

Free pdf The standardized taper root canal preparation part 1 (PDF)

aim to introduce the concept of variable taper instruments for predictable and ergonomic root canal preparation and demonstrate the design features of greater taper files summary optimal root canal shaping is difficult to practice and teach with traditional instruments key learning points the standard gt file set comprises three instruments of 0 06 0 08 and 0 10 taper all are size 20 at the tip and have a maximum diameter of 1 mm accessory gt files have a standard taper 0 12 and maximum diameter of 1 5 mm they are available in tip sizes 35 50 and 70 summary large root canals with small apical diameters can usually be prepared with one to three gt files one to nine clinical steps and one to five minutes of clinical time following proper access pulp tissue should be removed and lubricant applied to prevent pulp compaction and blockage to introduce the concept of variable taper instruments for predictable and ergonomic root canal preparation and demonstrate the design features of greater taper files variable taper files are designed to offer the optimal preparation features of adequate not excessive coronal enlargement full deep shape and apical resistance form in a simple instrument sequence the standardized taper root canal preparation part 1 concepts for variably tapered shaping instruments factors associated with endodontic interappointment emergencies of teeth with necrotic pulps tred apical preparations offer optimal resistance form for obturation and can be prepared in most roots with wide apices by extending gt files and gt accessory files to or through the apex summary large root canals with small apical diameters can usually be prepared with one to three gt files one to nine clinical steps and one to five minutes of clinical time following proper access pulp tissue should be removed and lubricant applied to prevent pulp compaction and blockage key learning points small root canals should be prepared to a shaping objective 0 08 or 0 06 taper pulp tissue should be removed before preparation to prevent compaction and blockage key learning points the standard gt file set comprises three instruments of 0 06 0 08 and 0 10 taper all are size 20 at the tip and have a maximum diameter of 1 mm accessory gt files have a standard taper 0 12 and maximum diameter of 1 5 mm they are available in tip sizes 35 50 and 70 small root canals should be prepared to a shaping objective 0 08 or 0 06 taper pulp tissue should be removed before preparation to prevent compaction and blockage preparation follows in a crown down sequence and may occasionally require the use of small profiles aim to introduce the concept of variable taper instruments for predictable and ergonomic root canal preparation and demonstrate the design features of greater taper files summary optimal root canal shaping is difficult to practice and teach with traditional instruments taproot the two types of root systems in plants the fibrous root system a is characterized by many roots with similar sizes in contrast plants that use the taproot system b grow a main root with smaller roots branching off the letters indicate where the root systems begin key learning points large root canals with small apical diameters should be prepared to shaping objectives 0 08 or 0 10 taper compacted pulp tissue causes many canal blockages it should be removed early and canals should be well lubricated the most effective way to reduce the possibility of root injury and disease is to keep the tree healthy and vigorous a healthy root environment consists of adequate growing space for the root system well conditioned soil 16 inches to 24 inches deep and sufficient water and oxygen the canal should first be flared short of the obstruction before shaping the canal after it with regular pre bent k files pre bent gt hand files can then be used with care to blend the apical and more coronal regions for final shape dicotyledonous plants possess a primary root called the tap root with lateral secondary roots branching out from it and sometimes additional tertiary roots branching from the secondary roots this can form in some cases a very extensive root system fig 1 1 the standardized taper root canal preparation part 1 concepts for variably tapered shaping instruments dent today 1998 may 17 5 54 60 large root canals with small apical diameters should be prepared in crown down sequence with recapitulation of steps until the shaping objective is achieved and should be exposed to sodium hypochlorite for at least 30 min for effective cleaning taproot the main root of a primary root system growing vertically downward most dicotyledonous plants produce taproots some of which are specialized for food storage in other plants the initial taproot of the seedling is replaced by a fibrous or diffuse root system

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