# ENDO TRIBUNE

The World's Endodontic Newspaper · U.S. Edition

November 2008

www.endo-tribune.com

Vol. 3, No. 11

#### Inside this issue

Berlin Masters is June 26-27



nual Roots Summit and Implants Summit — will be held in Berlin June 26 and 27, 2009. Both summits, which will run parallel to one another, will feature hands-on training and lectures from the top names in dentistry worldwide.

Page 2

#### The emergency implant procedure



Sometimes patients present with unscheduled emergency conditions that require immediate tooth removal. Unrestorable crown and root fractures are often ideal clinical scenarios for immediate implant placement.

#### Profound anesthesia with the STA System



Thanks to the Computer Controlled Local Anesthesia Delivery System (CCLAD) known as the STA Anesthesia System by Milestone Scientific, endodontic procedures can be stress-free for practitioners and their patients.

Page 10

# Treatment planning for optimal endodontic results

Dr. Mounce will perform a live endodontic demonstration at the Greater New York Dental Meeting on Dec. 2 and 3. He has written an introductory piece to discuss some of the exciting technology (the Twisted File and the RealSeal One Bonded Obturator, SybronEndo, Orange, Calif.) that attendees will see in the demonstrations.

#### By Richard E. Mounce, DDS

It has always been a strong bias of mine that great endodontic results are the outcome of a process that is planned and well organized from the start. Planning in this context includes assessing that the given clinician is the best person to tackle the case at hand and bring the needed experience, equipment, training and time to the case. As part of the needed preoperative planning, prior to starting any endodontic procedure, the case should be carefully assessed for iatrogenic risk factors and strategies should be developed to avoid these possible problems.

For example, an examination of the case shown in Figure 1a (#18), demonstrates a risk of perforation on the mesial root, though not an extreme one. The mesial root is also at risk of rotary nickel titanium file

fracture, especially if a large rotary nickel titanium instrument is inserted into the root with too much force in the absence of an adequate glide path. Figure 1b shows the completion of treatment.

All treatment should be carried out under the rubber dam after profound anesthesia has been obtained. Access should be straight line with the cervical dentinal triangle removed. All unsupported tooth structure is removed and all canals located before proceeding below the orifice. Ideally, treatment is Figs. 1a, 1b: The clinical case mentioned. performed under a surgical

operating microscope (SOM) (Global Surgical, St. Louis, Mo.) for not just optimal visualization but optimal tactile control over the treat-



The choice of a rotary nickel titanium file (brand, design, taper, tip

# Take a bite of New York's education apple

By Robin Goodman, Group Editor

Get ready to sink your teeth into the Big Apple in a way that only the Greater New York Dental Meeting can provide.

With a myriad of new programs on and off the exhibit floor as well as seminars and workshops, you'll want to plan your time carefully.

You definitely won't want to miss the first Dental Tribune Symposia, to be held from Sunday, Nov. 30, to Wednesday, Dec. 3, where you can learn all you need to know about "getting started in" endodontics, implantology, cosmetic dentistry or digital dentistry.

You can also witness "Live Dentistry" on the exhibition floor, where you can watch procedures that showcase the latest in dental technologies and materials. Also on

the exhibit floor, in glass-enclosed areas, you can attend workshops that will present a broad spectrum of up-to-date, hands-on procedures. You can even earn one hour of C.E. credit for walking the expanded exhibition floor, home to more than 1,500 booths overflowing with information and demonstrations on the latest innovations in dentistry.

Dental Tribune America is the official media partner of the meeting, so look for our show daily editions as you enter the convention center from Nov. 30 to Dec. 3.

For more information about the offerings of the Dental Tribune Symposia, please look inside this issue of Endo Tribune.

Illustration by Yodit Tesfaye Walker

PRSRT STD PAID Permit # 306 Mechanicsburg, PA

# Dental Tribune to hold Berlin Masters

Dental Tribune recently announced that Berlin Masters — featuring the annual Roots **Summit and Implants Summit** — will be held in Berlin on June 26 and 27, 2009.

As the cultural hub of modern Germany, Berlin ranks with London, New York and Paris as one of the great cities of the world. Berlin is one of the most important cities in Europe and can cater to the most diverse tastes during the day and certainly provide enough highbrow entertain-

ment to fully justify indulging in the city's nightlife later. Also ranking among the worldwide top international conference locations, Berlin will be the perfect destination for dentists to enjoy the tradition of the Summit. Located in the center of the city, the event will take place in the Hotel Palace Berlin, one of the most renowned



hotels in the German capital.

Both the Roots Summit and the Implants Summit, which will run parallel to one another, will feature hands-on training as well as lecture presentations from the top names in dentistry worldwide.

Dental Tribune International invites you to join clinicians from all over the world as they come together and learn about the latest techniques, products and innovations in the fields of endodontics and implantology.

Program details will follow in futrure issues of Endo Tribune.

In the meantime, if you have any questions, please contact Julia Wehkamp at (416) 907-9836 or j.wehkamp@dtamerica.com.

# Enhancing your dentistry: Get out of dentistry alive!



Don't miss Randy Donahoo's lecture at the Dental Tribune Symposia during the Greater N.Y. Dental Meeting at 1:30-2:30 p.m. on Dec. 2.

This course will provide you with an opportunity to see for yourself turn the benefits of "breads up" den tistry can enhance your practice. Experience first hand the Dental Procedure Scope, a life-changing device that provides increased magnification, superior lighting and improved ergonomics all in one device. The becture will provide an overview of how Dental Procedure Scopes work, their capabilities and the case of which they can be incorporated into your daily routine. Learn how they can enhance your practice and put the fun back into dentistry. It's just a wonderful way to spend your day!



#### Minimally invasive dentistry in rapid-fire fashion



Don't miss Dr. Jesse's and Dr. Kaminer's lecture at the Dental Tribune Symposia during the Greater N.Y. Dental Meeting at 3-4 p.m. on Dec. 1.

Topics to be discussed include the following: caries management by risk assessment; current concepts in cariology; minimally invasive endodontics; banded fiber posts; dental lasers; minimally invasive periodonties; current advances in tooth whitening; bonding agents: separating the truth from the hype; and much more. This program will introduce concepts that will change the way you practice forever.



#### Using 3-D X-ray imaging and planning to increase patient treatment acceptance



Catch Dr. Patel's lecture at the Dental Tribune Symposia during the Greater N.Y. Dental Meeting at 10 a.m.-1 p.m. on

Dr. Patel will share a practicul perspective of cone beam technolugy and its multiple uses in "real world" private practice. He will shed light on what the future has in offer and give insight into the impact CBCT technology can have from a business standpoint - return on investment (BOI)! By the end of the presentation, attenders should:

- Understand how 5-D technolngy can benefit the modern dental practice.
- . Learn how state-of-the-art 3-D digital dentistry is being done
- \* Acquire the tools for implement ing 3-D X-ray imaging and software in their practice.



#### Earn C.E. credits! Attendance is free for all GNYDM visitors!

For more information and registration, please contact Julia Wehkamps j.wehkamp@dtamerica.com.

#### Corrections

Endo Tribune strives to maintain the utmost accuracy in its news and clinical reports. If you find a factual error or content that requires clarification, please report the details to Fred Michmershuizen, managing editor, at f.michmershuizen@dtamerica.com.

Tell us what you think!

Do you have general comments or criticism you would like to share? Is there a particular topic you would like to see more articles about? Let us know by e-mailing us at **feedback@ dtamerica.com**. If you would like to make any change to your subscription (name, address or to opt out) please send us an e-mail at database@dtamerica.com and be sure to include which publication you are referring to. Also, please note that subscription changes can take up to 6 weeks to process.

Publisher

Torsten R. Oemus t.oemus@dtamerica.com

Eric Seid e.seid@dtamerica.com

**Group Editor** 

Robin Goodman r.goodman@dtamerica.com

Editor-in-Chief Endo Tribune Frederic Barnett, DMD BarnettF@einstein.edu

International Editor Endo Tribune Prof. Dr. Arnaldo Castellucci

Managing Editor Endo Tribune Mr. Fred Michmershuizen f.michmershuizen@dtamerica.com

Managing Editor Implant Tribune s.rendon@dtamerica.com

Managing Editor Ortho Tribune Kristine Colker k.colker@dtamerica.com

Product & Account Manager Humberto Estrada h.estrada@dtamerica.com

Marketing Manager Anna Włodarczyk-Kataoka a.włodarczyk@dtamerica.com

Marketing & Sales Assistant Lorrie Young l.young@dtamerica.com

C.E. Manager Julia Wehkamp j.wehkamp@dtamerica.com

Design Support Yodit Tesfaye y.tesfaye@dtamerica.com

**Dental Tribune America, LLC** 213 West 35th Street, Suite #801 New York, NY 10001 Tel.: (212) 244-7181 Fax: (212) 244-7185

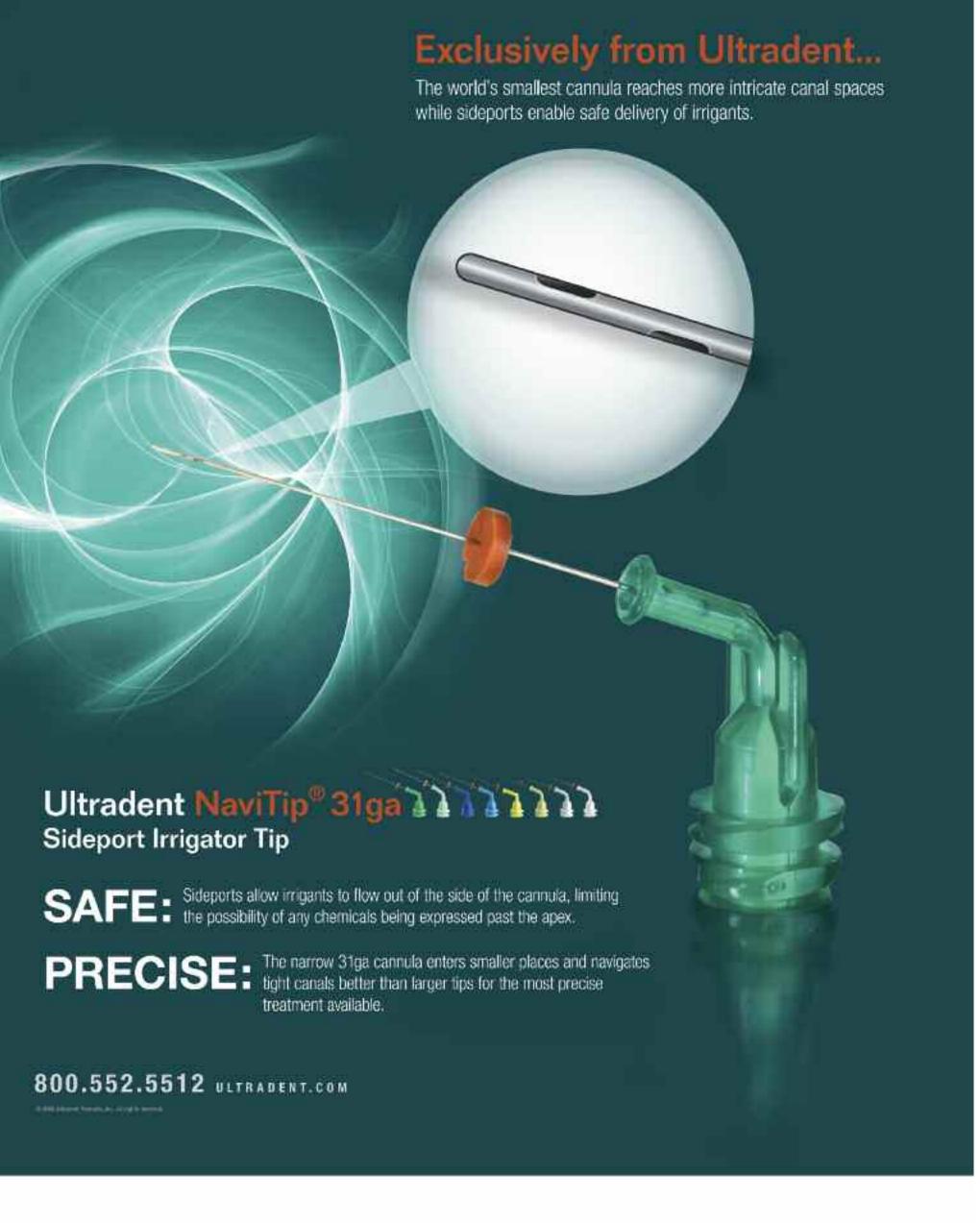


Published by Dental Tribune America © 2008, Dental Tribune America, LLC. All rights reserved.

Dental Tribune America makes every effort to report clinical information and manufacturer's product news accurately, but cannot assume re-sponsibility for the validity of product claims, or for typographical errors. The publishers also do not assume responsibility for product names or claims, or statements made by advertisers. Opinions expressed by authors are their own and may not reflect those of Dental Tribune America.

#### **Editorial Advisory Board**

Frederic Barnett, DMD (Editor-in Chief) Roman Borczyk, DDS L. Stephen Buchanan, DDS, FICD, FACD Gary B. Carr, DDS Prof. Dr. Arnaldo Castellucci Joseph S. Dovgan, DDS, MS, PC Unni Endal, DDS Fernando Goldberg, DDS, PhD Vladimir Gorokhovsky, PhD Fabio G.M. Gorni, DDS James L. Gutmann, DDS, PhD (honoris causa), Cert Endo, FACD, FICD, FADI William "Ben" Johnson, DDS Kenneth Koch, DMD Sergio Kuttler, DDS John T. McSpadden, DDS Richard E. Mounce, DDS, PC John Nusstein, DDŚ, MS Ove A. Peters, PD Dr. med dent., MS, FICD David B. Rosenberg, DDS Dr. Clifford J. Ruddle, DDS, FACD, FICD William P. Saunders, Phd, BDS, FDS, RCS Edin Kenneth S. Serota, DDS, MMSc Asgeir Sigurdsson, DDS Yoshitsugu Terauchi, DDS John D. West, DDS, MSD







# **Treatment** planning

←ET page 1

size, etc.) for any given tooth should be made with the following considerations, among others:

- Final apical taper size, which can be created to the apex.
- Flexibility.

AD

- Cutting ability.
- Resistance to fracture.
- Centering ability, lack of trans-
- Final master apical diameter, which can be created.
  - Ease of sequencing.
- Tactile control (lack of screwing in being one measure of tactile control).

With regard to the final criterion, I have selected the Twisted File (TF) (SybronEndo, Orange, Calif.) as my RNT file. It possesses the ability to:

- Instrument approximately one third of the canals encountered with a single file.
- Instrument approximately one third of the canals encountered with



Fig. 2: The Twisted File (SybronEndo, Orange, Calif.)

two single TFs.

- Instrument the remaining cases, other than those above, generally with three TFs.
- Create greater tapers than ever before to the apex. Clinically, the mesial root of a lower molar can easily be enlarged to a 0.08 taper from the orifice to the apex. Even the most severe 90-degree curvature can be treated to a minimum 0.06 taper, and likely a 0.08 taper, if done correctly.
- Perform the above functions without clinically relevant trans-



Fig. 3: The RealSeal One Bonded Obturator (SybronEndo, Orange, Calif.)

portation and with excellent tactile control and minimal insertions per canal, usually three to four.

The TF is simple to use and master. There are five files — 0.12, 0.10, 0.08, 0.06 and 0.04, with a fixed #25 tip size (at this time, larger sizes are planned for introduction). The TF is used after the achievement of patency in the given portion of the canal being enlarged and after a glide path is created. A glide path means that the canal has been enlarged to a minimum #15 hand Kcrown down from larg- Orange, Calif.) er TFs to smaller. The

TF is inserted to resistance in a single continuously controlled insertion that usually takes two to three seconds. The TF is never pumped up and down in the canal. Irrigation and recapitulation should be carried out after every TF insertion. The TF is rotated at 500 to 900 rpm, with higher speeds used for retreatment, 1,200 rpm or higher. The TF can remove the plastic carriers of warm carrier-based obturation techniques easily and rapidly. If the clinician wishes to create larger apical diameters than a #25, he or she may do so any way desired with additional files. It should be remembered that the final prepared taper with a TF is usually 0.08 or higher, and this mitigates to some extent the #25 tip size if larger apical diameters are not created.

In my empirical opinion, canal preparation should be taken to the minor constriction (MC) of the apical foramen. The position of the MC can be determined and verified precisely by the following means:

- Electronic apex locator.
- Bleeding point determination.
- Confirmation with a tactile pop of a hand file as it passes out of the

Irrespective of whether the canal is prepared to larger apical diameters or not, the correct size of the



 $file. \ \ The \ \ TF \ \ is \ \ used \ \ \textbf{Fig. 4: The RealSeal One Bonded Obturator Oven (SybronEndo, and a support of the content of the$ 

(RS1) that will be used to obturate the canal can be selected with an RS1 size verifier before obturation. The RS1 technique allows the clinician to obturate canals efficiently and predictably with a warm obturation technique using a carrier that is dissolvable in chloroform as well as easily removed with the TF. More importantly, the RS1 can create a bonded obturation from orifice to

RealSeal One Bonded Obturator

**RS1 obturators:** 

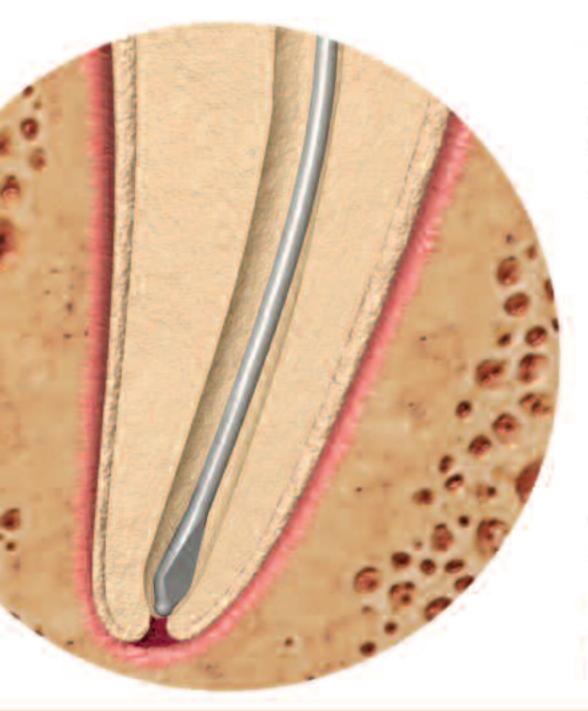
apex as described below.

- Are available in 0.04 taper and tip sizes of 20-90.
- Are used with a chemically compatible sealer. There are methacrylates in the RealSeal core material as well as the sealer. There is a chemical coupling of the methacrylates between the core filling material (i.e., the RealSeal) and the self-etching RealSeal sealer. Obturation with either RealSeal master cones or RS1 obturators allows impregnation of the tubules with sealer. The hybrid layer that is created in this process reduces coronal leakage relative to guttapercha in a statistically significant manner giving it clinical signifi-



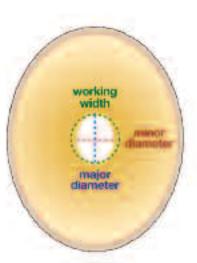
# 360° clean. 100% confidence.

Biologically Optimal Preparations™ that are safe, conservative and predictable.



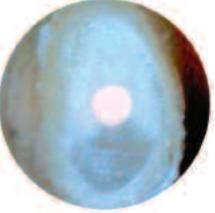
#### Canais are oval, not round.

LightSpeedLSX" addresses working length and working width... mastering the apical third.



#### The moult:

A Biologically
Optimal Preparation."
Note the perfectly
round shape,
complete absence
of necrotic debris,
and abundance
of healthy dentin
surrounding it.



cross-section from from the apox

# Call for your demonstration today:

800-817-3636

www.discuadental.com/endo

LightSpeedLSX

## **EndoPAL**



Powerful and long-lasting.

The cordless
EndoPAL\*
handpiece delivers
optimal speed and
torque for LSX
instrumentation.

## EndoVac



True apical negative pressure.

EndoVac<sup>®</sup> is the only endodontic root canal impation system that can safely and abundantly deliver impant to the apical 1mm.

## **SimpliFill**



The ideal

Each 5mm
Simplifill Apical
Plug perfectly fits
its corresponding
LSX preparation
size. Optimized
by design and
available in
Gutta Percha &
Ression.

### **HotShot**



Cordiess. Clean. Thermoprotected.

Maximize your degrees of freedom with the HotShot gun – the ultimate in backfill obturation.





#### ← ET page 4

**RS1** Clinical Application:

- 1) After TF preparation, a plastic size verifier is used to determine the correct RS1 size.
- 2) RealSeal self-etching sealer is then applied.
- 3) The RS1 is heated in a RS1 oven and placed to length within six seconds to the true working length.
- 4) After placement, the RS1 can be cut off at the orifice with a heat source, such as the Elements Obturation Unit (SybronEndo, Orange, Calif.)
- 5) The RealSeal system is a dual cure system. The sealer will self-cure in approximately 40 minutes or the obturation can be cured in the coronal third with a light. Post space can be made using a post drill after first curing the obturation with a light and again curing the preparation after post space preparation.

A common question is asked with regard to matching the RS1, which is 0.04 taper, and the TF canal preparation, which is 0.08 or 0.10. Much as a smaller cup fits into a



Figs. 5, 6: Clinical cases treated with the Twisted File and RealSeal One Bonded Obturators.

larger cup and both are tapered, a smaller taper (smaller cup) fits into a larger taper (larger cup). Any discrepancy of taper size between the RS1 and the taper of the prepared canal is filled with the RealSeal material around the obturator core. It is noteworthy that the RealSeal material physically adheres to the obturator core and that gutta-percha does not adhere to any significant degree to the plastic core of other warm carrier-based devices. This adherence of RealSeal to the core can only improve the hydraulics of the move-

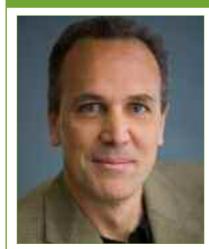
prove the hydraulics of the movement of the RealSeal into the narrowing cross-sectional diameters of the prepared canal.

The clinical case (#18) shown in Figure 1b was obturated with RS1 in canals that had been prepared with a TF. The final taper of both roots was 0.08. Due to the enhanced taper of the preparation relative to that which might have been created with ground files, it is a consistent finding that the 0.08 and 0.10 TF preparations consistently require a #35 obturator.

Past objections to warm carrier-based products were related to a lack of bonding, difficulty in retreatment and cost. Aside from cost, these objections have been overcome. Aside from bonding, which could not be accomplished with past warm carrier-based devices, RS1 obturators are dissolvable in chloroform and also can be removed very easily with the TF at higher rotational speeds, such as 1,200 rpm and above (Figs. 2–6).



About the author



Richard E. Mounce, DDS

Dr. Richard E. Mounce lectures globally and is widely published. He is in private practice in endodontics in Vancouver, Wash. He offers intensive customized endodontic single-day training programs in his office for groups of doctors.

For more information, contact Dennis at (360) 891-9111 or RichardMounce@MounceEndo.com.

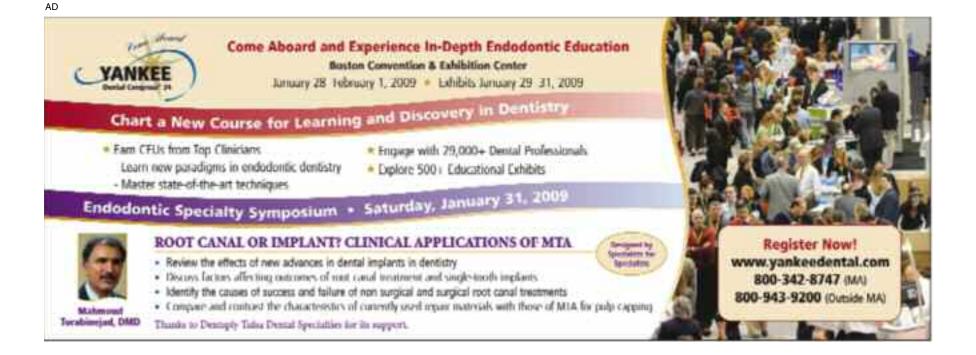
#### **Increase Your Endodontic Efficiency**

Presented by Richard Mounce, DDS at the Greater New York Dental Meeting Live Dentistry Theater Tuesday, Dec. 2 *and* Wednesday, Dec. 3, 2008, 2–5 p.m.

This multi-media LIVE patient demonstration is designed for general practitioners to improve their daily endodontic skills. Topics include: diagnosis, case selection, the latest endodontic instrumentation, and the cleansing, shaping and packing of the root canal system in three dimensions with warm bonded obturation techniques. The program also includes an introduction to the surgical operating microscope as well as discusses the importance of coronal seal and the role of endodontics in treatment planning. Attendees will learn the following:

- The biologic objectives of root canal therapy.
- The importance and methods of effective biomechanical cleansing of the root canal system.
- Endodontic diagnostic decision making, case selection and organization of armamentarium
  - Optimal obturation of root canal systems with warm filling techniques

All equipment and supplies are provided courtesy of SybronEndo and the Greater New York Dental Meeting.



# Emergency dental implant procedures

By Drs. Nicholas Caplanis and Jaime Lozada

Patients often present to the office with unscheduled emergency conditions that require immediate tooth removal

These situations have become increasingly complex to deal with given the myriad available treatment options, which impact the treatment approach and methodology of both tooth extraction as well as provisionalization.<sup>1</sup>

Unrestorable crown and root fractures are often ideal clinical scenarios for immediate implant placement given the frequent lack of overt infection and alveolar bone damage, which is often associated with other emergency conditions such as endodontic and periodontal abscesses. Failure to perform immediate implant placement or site preservation during the emergency visit often leads to a loss of alveolar bone, which greatly impacts dental implant treatment success. When comparing the excellent long-term success rates of implants with the guarded long-term prognosis of a badly fractured tooth requiring endodontic treatment, crown lengthening surgery, and a post and core buildup, extraction and site preservation or immediate implant placement is frequently the ideal treatment approach.

A clinical study of 534 fractured teeth reported a 20 percent failure rate when conventional therapy was performed, specifically, endodontic treatment, post and core buildup and a tooth-supported crown.<sup>2</sup> Immediate implant placement following an emergency extraction should therefore be an integral part of emergency treatment.

Strategies to manage the extraction defect have been previously published providing algorithms to help guide implant treatment procedures, including immediate implant placement following tooth extraction. Guidelines for predictable immediate provisionalization of immediate implant have also been previously established.

A one-year prospective study reported a 100 percent implant success rate and also suggested improved esthetic outcomes are achieved following this approach when compared to extraction alone without implant placement. The ability to quickly and effectively treat these emergency scenarios improves patient satisfaction, facilitates patient management and is a tremendous clinical service.

Therefore, the dental office and team should be well-equipped, or referral guidelines be effectively established, to allow for efficient and predictable dental implant placement during these types of emergency appointments. The following two clini-

cal case reports describe a simple and effective process to treat hopelessly fractured teeth using dental implants and either a bonded restoration as a provisional or a provisional placed immediately on the implant.

#### Patient 1

A 65-year-old Asian female presents for a new patient emergency exam, with an oblique crown and root fracture affecting her maxillary right central incisor. The fracture occurred spontaneously while eating, involved the entire facial surface of the tooth and extended



Fig. 1a: Emergency presentation of unrestorable crown and root fracture of tooth #8.

to the alveolar crest (Figs. 1a, 1b). vere mobility and was painful The clinical crown exhibited se- upon palpation and percussion.

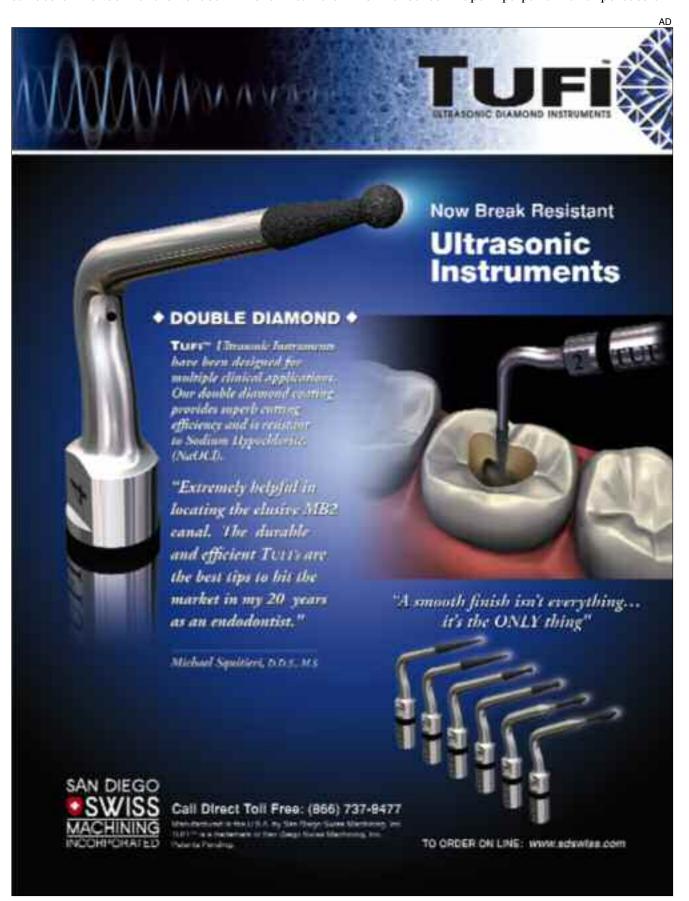




Fig. 1b: Radiograph of oblique crown and root fracture tooth #8.



Fig. 1c: Intact clinical crown to be used as bonded provisional.



Fig. 1d: Fractured crown bonded to adjacent dentition serving as primary provisional.



Fig. 1e: Radiograph of immediate implant in place with bonded provisional.

The prognosis was poor and extraction was advised.

Treatment options to replace the tooth were discussed and included a fixed partial denture as well as an implant supported crown. Given the excellent condition of the adjacent teeth as well as the patient's prior history of having successful dental implant-supported restorations, she elected to have an implant placed.

The crown portion of the tooth was easily removed and, given its excellent condition, was retained to be used as a bonded provisional (Fig. 1c). The tooth root was extracted atraumatically without flap elevation and the socket debrided, irrigated and evaluated with a periodontal probe. The extraction defect had minor horizontal bone loss associated with a reduced periodontium secondary to a prior history of periodontitis, but the adjacent socket walls including the buccal crest were otherwise intact. Therefore the defect appeared amenable for immediate implant placement. A 4.3 x 16 mm Replace® Select implant (Nobel Biocare™) was placed and utilized the entire length of the alveolus and engaged the nasal floor, in order to achieve effective primary stability (Fig. 1e). After implant placement, the residual socket defect was grafted with a composite anorganic bovine bone matrix (Bio-Oss® Osteohealth®) and a demineralized cortical bone allograft (OraGraft® LifeNet®). Composite was bonded to

> the fractured surface of the clinical crown in order to develop an ovate surface to maintain soft tissue esthetics. The modified clinical crown was then bonded to the adjacent teeth and served as a primary provisional restoration (Fig. 1d). The patient was then referred back to her restorative dentist the next day to fabricate an immediate provisional supported by the implant. The emergency

appointment including the extraction, placement of the implant, grafting of the residual socket defect and bonding of the primary provisional restoration took approximately one hour of clinical time.

#### Patient 2

A 35-year-old female presented at the emergency clinic of Loma

Linda University School of Dentistry and was immediately referred to the Center for Implant Dentistry. She complained of trauma to her maxillary anterior dentition after an alleged assault, a "blow to the face," two days previously. Upon examination, the maxillary left central incisor was partially fractured at mid root and exhibited grade III mobility (Fig. 2a). The left lateral incisor was tender to percussion and exhibited grade 1 mobility, but it recorded a negative response with ethyl chloride and electronic pulp testing.

The patient was then scheduled to undergo an emergency procedure at the clinic consisting of atraumatic extraction of the affected tooth and immediate implant placement with immediate provisionalization. The fractured tooth was extracted and the remaining root fracture was removed utilizing a periotome instrument (Fig. 2b). The alveolus was curetted and no bone fenestration was noted. A Nobel Active dental implant was used to replace the extracted tooth (Fig. 2c). The osteotomy was performed palatal to the alveolus in order to obtain maximum stabilization

for the implant. The implant was seated at 35 ne stability, which made the clinical situation viable for immediate provisionalization. A prefabricated abutment was placed and hand torqued to provide the support for the acrylic resin restoration. The provisional crown was then relieved from all occlusal contacts (Fig. 2d). Intraoperative radiographs revealed adequate position of the implant in relation to the adjacent dentition and bone implant level.

The emergency dental implant procedure should be considered a viable and often Fig. 2d: An immediate acrylic restoration is used as a preferable treatment approach to treat emergency

situations that ultimately lead to tooth loss such as root fractures. When appropriate, immediate pro-





Fig. 2b: Periotome and forcept extraction of fractured



Fig. 2c: Immediate implant is placed achieving excellent primary stability.



provisional.

visionalization or bonding of the fractured crown can be used as a provisional restoration.

## References

- 1. Iasella JM et.al. Ridge preservation with freeze-dried bone allograft and a collagen membrane compared to extraction alone for implant site development: A clinical and histologic study in humans. J. Periodontol 2003 74(7): 990-9.
- 2. Cvek M, Tsilingaridis G, Andr-
- easen JO. Survival of 534 incisors after intra-alveolar root fracture in patients aged 7-17 years. Dent Traumatol. 2008 Aug; 24(4):379-87.
- 3. Caplanis N, Kan J, Lozada JL. Extraction defect assessment, classification and management. Journal of the California Dental Association. 2005; 33(11): 853–863.
- 4. Wöhrle PS. Single-tooth replacement in the aesthetic zone with
- immediate provisionalization: fourteen consecutive case reports. Pract Periodont Aesthet Dent. 1998 Nov-Dec.; 10(9):1107-14.
- 5. Kan JY, Rungcharassaeng K, Lozada J. Immediate placement and provisionalization of maxillary anterior single implants: 1year prospective study. Int J Oral Maxillofac Implants. 2003 Jan-Feb; 18(1):31-9.

AD

#### **About the authors**



**Dr. Nick Caplanis** 

Dr. Nick Caplanis is an assistant professor and part-time faculty member within the graduate program in implant dentistry at Loma Linda University School of Dentistry. Caplanis has a unique background with formal residency training in the inter-related fields of implant surgery, prosthodontics and periodontics. He is board certified and a diplomate of both the American Board of Periodontology and the American Board of Oral Implantology and is a fellow of the American Academy of Implant Dentistry. He was also the general meeting chairman for the 57th annual meeting of the AAID, which was held in San Diego from Oct. 29-Nov. 1. Caplanis maintains a full-time private practice limited to periodontics and dental implant surgery, in Mission Viejo, Calif.



#### Dr. Jaime Lozada

Dr. Jaime Lozada is the director of the graduate program in implant dentistry and a professor at Loma Linda University School of Dentistry. Lozada has been involved with implant dentistry for more than 20 years. He completed his residency in implant dentistry in 1987 and his graduate prosthodontics certificate in 1997. Lozada has trained hundreds of residents and fellows in the latest techniques in oral implant surgery and prosthodontics. Lozada is a fellow and past president of the American Academy of Implant Dentistry and a diplomate of the American Board of Implant Dentistry. He is wellpublished and lectures nationally and internationally on implant dentistry and maintains a faculty practice limited to implant dentistry and prosthodontics at the Loma Linda University School of Dentistry.

## Tissue care in the maxillary anterior: Ankylos — a new paradigm

Catch Dr. DiGiallorenzo's lecture at the Dental Tribune Symposia at the Greater N.Y. Dental Meeting at 1:30–2:30 p.m. on Dec. 1.

This lecture will provide a systemic, biologic and evidence-based approach to ensure success in the class 1 to class 4 case utilizing the "Tissue Care Concept by Ankylos," PRGF, lasers and piezo surgery. Learn about:

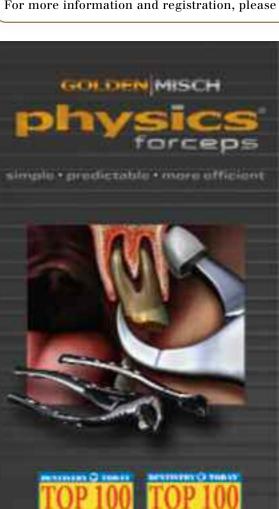
- Diagnosis of patient biotypes and its affect on treatment decisions.
- Immediate or staged?
- Surgical management: incisions, atraumatic extraction, periodontal plastics, bone grafting (PRGF), overcorrection, site preparation, and 3-D implant placement.
- Prosthetic management: abutment selection, provisionalization, restorative materials and methods.

Earn C.E. credits! Attendance is free for all GNYDM visitors!

For more information and registration, please contact Julia Wehkamp at j.wehkamp@dtamerica.com.







Take advantage of our

90 day trial period

Visit us at the

Greater New York Dental

Meeting Booth # 3431 for a

Free DVD and convention

special offers

OUR NEW AHEMOLAR INSTRUMENTS

learn more shout the physics forceps at

GOLDENMISCH COM

1 877 987 2284





Anthony S. Feck, DMD

I have reserr lawked forward to doing extractions in my practice. It can take just a few minutes or more than half an hour if I ferar that dreated cracking' sound indicating I have broken a crown or a root. Since using the Physics Forceps that sound is a thing of the part. These new hardpe don't rely on brute force, but rather, use the simple concept of leverage. Instead of grasping, pushing, tensing and pulling the clinical crown, this technique employs a slow, steady rotational force that literally rolls the tooth free from the POL. Seldom do new innovations come along that truly revolutionate the way a dentital approaches a service this is one!



Louis Malcmacher, DDS, MAGD

Faster, easier and better: these are the three magic attributes that I look for whenever I evaluate new products. The GoldenMisch Physics Forceps are by for one of the greatest advancements I have seen in excduring in my 28 year career. Using these unique instruments greatly reduces buccal bone loss staring the extraction, making emplies support and esthetic success much more predictable. The amount of time, effort and hustration seved is incredible, especially with challenging teeth. The Physics Forceps are an absolute must for every dental practice and I highly recommend them in my lectures.