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Failure modes and prevention of NiTi rotary instruments

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For 15 years, NiTi rotary instruments become an essential part of endodontics. Fractured instruments interferes the goals of endodontic therapy. Instrument fracture may adversely affect the success rate of endodontic treatment. Many researches has been undertaken to understand the mechanisms of failure of NiTi instruments to minimize its occurrence. Factors related to clinician experience, technique and competence have been shown to be influential. From an assessment of the literature presented and clinical cases, clinical recommendations are derived concerning prevention and management of this complication. The purpose of this presentation is to present points that clinical operators can take to reduce the risk of NiTi rotary instrument failure and prevent fracture during root canal preparation.

Biography

Fouad Abduljabbar is a Consultant Endodontist, Director of Dental Supplies and Materials & Equipment of Endodontics Department. He is the Member of Dental Supplies & Materials & Equipment Committee and Clinical Supervisor of Saudi Board Dental Student and Dental Interns, Dental services, West Region, King Abdulaziz Medical City, The Ministry of National Guard, Saudi Arabia. He has completed his Master of Dental Surgery and Clinical Certificate in Endodontics from The University of Hong Kong, 2009 and Bachelor of Dental Medicine and surgery from King Abdulaziz University, 2003. He has also published more than five papers in reputed journals and presented number of dental lectures as well as dental courses in and out of Saudi Arabia.

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