

·临床报道·

镍钛器械联合应用于磨牙弯曲根管预备的临床效果

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【摘要】目的 比较 ProTaper 联合镍钛 K 锉、S3 锉、ProTaper 锉 3 组镍钛器械在预备磨牙重度弯曲根管中的临床效果。**方法** 选取重度弯曲根管的磨牙 150 颗, 随机分为 3 组 ($n=50$ 个), 分别使用 ProTaper 联合镍钛 K 锉 (A 组)、S3 锉 (B 组)、ProTaper 锉 (C 组) 预备根管, 侧压法充填根管, 比较 3 组器械的根管成形效果、器械分离情况、术后疼痛反应情况。**结果** 3 组器械预备根管后成形效果良好率分别为 82.0%、86.0%、62.0%, A、B 组两组器械的根管成形效果均优于 C 组, 差异有统计学意义 ($P<0.05$)。B 组的器械分离数最少, B 组与 C 组差异有统计学意义 ($P<0.05$)。3 组的术后疼痛反应发生率为分别 6.0%、4.0% 和 4.0%, 差异无统计学意义 ($P>0.05$)。**结论** 在磨牙重度弯曲根管中, ProTaper 联合镍钛 K 锉和 S3 锉均有良好的临床效果。

【关键词】 镍钛器械 弯曲根管 根管预备 磨牙

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Clinical effect of combined different NiTi instruments on preparing curved root canals of molars

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【Abstract】Objective To compare the clinical effect of ProTaper combined with NiTi K files, S3 and ProTaper on preparing severely curved root canals of molars. **Methods** One hundred and fifty teeth with severe curvature were selected and randomly divided into three groups with fifty canals each. Teeth root canals were prepared by ProTaper combined with NiTi K files (group A), S3(group B) and ProTaper (group C) respectively. All canals were obturated by using lateral condensation method. The efficiency of preparation, the incidence of instrument separation and post-operative pain were recorded. **Results** The rate of root canal shaping for the three groups were 82.0%, 86.0%, 62.0%, Group A and group B had better root canal shaping effects than group C, statistically significant differences was found between group A or B and group C ($P<0.05$). Group B had less incidence of instrument separation, there was statistically significant differences between group B and group C ($P<0.05$). The incidence rate of post-operative pain for the three groups were 6.0%, 4.0%, 4.0%, there was no statistically significant differences among the three groups ($P>0.05$). **Conclusion** ProTaper combined with NiTi K files and S3 performed good clinical effects in canals with severe curvature.

【Keywords】 NiTi instruments Curved canals Root canal preparation Molars