Endodontic Associates announces the addition of a new associate, Dr. Pom

Endodontic Associates is proud to introduce the addition of a new associate, Dr. Pacharee Kulwattanaporn.

Dr. Kulwattanaporn or Dr. Pom, will join Dr. Richard Rubinstein and Dr. Carl Botvinick at the Farmington Hills office, and Dr. Stephen Navarre and Dr. Chad Speirs at the Roseville office.

Dr. Pom graduated from Chulalongkorn University in Bangkok, Thailand, where she received her Doctor of Dental Surgery degree in 2009 with honors. After graduation, Dr. Pom worked at Thailand’s Kohn Kaen University until 2012. During that time, she served as a faculty member with responsibilities that included lecturing and supervising dental students.

Once relocating to the United States, she completed her specialty training in Endodontics and Masters of Oral Biology at the University of Pennsylvania in 2015. Furthermore, Dr. Pom worked as a teaching resident at the University of Pennsylvania’s endodontic clinic where she supervised the proper techniques for micro-surgery of endodontic residents.

Dr. Pom is an active member in the American Association of Endodontics, American Dental Association, Michigan Association of Endodontics, Michigan Dental Association, the Macomb Dental Society and the Oakland County Dental Society.
Management of Sodium Hypochlorite Injuries

The use of irrigants during endodontic treatment is a proven way to achieve overall cleanliness and disinfection of the root canal system. Sodium hypochlorite (NaOCl), the most widely used irrigant, has a concentration ranging from 0.5% to 5.25%. It is bacteriocidal with the capacity to dissolve organic matter, dislodge debris from the root canal system and provide a degree of lubrication during root canal shaping. Despite its many advantageous properties, care must be taken when using and handling NaOCl because it is caustic to the vital tissues, and related injuries are a recognized risk.

Safety measures include wearing appropriate personal protective equipment, ensuring the use of a well-sealed rubber dam and utilizing high-volume suction. Such precautions help avoid injuries to the skin and eyes, as well as ingestion or even aspiration by the patient. There is also a risk that NaOCl might be extruded into the periradicular and soft tissues, resulting in an intense inflammatory response and extensive tissue damage. It is vitally important that all dentists and endodontists be well informed regarding the management of patients if an extrusion of NaOCl occurs.

Farook et al from Northwick Park Hospital, United Kingdom, developed guidelines to assess and manage patients with NaOCl extrusion injuries. Table 1 shows the findings from the patient examination and the associated grading of the injury.

After the injury has been properly assessed, the following treatment guidelines are recommended. For mild and moderate injuries, immediate treatment includes:

- irrigating the root canals with copious amounts of water or saline to dilute the NaOCl in the tissues
- leaving the canal open to drain
- prescribing nonsteroidal anti-inflammatory drugs or narcotic analgesics
- applying cold compresses

During the first 7 days following NaOCl injury, treatment should include applying warm compresses to stimulate local circulation. Once soft tissues have stabilized and show signs of healing, endodontic treatment should be completed, preferably with an alternate irrigant.

For severe injuries, immediate treatment includes:

- making a referral to an oral and maxillofacial surgeon
- assessing the need for intravenous steroids and antibiotics
- imaging using either magnetic resonance imaging or computed tomography

Treatment for severe injuries may also require consultation with a plastic and reconstructive surgeon.

Conclusion

The extrusion of NaOCl into the periradicular tissues during endodontic treatment is a rare occurrence. Nevertheless, an NaOCl accident is potentially serious and can lead to significant morbidity for the patient. Prior to root canal treatment, tooth assessment can identify any factors that may predispose the tooth to extrusion injuries, so adequate preventive measures can be undertaken by the practitioner.


<table>
<thead>
<tr>
<th>TABLE 1. Summary of findings from history and examination and associated grading in cases of NaOCl extrusion</th>
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<tbody>
<tr>
<td>SYMPTOM</td>
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<tr>
<td>Pain (visual pain score)</td>
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<tr>
<td>Swelling</td>
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<td>Ecchymosis</td>
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<td>Other</td>
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<td>Pathway</td>
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GD, general dentist; OMFS, oral and maxillofacial surgeon.
Internal Root Resorption

Root resorption is defined as a condition associated with either a physiologic or pathologic process resulting in loss of dentin, cementum or bone. Mittal et al from Dasmesh Institute of Research and Dental Sciences, India, recently summarized the available knowledge of internal root resorption, an anomaly resulting from the progressive destruction of intraradicular dentin and dentin tubules due to osteoclastic activities. Various etiological factors have been suggested as contributory to internal root resorption. Among them:

- traumatic injury
- iatrogenic dental injury
- pulp infection
- orthodontic treatment

Radiographs used to diagnose internal resorption reveal a round-to-oval radiolucent enlargement of the pulp space. The margins appear smooth and clearly defined. Clinically, the condition is usually asymptomatic; however, there may be a visible pink spot that represents the granulation tissue showing through the resorbed area.

Perforating internal resorption may complicate the prognosis of endodontic treatment due to a weakening of the remaining dental structure and possible periodontal involvement, but prognosis for the tooth can be influenced by the biomaterial employed in treatment. Mineral trioxide aggregate (MTA) is most commonly used because of its biocompatibility, sealing ability and potential induction of hard tissue formation, followed by root filling with a warm gutta-percha obturation technique.

Conclusion

Internal root resorption is a relatively uncommon phenomenon that starts within the root canal and destroys the surrounding dentin structure. It is easy to stop the process of internal root resorption by performing conventional endodontic treatment. Thus, early diagnosis and proper treatment should lead to a successful outcome with a favorable outlook for long-term tooth survival.


Waterford, Commerce, Clarkston Educational Seminar

Drs. Craig Duhaime, Carl Botvinick, Tiffeny Chimelak and Drew Moeller hosted an educational seminar for area dentists on Wednesday, October 7. Held at the White Lake Oaks Golf Club, 112 dentists attended the session. Dr. Michael Hoen, Director of the University of Detroit Mercy Dental School’s Graduate Endodontic Program, gave the afternoon presentation and discussed an evidence-based approach to the diagnosis, endodontic planning, and treatment of large periradicular lesions. The evening speaker was Dr. David Landwehr, Chief of Endodontics for the Meriter Hospital general practice residency program in Madison, Wisconsin. Dr. Landwehr also holds dual certification in endodontics and oral pathology. Dr. Landwehr’s presentation included clinical cases to discuss the diagnostic dilemmas and obstacles that hinder diagnostic accuracy and appropriate treatment. Between both presentations, guests enjoyed a dinner reception and the time to visit with colleagues and friends. Endodontic Associates will continue to host educational seminars for the surrounding dental communities.
CLIPS & PICS

Rochester Fall Staff Party
EA Rochester hosted over 130 staff from 30 dental offices at the Rochester Mills Brewing Company on Thursday, September 24. An annual tradition for EA Rochester, they have been hosting this event at the Rochester Mills Brewing Company for 10 years. The event continues to grow in popularity within the dental community. 25 guests won raffle prizes such as Ipads, Coach purses and gift cards.

Roseville Detroit Tigers Game
On Monday, September 21, Endodontic Associates Roseville entertained 55 guests at the Tigers vs. Chicago White Sox game at Comerica Park. The weather was perfect for fall baseball, but the Tigers lost 3 – 2. Still, attendees thoroughly enjoyed the hospitality and atmosphere of Comerica Park in addition to the opportunity to visit with colleagues and friends.

Pictured right, above, left to right:
Marie Wallace, Holly Jackson, Dr. Fitzpatrick, Dr. Pom, Dr. Speirs, Lisa Moreno and Tina Shaar

Pictured right, left to right:
Dr. Emit Patel, Dr. Nisha Patel, Dr. Chad Speirs and his wife Dr. Maureen Kuhta

Happy New Year!

Our Wish for you
Days filled with Laughter
Years of Good Health
And
A Lifetime of Peace & Prosperity

Thank You From all of us at EA

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