

ENDO TRIBUNE

How to give a second life to third molars: A case series with follow-up

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LAB TRIBUNE

The many characteristics of a long-term hybrid abutment crown

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ORTHO TRIBUNE

Interview: "It is not magic – it is not going to make the diagnosis for you ..."

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Taking care of our teeth is a fundamental part of good health

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HYGIENE TRIBUNE

Roughness and loss of substance of tooth surfaces after biofilm removal

►E1-4

SEHA AHS educates 30 upcoming national dental professionals at its new medical facility in Abu Dhabi



SEHA AHS Academic Affairs educated 30 of its upcoming young dental professionals in Abu Dhabi (Photograph: Dental Tribune MEA)

AD

by 3D SYSTEMS

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By Dental Tribune MEA

ABU DHABI, UAE: SEHA AHS Academic Affairs educated 30 of its upcoming young dental professionals on various multidisciplinary topics in dentistry. The three days course was organized in close cooperation with Centre for Advanced Professional Practices and Tipton Dental Academy on the latest tips & techniques on Posts & Core, Restoration of Post Endo Treated Teeth and Veneer Cementation. The programme took place at the new flagship Sheikh Shakhbout Medical City which is expected to be the new hub for innovation and artificial intelligence.

techniques were presented by the faculty lead Professor Paul Tipton, President of the British Academy of Restorative Dentistry (BARD) and his faculty support staff with a programme of three full days lectures and hands-on trainings tailor made to the needs of the SEHA dental professionals.

First day featured "Posts & Core – Modern Techniques in dentistry" consisting of a seminar covering posts and the afternoon session a hands-on practical covering shenker, duralay and fibre post preps. Following a steep learn-

The latest scientific content, tips, tricks and

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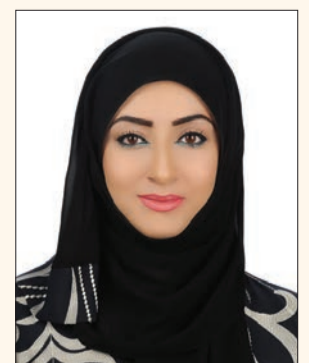
SEHA delegates during the hands-on training



Dr Ali Al Obaidli, Chief Academic Affairs Officer of SEHA



Dr Sumaya Khalifa Al Rubei, Health Centre Manager - Specialist



Dr Rola Al Hayek, Corporate Clinical Education Manager (Corporate Academic Affairs)

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ing curve, the second day continued with "How to Restore Root Filled Posterior Teeth" with the course outlining lectures, seminar and hands-on practical on adhesion and posterior composites. The three days ended on a high with the third day covering "Porcelain Veneer Preps and Cementation Techniques" where the delegates learned impression taking, veneer preparation and cementation.

The young dental professionals had access to the latest reading materials, webinars and preparation ahead of their courses which were practiced on state-of-the-art Phantom Heads.

Dr. Ali Al Obaidli, Chief Academic Affairs Officer of SEHA stated: "The UAE is witnessing a rapidly growing health and medical infrastructure that comes from the belief in its im-

portance and priority in building a human being, enjoying good health and physical integrity. SEHA is committed to providing a world class education to our dentists".

He added: "These workshops aim to up-skill our dentists' competencies, keep them up-to-date with cutting-edge techniques and advancements as well as becoming accustomed with new materials".

He praised the workshop which was structured around the latest dental technologies and their applications in modern dentistry.

Dr. Sumaya Khalifa Al Rubaei - Health Centre Manager - Specialist commented: "In line with SEHA's strategic objective to continuously attract and retain qualified healthcare professionals & particularly UAE Nationals, AHS Dental Services at Ambulatory Healthcare Services are committed to embracing the latest technologies and upgrading the knowledge and the skills of our den-

tists, dental technicians and hygienists, in order to continue providing high quality dental services to the community."

Dr. Rola Al Hayek – Corporate Clinical Education Manager (Corporate Academic Affairs) further indicated: "At SEHA, we are committed to the highest quality of care to patients which can only be delivered by well-trained and educated medical & clinical professionals. SEHA is keen to provide a variety of outstanding continuing education programs and training opportunities for our dentists. And so, these workshops are part of our efforts to bring the latest and best practices in prosthodontics.

Guests of honor included Dr. Sumaya Khalifa Al Rubei and Dr. Ali Al Obaidli. [DT](#)



SEHA delegates

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

DENTAL TRIBUNE ASIA PACIFIC LTD.
Room A, 20/F
Harvard Commercial Building
105-111 Thomson Road, Wanchai, HK
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THE AMERICA, LLC
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mollova@dental-tribune.me
Tel.: +971 50 42 43072

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deyanov@dental-tribune.me
Tel.: +971 55 11 28 581

**MANAGING DIRECTOR
EDITOR OF THE LAB TRIBUNE**
Petar MOLLOV
dtmea@dental-tribune.me
Tel.: +971 52 84 23 659

PRINTING HOUSE & DISTRIBUTION
Al Nisr Printing
P. O. Box 6519, Dubai, UAE
800 4585/04-4067170

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Introducing Primescan

Engineered for superior performance

By Dentsply Sirona

Innovation requires commitment to ambition: Primescan sets new standards in dental technology, making scanning more accurate, faster and easier than ever. It is engineered to enable all kind of treatments, from single tooth to full arch. Primescan produces highly accurate images and allows for fast scanning consolidating 50,000 images per second. The new patented "High Frequency Contrast Analysis" delivers perfect sharpness and an outstanding accuracy. With Primescan, intraoral scanning delivers excellent results like never before.

Accuracy

The new Primescan gives not just one new point of view but one million. The innovative Smart Pixel Sensor processes more than 1,000,000 3D points per second, producing photorealistic and highly accurate data. In fact, Primescan is the most accurate intraoral scanner on the market*. Its dynamic depth scan technology enables perfect sharpness and outstanding precision, even at a measuring depth up to 20 mm – a crucial advantage for deeper-lying indications.

What you see is what you get

Due to Primescan's ability to scan at an incredible data density, it delivers complete 3D structures of everything in its field of view – right from the very first scan.

Usability

Enjoy the freedom of scanning. Primescan allows you to start scanning right away. It offers continuous self-

heating for fog-free scanning – which means you're always ready to go. Steep angles? Hard-to access areas? Shiny materials? An easy job for Primescan. Thanks to the increased field of view, you'll be able to visualise larger areas with less sweeps and immediate precision. The excellent scan results are instantly displayed on the touchscreen of the new Acquisition Centre.

Take control of infection:

Three different sleeves guarantee that you'll fulfill your practice needs as well as all general hygiene requirements. Choose from stainless steel sleeves with either sapphire glass or as an autoclavable option. Single-use disposable sleeves are also available.

Speed

Accelerate the process. Primescan's unique technology allows for easy capturing and quicker processing of more data in higher resolution. Intelligent processing in Primescan ensures optimum interaction with the software by transmitting exactly the data the software needs to proceed. The result: complete 3D-scan models are displayed immediately, no matter how fast you scan.

Enhance your connectivity

Thanks to seamless, validated and open data transfer options, laboratories and other partners receive high-resolution models in an instant. With Primescan, you benefit from the freedom to make the best choice of workflows for you and your patients.

The New Acquisition Center

A workstation designed for modern dentistry and with the dentist in

mind. It comes with a touchpad and a 16:9 wide-format movable touchscreen, offering you a highly intuitive and ergonomic work platform.

Your benefits at a glance

- Touchscreen and touchpad for highly convenient, intuitive use
- Kinematics for perfect ergonomic positioning
- Smart Hygiene concept for fast and easy disinfection
- Mobility concept for full mobility with battery buffer of more than 60 minutes

The best choice for your practice – Primescan meets your needs with two individual software configurations:

1. Primescan AC with Connect Software:
 - Supports data transfer options to your preferred partners
 - Secure and encrypted data transfer through Connect Case Centre Inbox
 - Easy upgradability to full chairside workflow

2. CEREC Primescan AC with CEREC Software:
 - Supports full chairside workflows for single-visit dentistry
 - Flexible data export options
 - Automated workflow thanks to Artificial Intelligence

References

Mehl et al, Accuracy studies at University of Zurich, Int J Comput Dent. (publishing date: March 2019)

Learn more at: dentsplysirona.com/primescan



"To me, Primescan sets new standards in dental scanning technology. For both me and my team, intraoral scanning is now more accurate, faster and easier than ever."
Dr. Verena Freier, Dentist



(Photograph: Dentsply Sirona)

MEMOSIL® 2 - the expert for special indications

By Kulzer

MEMOSIL 2 is a transparent A-silicone for special indications. Its transparency allows optical control when positioning aids (e.g. X-ray pellets). Light-curing is possible for filling and fixative materials through placeholders with MEMOSIL 2.

The material is best suited for use as an occlusal stamp for light-curing posterior composites, an anterior stamp for Provisionals, fillings and veneers, a fixation material for x-ray measuring spheres when planning implants and a transfer matrix for bracket constructions on the plaster model.

With MEMOSIL 2, you and dental technicians benefit from:
• Optical control: MEMOSIL 2's transparency facilitates the positioning

of aids. It also allows light curing of composites and fillings through the material.

- More hygiene: Processing of MEMOSIL 2 is clean and hygienic due to its direct and sterile application.

The automix cartridge system saves you time and reduces the risk of registration errors. MEMOSIL 2 also increases treatment comfort for your patients. Thanks to its short time in mouth and the neutral taste and odour, patients are more at ease. An additional benefit for you is the time saving, since it can be applied directly into the patient's mouth. **DT**

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The "Index Technique" in worn dentition. A new no prep restorative approach
Ammannato R, Ferraris F, Marchesi G, Int J Esthet Dent 2015; 10:68-99 **Riccardo Ammannato, DDS** info@studioammannato.com • www.studioammannato.com

MEMOSIL 2

- Vinylpolysiloxan zur Direktapplikation, transparent
- Vinylpolysiloxane for direct application, transparent

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MEMOSIL 2

About the development of the first super quick polyether

Interview with Dr. Joachim Zech, Head of Research & Development of Dental Impression Materials, 3M Oral Care, Seefeld, Germany

By Elke Kopp, New Procedure Marketer, Indirect Business Team, 3M Oral Care, Germany

With the complexity of an indirect restorative procedure, the requirements concerning impression accuracy tend to increase. An error in an impression used to produce a crown may lead to a poor fit, but manual adjustments are usually sufficient to produce a satisfactory result. If a similar error occurs in an impression involving multiple prepared teeth or implants, a remake of the prosthetic work is often necessary.

Does that mean that it is sufficient to use a less accurate impression material for small cases? It does not, as optimizing impression quality means minimizing the risk that impressions need to be retaken and prosthetic work needs to be adjusted. This, in turn, it will save valuable time and lead to a more efficient and economic treatment procedure.

For this reason, many dentists rely on 3M™ Impregum™ Polyether Impression Materials even for their small cases. So far, however, they had to accept a drawback – the comparably long setting time of polyether materials. It slowed down polyether users in comparison to those us-

ing fast-setting VPS materials and reduced the potential time savings. This is no longer the case – due to the launch of 3M™ Impregum™ Super Quick Polyether Impression Material that is currently available in two viscosities (medium and light body). We talked about the development of this innovation with Dr. Joachim Zech, Head of the R&D Team for Impression Materials at 3M in Seefeld, Germany.

Dr. Zech, why did you decide to develop a new superfast polyether impression material?

The main aim of the project was developed based on market research and user feedback. This gave us the insight that the general interest in conventional impression materials is still high – despite the availability and evolution of high performance intraoral scanners. In addition, we found that polyether users are generally very happy with the existing polyether properties, especially the great flow behaviour and reliable performance in the presence of moisture. At the same time, we identified a growing demand for a material that offers these benefits combined with a setting time ideal for small cases. This may be related

to the fact that the number of single tooth restorations placed increases continuously and dentists simply want to obtain the best possible results in the shortest possible time.

How did you manage to reduce the setting time?

The reduction of the setting time was challenging, as we needed to develop a new initiator compound.

It is always possible to adjust the setting times to a certain extent without fundamental changes, but we had exhausted this potential for the existing initiator. Thus, there was no other way to reach our goal than by altering the basic chemistry. We were able to successfully accomplish this task within a reasonable time span thanks to the possibility of collaborating closely with our skilled colleagues from the chemical synthesis plant and from production in Seefeld. In this way, we were able to streamline the complete process from raw material development to production.

You said that the basic chemistry was altered. Is 3M™ Impregum™ Super Quick Polyether Impres-

sion Material still a true polyether?

Yes, the new material is a true polyether. The new base paste also contains the aziridino-polyether – the beating heart of every polyether impression material. Hence, the reactive groups and the curing mechanism in this paste are still the same. In addition, the newly developed initiator compound is made of a molecule that is similar to the existing one. The small, but decisive difference lies in the substituents, which are larger and exhibit a higher reactivity. The result is a faster setting reaction and – as a beneficial side effect – a more neutral taste of the impression material. Exchanging the initiator also required us to exchange or add a few other components mainly in the catalyst paste, including plasticizers and pigments.

How is a high product quality ensured?

Extensive testing of the basic raw materials and the pastes in the development phase was carried out to ensure that the proven polyether properties are still offered. The raw materials undergo comprehensive chemical-physical analysis and physical-mechanical tests are usually used for characterization of the pastes. In the first step, the test results are used to identify the most promising formulations and to adjust and fine-tune the components for final product development. Later, they are needed to ensure that the internal quality standards are met, while some of the tests are needed, e.g. for FDA approval and CE certification of the final product. As a matter of course, every batch of polyether impression material produced in Seefeld is subjected to strict quality controls.

Is the high product quality the main argument for dentists to test the new material?

It is the well-balanced and proven material properties combined with the short setting reaction that make the material worth testing in the practice environment. Many dental practitioners prefer polyether impression materials whenever intraoral moisture control is difficult. For those who are not familiar with the typical intrinsic hydrophilic-



Dr. Joachim Zech, Head of Research & Development of Dental Impression Materials, 3M Oral Care, Seefeld, Germany

ity of polyethers and the clinical behaviour related to this feature, it might be a perfect occasion to find out more about it now. For existing Impregum users, it might be interesting to start using a true polyether for their small cases as well – or to increase their productivity by replacing a slower setting polyether in this situation. Many of those who have already tested the innovative addition to the Impregum family are enthusiastic about it and would recommend it to their colleagues*.

*Source: 3M field evaluation with 447 participants from Europe and the U.S., 2017.

To learn more about 3M™ Impregum™ Polyether Impression Materials please visit: www.3Mae.ae (Gulf countries), www.3m.com.sa (Saudi Arabia) or contact us at: 3MOralCareGulf@mmm.com

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Looking forward to welcoming you at 3M Oral Care Booth #6B01 at AEEDC, Dubai, on 5-7 Feb 2019.



Fig. 1: Decanting of the base paste of 3M™ Impregum™ Super Quick Polyether Impression Material into a storage container.



Fig. 2: View into the preparative laboratory.



Fig. 3: Employees at the chemical synthesis plant of 3M in Seefeld.



Fig. 4: Reaction tank in the laboratory.



Fig. 5: Automatic packaging of the cartridges.



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Hu-Friedy and WeRestore.it release new restorative kit

ByHu-Friedy

FRANKFURT AM MAIN, Germany: Creating aesthetic restorations requires a significant amount of attention to detail, as well as the right tools. To aid dentists in performing their best possible work, Hu-Friedy, in collaboration with Drs Gaetano Paolone and Salvatore Scolavino of WeRestore.it, has recently announced the release of a new and simplified basic set for direct and indirect restorative procedures, the 3SENTIAL KIT.

Until now, the minimum number of instruments in a kit was five, and with an array of instruments on the market, it has become increasingly difficult for practitioners to make the right choices. Aiming to create something more compact, essential and easy to use, the creators of the 3SENTIAL KIT settled on just three instruments: Anterior (red), Posterior (blue) and Spatula (grey).

Speaking about the new kit, Scolavino said: "The concept behind the Posterior is very simple: we wanted to go from a plug-and-play to a plug-and-sculpt method. One tip is used to plug the composite into the cavity and the other one can sculpt and model composite in additive and subtractive modelling techniques". According to Paolone and Scolavino, the Anterior is referred to as a solid

brush, since it models and spreads the composite just like a brush.

Giana Spasic, Manager of Key Opinion Leaders Strategy at Hu-Friedy, said the company is always looking to work with key opinion leaders, specialists, private practitioners, universities and educators, with the purpose of finding new ways to help clinicians to perform at their best.

The creators believe the kit is the most straightforward restorative kit ever made and is perfect for clinicians who want to save precious time in the dental office during restorative procedures and achieve remarkable aesthetic and functional results.

Visit us at 2019 AEEDC Dubai at booth 6F10. [DT](#)

Mectron prophylaxis

Full mouth periodontal treatment using the new perio anatomic inserts P15, P16R, P16L

By mectron S.P.A.

Mectron has recently launched on the market 3 new ultrasound inserts specially designed to perform gentle and safe periodontal debridement.

The inserts guarantee the maximum efficacy without risk of injury to the soft tissues and the periodontal ligament.

The inserts' shape allows an optimal access to the areas difficult to reach and characterized by deep periodontal pockets (furcations, root surfaces, concavities).

The preserved tissues allow a new attachment formation.

The cavitation effect allows mechanical biofilm disruption, bacteria

dispersion and periodontal pockets detoxification, thanks to the oxygen delivery.

The inserts in detail

P15: universal curette for supra and subgingival treatment. Recommended for the debridement of deep periodontal pockets. Easy access to canine and anterior teeth. Replaces manual curettes n° 1-2, 3-4, 5-6, 7-8.

P16R – P16L: right (P16R) and left (P16L) angled periodontal curettes for subgingival concretions and biofilm removal from furcations and deep pockets. Recommended for supra and subgingival interproximal spaces and for an efficient root planing on molars and premolars. Replace manual curettes n° 11-12, 13-14, 15-16, 17-18. [DT](#)

For more information contact:

mectron S.P.A.
Via Loreto, 15/A
16042 Carasco (GE) – Italy
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P15



P16R



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medical technology

Unlimited flexibility. HyFlex EDM NiTi System with additional files sizes allowing more flexible application

By Coltene

Due to limited access endo experts often want more flexibility from their instruments. Pre-bendable tools can extend the horizon into new dimensions. Particularly in a limited working space, modular nickel-titanium systems display their full strength. From now on dentists can choose from a series of additional file sizes for a fast and safe instrumentation to the remotest parts of the root canal system.

21 mm Agility

With a total of seven highly flexible file variants, the Swiss dental specialist COLTENE is now expanding its wide-ranging HyFlex NiTi program. In addition to the usual lengths of 25 mm, all preparation files of the popular EDM series are now also available in 21 mm working length.

The application of the more agile, shorter models is particularly recommended in the treatment of the posterior molars and in patients with cranio-mandibular problems. Being just about the size of a five cent coin, the new HyFlex EDM files enable comfortable work in insufficient interocclusal space. The secured working with the pre-bendable NiTi files becomes now a straight forward matter.

The new HyFlex EDM 20/05 augments the existing HyFlex EDM line. The additional file enables fans of the flexible NiTi range to treat curved channels only with the efficient EDM files. After creating a glide path with the Glidepathfile 10/05, the new file with the same taper allows minimally invasive, fast preparation of the canal. Subsequently the actual shaping can be done in the usual manner

with the universal file HyFlex EDM OneFile, size 25. Depending on the channel anatomy, apical preparation can be finished with EDM files up to ISO size 60. Even in these large sizes the files work safely and without transportation of the canal centre. The good cutting performance and fracture resistance of the flexible NiTi files, is due to a special manufacturing process referred to as "Electrical Discharge Machining" (EDM in short). Based on their robust high performance they are ideal for both, Endo specialists and general practitioners who want to produce reliable results with a reduced number of files.

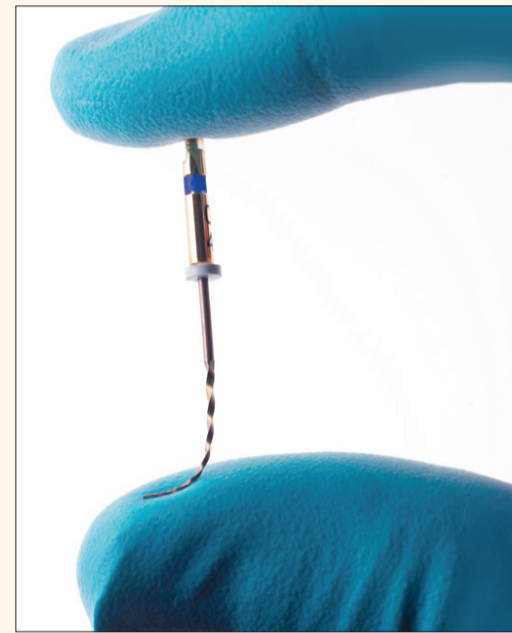
Who invented it?

The Swiss dental specialist COLTENE already introduced its HyFlex files to the market in 2010, creating the new era of "Controlled Memory" (CM) files

at a time when other manufacturers did not yet know the difference between austenitic and martensitic files. HyFlex EDM files also benefit from the so-called "CM" treatment and can be modularly supplemented with the classic HyFlex CM series. Apart from that, the COLTENE team of experts supports ENDO specialists as well as general practitioners to learn the optimal handling of well-designed working aids with a large selection of hands-on workshops, training materials and personal service offers.

For more information visit:

Coltene
Web: www.coltene.com



HyFlex EDM NiTi System

AD





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New Chiropro – Bien-Air Dental unveils its new implant motor

Designed to simplify the fitting of implants, the new Chiropro has been fully developed around a single philosophy: simplicity.

By Bien-Air Dental

A single control knob allows you to control the entire system. Simply turn the knob to navigate via the menus and adjust the settings, and press it to confirm the selected value. Moreover, the control knob - the only point of contact between dentists and the unit during procedures - can be easily removed and sterilised to simplify maintenance. Thanks to its clear and concise interface, the new Chiropro plainly displays all the information required for procedures to go smoothly: type of instrument, speed, torque, irrigation flow and direction of rotation. Pre-set operating sequences and the option to modify settings based on patients' dental features, also make the new Chiropro easier to use.



offering an unparalleled service life, the CA 20:1 handpiece is fitted with a brand-new internal irrigation system. The irrigation line will not inconvenience dentists when they are using the handpiece.

Powered by the Chiropro, the new MX-i micromotor and CA 20:1 handpiece combine to offer you the very best rotary technology for all your implantology procedures. Coupled with the MX-i micromotor, the CA 20:1 handpiece provides an exceptionally stable speed, for precise and smooth procedures. As well as

For further information, please contact:

Bien-Air Dental
Länggasse 60, 2500 Bienne 6, Switzerland
Email: fanny.vongunten@bienair.com
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One step ahead

HyFlex™ EDM & CM

Nothing is more annoying than a broken file, a perforated or deformed root canal and step formation. To prevent those issues as much as possible it requires not only great finesse, but also endodontic files with special properties. This is why the HyFlex EDM files have been developed with optimum cutting efficiency, perfect flexibility and extremely high breakage resistance of 700%. Upgrading an idea to a solution.

Dietmar Goldmann
P +41 71 757 54 40
dietmar.goldmann@coltene.com

www.coltene.com

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Better Quality. Better Reliability. Better Practice.

