

عنوان مقاله:

Comparison of transportation and centering ability using RECIPROC and iRace: A cone-beam computed tomography study

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خلاصه مقاله:

BACKGROUND AND AIM: Root canal treatment, especially in curved and constricted root canals, can be very difficult and time consuming. Several investigations have compared the reciprocating and full sequence motions in terms of shaping ability. The purpose of the present study was to compare the root canal transportation and centering ability of RECIPROC and iRace using cone-beam computed tomography (CBCT). **METHODS:** Thirty-two mesiobuccal (MB) root canals of maxillary first molars with curvature ranged ۲۵-۴۰ degrees were selected. Pre-instrumentation CBCT images were captured at ۲, ۴ and ۶ mm distances from the root apex. Thirty samples were randomly divided into two groups (n = ۱۵). After root canal preparation using either iRace or RECIPROC #۲۵, post-instrumentation CBCT images were obtained at the same levels. Two specimens served as control group. Pre- and post-CBCT images were evaluated to measure root canal transportation and centering ability. Mann-Whitney and Friedman tests were used for statistical analysis. **RESULTS:** There was no significant difference between the groups ($P > ۰.۰۵$). **CONCLUSION:** iRace and RECIPROC maintained original root canal geometry and may be safe to be used in curved root canals.

کلمات کلیدی:

Cone-beam computed Tomography, Root Canal Preparation, Transportation

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