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Contemporary endodontics: From access cavity to shaping and cleaning, a minimal invasive concept

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Cleaning and shaping are the paradigm of success of endodontic treatment. For more than 25 years NiTi have been used to shape root canal space. Ever since companies have been trying to improve endodontic files in order to achieve a more predictable outcome of the shaping procedures and enhance the cleaning efficiency of endodontic irrigants. At the same time the knowledge of the coronal dentin structure is understood by reading their color shades throughout the operative microscope and the way to minimize the removal of the radicular dentin appears to be one of the challenges in order to preserve the initial integrity of the root canal. Operatives procedure all along the access cavity with specific micro tools allows the operator to reduce the removal of dentin even decreasing the constraints apply to the files at the entrance of the canal. Innovations focused on the designs of the files such as asymmetrical cross section and thermo-mechanical treatment of endodontic wires prior post machining of endodontic files enhanced the flexibility and the life time of these files for a better cleaning without increasing the initial canal shape. In this presentation we will describe the way to achieve Endodontics in respect of the coronal and the radicular part of the teeth, and pinpoint the wide range of clinical situation that could be addressed swiftly and safely. By the end of this presentation attendees will be able to: - Prepare the access cavity respecting the integrity of the coronal

- Shape the main entire root canal in a 3D removal of the pulp

- Clean the root canal system and their walls on a minimal invasive concept

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