

Rodrigo Sanches Cunha DDS MSc PhD FRCD(C)

Title: "Endodontics: talking the talk and walking the walk"

Abstract: This course includes a lecture and a Live Demonstration component to educate and train general dentists who want to become more proficient in endodontics, utilizing evidence-based techniques. This course will address a safe, efficient, predictable and successful endodontic protocol that may be immediately implemented into practice. The didactic component will explore how proper access to root canal systems can facilitate cleaning, shaping, and obturation and how proper access opening will aid in establishing straight-line access to the apical area and still preserve tooth structure. The course will provide an overview of cleaning and shaping concepts, such as glide path management and reciprocating preparation, along with the advantages of utilizing a reciprocating system. A discussion on the role of irrigants in disinfecting the root canal system, which irrigants should be used, the importance of 3D irrigation, and removal of the smear layer to allow optimal cleaning and disinfection of the main canal and lateral anatomy. Finally it will be addressed the filling the root canal system and the different techniques in order to obtain a three-dimensional filling.

Learning Objectives:

Upon completion of this course, participants should be able to:

1. Articulate the differences between rotary and reciprocating Ni-Ti instrumentation as well as the challenges and benefits of both.
2. Explain the importance of glide path and the role of unobstructed instrumentation in prevention of file fracture.
3. Identify the role of various irrigants as adjuncts for disinfection of the root canal system, and perform disinfection utilizing appropriate instruments/tools. Smear layer removal and its clinical implication.
4. Understand the importance of a 3D filling of the root canal system: State of the art, centrally condensed gutta-percha technologies.

BIOGRAPHY

Dr. Cunha completed his Undergraduate Dental Degree in 1994, which he obtained from the Pontificia Universidade Catolica de Campinas (PUCC) in Campinas, SP-Brazil. His post-graduate studies include a Specialty degree in Endodontics obtained in 1997 from the State University of Campinas (UNICAMP); in 2002, a M.Sc. degree in Clinical Dentistry (Endodontics), and in 2006, a Ph.D. degree in Dental Sciences both of which he received from Sao Leopoldo Mandic Centre for Dental Research. Dr. Cunha is an Associate Professor and Part-time Instructor at the College of Dentistry, Faculty of Health Sciences at the University of Manitoba. Dr. Cunha has been a guest speaker at more than 200 events worldwide. Regarding research, Dr. Cunha has published more than 100 papers and abstracts in several peer

reviewed journals and six book chapters. Dr. Cunha became Fellow of the Royal College of Dentists of Canada (Endodontics) in 2013 and has extensive clinical experience obtained working in Private Practice limited to Endodontics since 1995.

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