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Self - adjusting file instrumentation – leading the pack

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The Self-Adjusting File (SAF) represents a paradigm-shift in modern endodontics, as the first instrument that truly addresses the basic cleaning, shaping and irrigation principles of endodontic treatment in all three dimensions. The SAF is a hollow file designed as an elastically compressible, thin-walled pointed cylinder that is composed of a nickel- titanium lattice. This motorized file is used as a single instrument to achieve complete 3D root canal cleaning and shaping in a minimally invasive way. Its hollow shape allows for the continuous flow of irrigant through its lumen to achieve superior disinfection. The SAF's mode of operation eliminates many of the risks and drawbacks attributed to rotary NiTi files, leading to better and safer treatment. The SAF is supported by dozens of research papers published in the leading endodontic journals, representing its superiority over rotary files and turning it into a true evidence-based endodontic concept. The presentation is based on compilation of researches carried out by me and my eminent co researchers on categories like Centering Ability in Oval Canals, Apical Extrusion of Debris during root canal instrumentation and retreatment, Fracture Strength of teeth after instrumentation and formation of micro-cracks, Push-Out Bond strength of the root canal filling after instrumentation with SAF.

Biography

Ajinkya M Pawar is a dedicated researcher and enthusiastic adopter of new technologies. He has decided to dedicate his work life to broaden and expand his knowledge for Endodontics. In his young age he has already published 20 scientific studies in both National and International Journals indexed in PubMed, and a few more in press and under preparation, together with high ranked international researchers. He is passionate about learning new developments in Endodontics and he has travelled around the world pursuing this passion. He has completed his B.D.S from Padmashree Dr. D. Y. Patil Deemed University, Nerul, Navi-Mumbai Maharashtra INDIA and M.D.S was completed from Maharashtra University of Health Sciences, Nashik Maharashtra INDIA. He is currently working as an Assistant Professor (Lecturer) at the D Y Patil Dental School, Lohegaon, Pune, Maharashtra INDIA.

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