

## **"Problem Solving in complex endodontic cases: from the access cavity preparation to the coronal seal".**

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Both Endodontists and general Dentists have to face everyday complex cases: long and curved canals, intricate canal systems, retreatments... . It becomes thus very important for the Dentists to use instruments and devices that can increase their long-term success rates reducing the risk of complications and the operating times. To successfully treat these cases Endodontists need to use the following instrument and devices:

- 1) Ultrasonic tips to finish the access cavity and remove calcifications, intracanal broken instruments and fiber or metal posts.
- 2) Dedicated instruments to safely pre-flaring the root canals obtaining at the same time a continuous and smooth glide-path .
- 3) New-generation reciprocating NiTi instrument manufactured with new alloys that show a significantly higher resistance to both torsional and fatigue stresses. With these files it will be possible, in many cases to complete the root canal shaping with a single file.
- 5) An effective irrigation protocol
- 6) An obturation system capable of giving hermetic airtight root canal filling in difficult and different clinical situations.
- 7) A restoration system that allow an effective coronal seal minimizing at the same time the usage of posts and the loss of dental tissue

Only through a balanced integration of all the above described steps it will be possible for Endodontists to face difficult cases with predictable long term results.