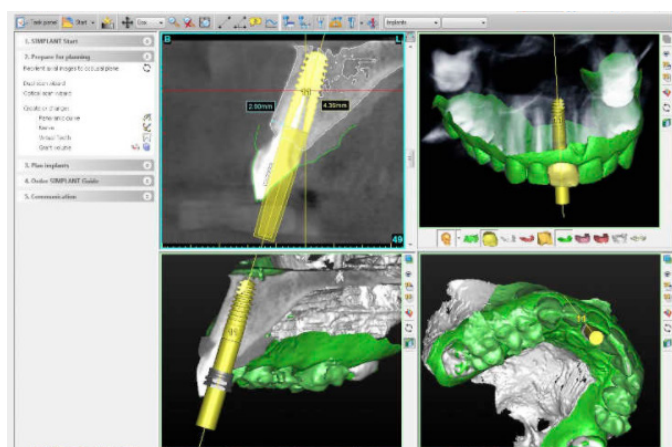


Fig. 5: Overlaying the CBCT and CEREC intra-oral scans, as well as the planned implant position, in the Simplant software.

The digital files were used to design and manufacture a screw-retained Atlantis crown for implant #11 in the CEREC CAD/CAM system (Dentsply Sirona). All the components, the Simplant Guide, the Atlantis abutment and the temporary crown, using CEREC, were manufactured and delivered prior to the surgical procedure (Figs. 6–8).

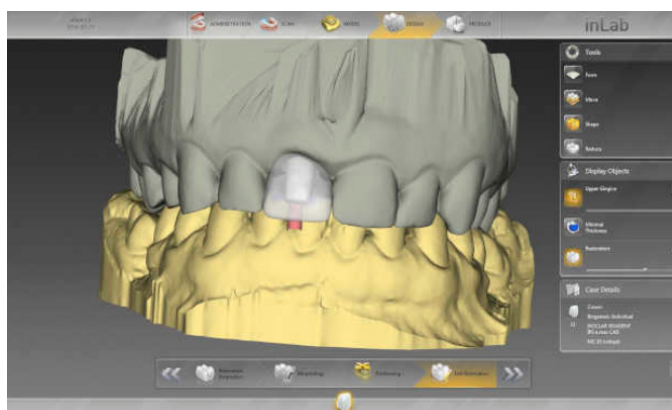


Fig. 6: Planning the shape and size of the future CAD/CAM full ceramic crown in cut-back technique in the inLab software (Dentsply Sirona) based on the Atlantis Core Fire received.

After precise planning, the tooth was extracted. At the resorption and fracture area of tooth #11, granulation tissue was clearly visible (Fig. 9). The granulation tissue was removed with an Er:YAG laser (H14 handpiece, Fotona; Fig. 10). The extraction was atraumatic and the socket clean and ready for implant placement (Fig. 11).



Fig. 7: Full ceramic crown milled in the CEREC CAD/CAM system before sintering. As can be seen in the images, the Atlantis Abutment and the crown would fit perfectly together.



Fig. 8: The completed screw-retained IPS e.max crown ready to be cemented extra-orally with the Atlantis abutment (titanium nitride abutment surface).

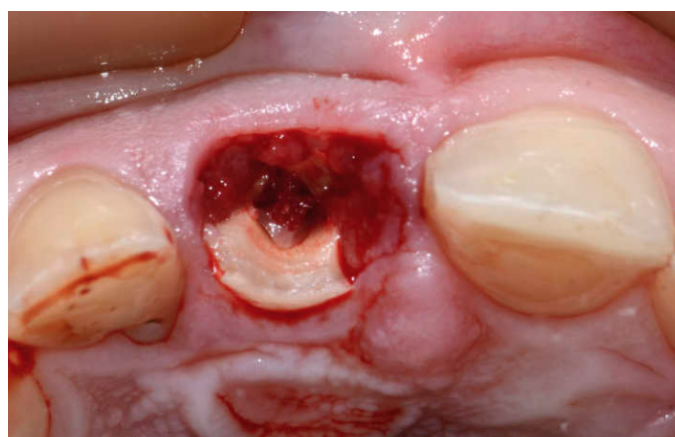


Fig. 9: Visible granulation tissues at the resorption and fracture area of tooth #11.