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Effects of different Position of Curvature (PC) on removal of separated instrument from severely curved root canals

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Teeth with same angle of curvature can have different Position of Cuvature (PC). With this we come to know that beside the shape and angle of a root canal , there is another contributing factors which influence in the removal of separated instrument is Position of Curvature (PC). PC value lower than 0.5 represented curvatures that were concentrated in the cervical third; PC value ranging from ≥0.5 to < 2.0 represented curvatures concentrated in the middle third; and, PC value above 2.0 represented curvatures in the apical third . Using this method on the radiograph of the extracted teeth, PC was noted more on the middle and apical third. PC at cervical third was discarded because fracture made at this position can be easily removed. So the fracture of file was made at the apical third of selected root canal. Fracture file from root canal was attempted to remove using dental operating microscope and ultrasonic tips. Furthermore using CBCT comparative 3D volumetric analysis was done using mimics software. The aim of this study was to evaluate the removal of separated file from different Position of Curvature (PC) and angle of curvature ranging from ≥30°-≤45° within the time limit 30 minutes ,and also determine the comparative 3D volumetric analysis of root canal using CBCT. It also further aimed to help the clinician & endodontists to perform a benefit/risk analysis before removal of a separated instrument in a root canal with different PCvalues.

Biography

Iru Prajapati (Endododntist) from Nepal, had completed her MDS on 2016 from Xi'an Jiaotong University, Xi'an, China and BDS from Manipal University. She is working as endodontist in Oracare Periodontal Clinic, Kathmandu. Her publication article as second author in JNDA of Nepal.

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