

Flare-up rate in molars with periapical radiolucency in one visit versus two visit endodontic treatment

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ABSTRACT

Objectives: The objective of this study was to compare post obturation flare-ups following single and two visits endodontic treatment of molar teeth with periapical radiolucency. **Methods:** A total of 100 patients with asymptomatic molar teeth with periapical radiolucency were selected. They were randomly allocated into two groups. Fifty patients received complete endodontic treatment in one visit. Fifty patients received treatment by debridement and instrumentation at the first visit followed by obturation at the second visit. Canal preparation was done by step back technique using k-files and 2.5% sodium hypochlorite as irrigant. Obturation was done by cold lateral condensation of gutta percha. **Results:** 10% of patients had flare up in the single visit group and 8% of patients had flare up in the two visit group. Number of visits did not affect the success of endodontic treatment ($p > 0.05$). Age, gender and tooth type had no effects on the occurrence of flare ups regardless the number of visits ($p > 0.05$). **Conclusions:** One visit endodontic treatment was as successful as two visits endodontic treatment as evaluated by rate of flare-up in asymptomatic molar teeth with periapical radiolucency.

Key Words: Chronic periapical periodontitis, Endodontic flare-up, Necrotic teeth, Root canal treatment.