
Apical Extrusion Using Hand Rotary Systems

apical extrusion of debris and irrigants using different ... - ra dent 27(2) 2016 193 apical extrusion using different needles prior to root canal preparation, each tooth was radiographed with a #15k-file inside the canal to determine **apical extrusion of debris and irrigants: an unavoidable ...** - apical extrusion of debris and irrigants : ... extrusion of debris than hand- instrumentation so it should be elected as the method of choice for the infected root canals. the amount of extrusion of debris and irrigants is under the control of the operator upto some extent whereas the microorganisms which are extruded is a factor which is very difficult to control. if virulent clonal types of ... **original research article apical extrusion of debris in ...** - from inception until february 2016 using the key terms "apical debris extrusion, extruded material, and manual/rotary/ reciprocating/saf systems." a systematic search strategy was followed to extract 12 potential articles from a total of 1352 **evaluation of conventional, protaper hand and protaper ...** - j clin exp dent. 2017;9(2):e254-8. endodontic instrumentation and apical extrusion e255 introduction root canal treatment aims at thorough debridement and **the influence of instrument application frequency on the ...** - techniques on amount of apical extrusion of debris among tested groups. conclusion: the hand protaper extruded smaller amounts of apical debris than the rotary protaper and larger amounts than hybrid technique. **comparative analysis of extrusion of debris and irrigants ...** - jain v extrusion of debris from apical foramen issn-2455-5592 international journal of community health and medical research vol.3 issue 2 2017 comparative analysis of extrusion of debris and irrigants from the apical foramen using hand and rotary systems vaibhav jain reader , department of conservative and endodontics, chhattisgarh dental college and research institute, chhattisgarh abstract ... **apical extrusion of debris after hand, engine-driven ...** - 290 rev. odonto ciênc. 2010;25(3):288-291 apical extrusion of debris greater taper were used. before each instrument change, the initial instrument was used again to remove obstructions or **evaluation of apical extrusion of debris and irrigant ...** - apical extrusion of debris and irrigants during cleaning and shaping of the root canal is one of the main causes of peri-apical inflammation and postoperative flare-ups. objectives: the purpose of this study was to quantitatively measure the amount of debris and irrigants extruded apically using rotary **apical extrusion of debris and irrigant using novel ...** - apical extrusion of debris and irrigant using novel preparation systems the journal of contemporary dental practice, july-august 2014;15(4):423-427 423 jcdp abstract aim: the aim of this in vitro study was to assess the amount of apically extruded debris and irrigant using reciproc vs self-adjusting file (saf) and to investigate the effect, if any, of gravitational force via mandibular and ... **assessment of apical extrusion of debris during endodontic ...** - conclusion: rotary retreatment files caused less apical extrusion of debris and needed less time for the completion of the retreatment procedure compared to hand files. **comparative study of apically extruded debris and irrigant ...** - key words: apical extrusion, k3 nickel-titanium instruments, race nickel-titanium instruments, rotary endodontic systems introduction apical extrusion of debris and irrigant during cleaning and shaping of the root canal is one of the common problems encountered by an endodontist. several studies have shown that dentin fillings, necrotic tissue, pulp remains, microorganisms and irrigating ... **quantitative evaluation of apical extrusion of debris and ...** - quantitative evaluation of apical extrusion of debris and irrigants using four rotary instrumentation systems: an in vitro study ... is totally effective in preventing debris extrusion. on other hand, it can be argued that greater the debris more severe could be the reaction.3,14 there are few studies which compared 0.04 and 0.06 taper nickel titanium instruments with conventional hand ... **mdj evaluation of apically extruded debris by using hand ...** - this study evaluated the amount of apical debris, using hand, rotary protaper instruments, and rotary profile instruments. forty five of mandibular premolars with **comparison of the amount of apically extruded debris ...** - lower compared to hand instruments and ni-ti instruments using a reciprocating motion in teeth with open apices. keywords: apical extrusion, protaper, reciproc, retreatment, teeth with immature apices. **comparison of the amount of apical extrusion of bacteria ...** - objectives : the objective of this study is to compare the amount of extrusion of bacteria beyond the apical foramen after instrumentation with crown down and step-back techniques using a manual and engine driven nickel-titanium instruments

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