



## 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.



**Speaker: Dr. Arnaldo Castellucci**

**Part I: Difficulties and treatment solutions around retreatments**

**Part II: How to: Removing root filling materials and posts**

**Part III: How to: Find hidden canal orifices**

**Part IV: Warm vertical obturation. Technique, Tips & Tricks**

The success of endodontic treatment is dependent on the complete elimination of the contents of the root canal system and the sealing of all the pathways that communicate between the endodontium and the periodontium.

Many reports provide evidence indicating that the major factors associated with endodontic failures is the persistence of bacterial infection in the canal space. In this situation, the retreatment becomes mandatory even in the absence of acute symptoms, since a flare up could happen in any moment, compromising the function, esthetics and even the general health of the patient.

Faced with a case requiring retreatment, it may not be clear whether it is better to seal the apex surgically with a retrograde filling or to remove the old obturating material from the root canals and repeat the cleaning, shaping, and three-dimensional obturation with a nonsurgical approach.

There is agreement in the literature that nonsurgical retreatment should be attempted initially and surgery should be used only when these traditional attempts have failed.

In recent years in Endodontics there has been a true explosion of new technologies, new instruments and new materials, which made predictable many procedures that before were considered impossible or just made by chance. The most important revolution has been the introduction of the surgical operating microscope.

With the use of the operating microscope every challenge existing in the straight portion of the root canal system, even if located in the most apical part, can be easily seen and then solved under the microscope, with magnification and coaxial illumination. The presence of a cast post it is not an indication for a surgical approach and the same is valid in case of a carbon or glass fiber post.

Magnification and coaxial illumination are essential to find hidden and missed canal orifices.

New biocompatible materials are today available to save teeth that years ago had to be extracted.

Thanks to all these revolutionary progresses, the long term success rate of root canal treatments is higher and endodontic therapy today is more predictable and even more fun!

**CV:**

Dr. Castellucci graduated in Medicine at the University of Florence in 1973 and he specialized in Dentistry at the same University in 1977. From 1978 to 1980 he attended the Continuing Education Courses on Endodontics at Boston University School of Graduate Dentistry and in 1980 he spent four months in the Endodontic Department of Prof. Herbert Schilder. Since then, he has a limited practice on Endodontics. Past President of the Italian Endodontic Society S.I.E., Past President of the International Federation of Endodontic Associations I.F.E.A., Active Member of the European Society of Endodontology E.S.E., Active Member of the American Association of Endodontists A.A.E., he has been Assistant Professor of Endodontics at the University of Siena Dental School and then at the University of Florence Dental School. Now is Assistant Professor of Endodontics at the University of Cagliari Dental School and Assistant Professor of Micro-Surgical Endodontics at the Specialty of Oral

Surgery of the University Federico II of Naples. He has been the Editor of "The Italian Journal of Endodontics" and of "The Endodontic Informer". He is the Editor in Chief of Endo Tribune, Founder and President of the "Warm Gutta-Percha Study Club" and of the Micro-Endodontic Training Center, where he teaches and gives hands-on courses. He published more than 60 articles on Endodontics in the most prestigious Endodontic Journals. International lecturer, he gave presentations and courses in 56 different countries around the world. Is the author of the text "EndodonticS", which is now available in the English language. He lives and practices in Florence where he has his private practice and his Micro-Endodontics Training Center and can be reached at 39 055 571114 or at [castellucciarnaldo@gmail.com](mailto:castellucciarnaldo@gmail.com), [www.endocastellucci.com](http://www.endocastellucci.com)

