

· 基础与临床研究 ·

不同疏通锉对 XP-Endo Shaper 镍钛系统预备磨牙弯曲根管效果的影响

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【摘要】目的 比较不同根管疏通锉对 XP-Endo Shaper(XPS)镍钛系统预备磨牙弯曲根管效果的影响。**方法** 收集上颌第一和第二恒磨牙共 45 颗, 取近中或远中颊根管, 随机分 3 组。实验组为 M3-Path+XPS 组(M 组)和 PathFile+XPS 组(P 组), 对照组为 K 锉+XPS 组(K 组), 分别以机用镍钛器械 M3-Path、PathFile 和 K 锉进行根管疏通, 最后用 XPS 镍钛系统以标准技术法预备至 #30/04。记录 3 组的根管预备时间、预备锉的形变情况、根管偏移量和根尖碎屑推出量。**结果** ① K 组的根管预备时间最长平均为 87.40 s, M 组时间最短平均为 68.33 s, 组间比较差异无统计学意义。② K 组 XPS 锉的形变数量最多(2 支), M 组和 P 组最少(1 支), 组间无统计学差异。③ M 组和 P 组分别在距离根尖 2 mm(分别为 0.04 mm 和 0.05 mm)和 4 mm(两组皆为 0.08 mm)处近远中向根管偏移量小于 K 组(在 2 mm 和 4 mm 处分别为 0.11 mm 和 0.14 mm), K 组与其余 2 组比较差异皆有统计学意义。④ K 组根尖碎屑推出量最多(0.53 mg), M 组最少(0.19 mg)。K 组与其余 2 组比较差异有统计学意义。**结论** 使用 M3-Path 或 PathFile 镍钛器械进行根管疏通, 既可以减少 XPS 镍钛锉的形变, 又可以有效减少根尖偏移量和根尖碎屑推出量。

【关键词】 XP-Endo Shaper 镍钛系统 磨牙弯曲根管 根管疏通 根管预备

DOI: 10.11752/j.kqcl.2023.02.02

Effects of different glide path files on XP-Endo Shaper Nickel-Titanium system in curved molar root canals

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【Abstract】Objective The study aimed to compare the effects of several glide path techniques on XP-Endo Shaper shaping outcomes in curved molar canals. **Methods** Mesio buccal or disto buccal canals of 45 extracted human maxillary molars were randomly divided into 3 groups (K-file+XPS group, M3-Path group and PathFile group) with 15 canals each. Glide path preparations were performed using stainless steel manual K-files, M3-Path and Pathfile. Final canal preparation of all 45 canals was performed with XP-Endo Shaper #30/04. All data including time required in glide path and shaping preparation, deformation of XP-Endo Shaper, canal transportation and apical debris extrusion were recorded. **Results** ① K group exhibited the longest average preparation time of