

JANUARY 31 - FEBRUARY 2, 2019 | BOSTON CONVENTION & EXHIBITION CENTER

ENDODONTIC SPECIALTY SYMPOSIUM

SATURDAY, FEBRUARY 2, 2019 • 8:30 AM - 12:00 PM

644SL

\$105 3 CE HOURS

Tuition includes a coffee and pastry break with an opportunity to network with peers.

Rethinking Endodontic Disinfection and Fractures in Root-Filled Teeth

Endodontic disease is known as the host-immune response to the existence of opportunistic oral bacteria as biofilms within a pulp space. The response of host-immune system to microbial biofilm is distinctly different to their planktonic counterpart. Consequently, different clinical presentations are possible when they are associated with a chronic disease. Thus microbial biofilms are considered the key therapeutic target in the treatment of endodontic disease. This lecture will cover the evolving perspectives of root canal biofilm in disease, root canal irrigation dynamics and current status of root canal irrigation strategies.

Fractures of endodontically treated teeth are not an uncommon occurrence in clinical practice. Iatrogenic and non-iatrogenic risk factors have been associated with the loss of mechanical integrity in restored root-filled teeth. This lecture will offer a biomechanical foundation to explain the causes and steps to prevent clinically relevant fractures in root-filled teeth.

The major challenge in any endodontic regenerative procedures is the inability to recondition previously infected root dentin, which in turn would support tissue engineering. This lecture will cover the challenges involved in regenerative endodontic procedures, and the fundamentals of novel nanomaterial-based strategies for biologically based endodontic therapy.

After this course attendees will be able to:

- Identify the basics of biofilm-mediated infections and their role in disease process
- Understand the challenges involved in root canal disinfection
- Define the steps to improve efficacy of root canal disinfection
- Explain the biomechanical response of endodontically treated teeth to force
- Describe the causes and role of risk factors for fractures in endodontically treated teeth
- Summarize the essentials of regenerative based endodontic procedures
- List the basics of bioactive nanoparticles
- Review the update on the application of bioactive nanoparticles for regenerative endodontics

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Dr. Anil Kishen is a professor for the endodontics program, graduate coordinator, and faculty and affiliated member of the institute of optical sciences at the University of Toronto. He is also the principal Investigator of Dental Research Institute.