



UNIVERSITY OF TORONTO
FACULTY OF DENTISTRY

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NATIONAL DENTAL INNOVATIONS

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DON'T MISS THIS IMPORTANT LECTURE!

QRcode link to registration below



February 14th, 2025
from 9am to 12pm



University of Toronto
Faculty of Dentistry

124 Edward Street, Toronto Room 504



Lunch provided by NDI
from 12pm to 1:30pm



SPEAKER

Dr Roeland De Moor

Roeland J De Moor, DDS, PhD, MSc graduated in 1984 from the Dental School, Ghent University, Belgium. He has an MSc in Paediatric Dentistry and an MSc in Endodontics and Restorative Dentistry (Ghent University, Belgium), and received the PhD degree in 1995 at the same university.

ABOUT THE LECTURE

There has been a volcanic eruption of technologies in Endodontics over the past 20 years.

The development of NiTi shaping files, the debut of biocompatible materials, the advent of CBCT for improved diagnostics.

These minimally invasive technologies promote the maximum preservation of tooth structure, but according to an old aphorism enunciated by Herbert Schilder, for the success of endodontic therapy, “what is removed” is more important than “what is introduced” into the canal system.

In this view, laser activated irrigation, and more specifically SWEEPS technology represents a breakthrough method for 3D cleaning and disinfection of the root canal system.

Er:YAG laser technology is used to activate the commonly used irrigants in endodontics (NaOCl and EDTA) and does not replace any conventional instrumentation.

The SSP technology (single super short pulse) first and the SWEEPS one (dual ultra short pulse) today are validated by a wide body of published and non-published experiments and data.

High-speed videos at 100.000 frames are shown to explain the innovative dual pulse laser emission in endodontic environment.

Scanning Electron Microscopy and CT imaging were used to evaluate the tissue dissolution, the debridement, smear layer, and endodontic filling material removal from the endodontic space.

Bacteriological studies as well as Confocal analysis were performed to assess the decontaminating effect of these techniques.

The lecture will present an overview of the scientific concepts behind the clinical application and a series of clinical cases will be discussed.

LEARNING OBJECTIVES

- The advantages of SWEEPS technology.
- Proper timing and use of NaOCl and EDTA.
- The importance of irrigation in endodontic success.
- Limitations of conventional and modern irrigation systems.
- Practical tips for safe and effective laser use in endodontics.
- Comparisons of sonic, ultrasonic, multisonic, and laser-activated irrigation.
- Understand benefits that go beyond deep disinfection. The incredible debridement capabilities of SWEEPS prior to the use of files and all the way through treatment greatly improves efficiency by quickly breaking through calcifications

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