

Signs of Healing Visualized within 6 Months: A Single-Visit Endodontic Treatment

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HISTORY

A thirty-two year old male presented with a severe spontaneous and throbbing pain on the lower right side of the oral cavity. The patient also reported a history of localized swelling. The patient's medical history was non-contributory.

DIAGNOSIS

Clinical examination revealed that the mandibular right first molar (#30) had a large carious lesion on the disto-occlusal surface. Localized fluctuant swelling was observed on the buccal aspects of the tooth. Periapical lesions were seen in both the mesial and distal roots as shown in Figure 1. Based on the clinical and radiographic findings, endodontic treatment was recommended.

TREATMENT

The tooth was prepared for endodontic treatment, accessed conservatively, and the canals were instrumented to #20/.07. The GentleWave® System was used to clean the root canal system. Obturation was performed using warm vertical compaction technique. The subject's tooth is shown in Figure 2 after the GentleWave treatment and obturation.



Figure 1. Before GentleWave® RCT



Figure 2. After GentleWave® RCT

OUTCOME

At 3 months and 6 months, the tooth was asymptomatic. Radiographically, as shown in Figure 3 and Figure 4, a marked reduction in the size of the periradicular lesion around both the mesial and distal roots was observed. Figure 5 shows the progression of healing at 24 months.



Figure 3. Three months post GentleWave® RCT



Figure 4. Six months post GentleWave® RCT



Figure 5. Twenty-four months post GentleWave® RCT



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