



ABSTRACTS - Årsmøde 2017

Speaker: Dr. Christos Boutsoukis

Part I: A critical view on irrigant activation methods.

Irrigation is an essential step during root canal treatment. Conventional syringe irrigation is still widely used, but several activation methods have been developed in an effort to augment debridement and disinfection of the root canal system. Among those, sonic, ultrasonic, laser and manual dynamic activation have been the topic of numerous studies over the past three decades. This lecture will present a critical appraisal of the available evidence on irrigant activation methods, highlighting both their advantages and limitations. A multidisciplinary approach will be employed, focusing not only on familiar clinically-relevant outcomes, such as removal of pulp tissue remnants, debris and microbes, but also on the underlying physical mechanisms.

Part II: An evidence-based approach to sodium hypochlorite accidents.

Inadvertent extrusion of sodium hypochlorite is an infrequent, yet alarming complication during root canal irrigation. Its management has been extensively discussed in the literature, but the cause of such accidents is still a matter of debate among clinicians. This lecture will focus on the parameters affecting irrigant extrusion, the available clinical evidence and the *in vitro* methods used to study this problem.

CV:

Dr. Christos Boutsoukis received his DDS degree in 2003 and his postgraduate certificate in Endodontics in 2006 from the University of Thessaloniki in Greece. From 2007-2010 he divided his time between the University of Thessaloniki, the Academic Centre for Dentistry Amsterdam (ACTA) and the Physics of Fluids group at the University of Twente in the Netherlands, towards completion of the PhD degree. In 2011 he became postdoctoral researcher in the Physics of Fluids group, University of Twente and in 2013 he joined ACTA, where he is currently Assistant Professor in the Division of Endodontology. He has authored or co-authored more than 25 papers in peer-reviewed journals and two book chapters and serves as a referee for several international journals. His main research interest lies in experimental and computational methods to study the fluid dynamics of root canal irrigation.

