

The Treatment of Vital Teeth Affected by Endo-Periopathology with Intra-Bony Defects involving the Apex: A Literature Review

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Abstract

The aim of this article is to investigate scientific literature with cases of vital teeth with radiographically visible intra-bony defects involving the apex and to evaluate current treatment options. This was a literature review of MEDLINE and Cochrane with no time restrictions. Two reviewers performed the data extraction independently using data collection forms. Four clinical case-control studies were found eligible and were included in the literature review. There are three possible treatment options according to the analyzed studies: periodontal treatment after root canal treatment; periodontal treatment only; and extraction and tooth replacement with implant, tooth-supported bridges, or Maryland bridges. The outcomes in all published cases showed a significant improvement in the most parameters regardless of the chosen treatment method. The absence of an accurate method to define pulp vitality complicates treatment selection. Further clinical studies are required to investigate treatment options for vital teeth affected by endo-perio pathology with intrabony defects involving the apex.