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Retrieval and bypass a fractured instrument: Two case reports

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Background: A fragment of an instrument, which was separated during the mechanical cleaning and shaping of the root canal system, significantly hinders the proper endodontic treatment and may lead to its failure.

Case Presentation: Case I: A 32-year-old healthy female Saudi patient presented at General Dentistry Clinics at College of Dentistry, Najran University, with irreversible pulpitis of the lower left second molar. It was decided to perform root canal treatment and then to do a reconstruction reinforced by crown. During the cleaning and shaping procedures for coronal shaping, a ProTaper nickel-titanium files separated in the mesiolingual canal of the tooth tightly filled nearly 80% of the total length of the canal. The fractured instrument was retrieved. Case II: An 18-year old healthy female Saudi patient reported to the Department of Conservative Dentistry & Endodontic, College of Dentistry, Najran University, with pain in her right maxillary first molar. On examination, a carious exposure was found. Radiograph of the tooth showed a severely curved distobuccal root. During the cleaning and shaping procedures for distobuccal with K3™ nickel-titanium files separated in mid-root with 4 mm of file. The fractured instrument was bypass.

Conclusion: Choosing the right method is a key step in the complication described above. The management technique should entail the least risk of iatrogenic complications because they can greatly affect the long-term maintenance of the tooth.

Biography

Hussien A Alattas is a Vice Dean, Professor and Head of Dental Restorative, College of Dentistry, Najran University, Saudi Arabia.. He has published several papers in reputed international journals. Participate as a speaker in several international dental conferences.

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