



Contemporary Endodontic Approaches for Children

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The endodontic management of teeth with immature apices is a problem due to the various difficulties that may occur during the treatment. There are several procedures used to treat a tooth with an immature apex: indirect pulp capping, direct pulp capping, partial pulpotomy, full pulpotomy, apexification, apical plug, etc. Currently, the research focuses on regenerative endodontic procedures, defined as biological procedures designed to replace damaged structures, including dentin, root structures, and cells of pulp–dental complexity. Revascularization is a new therapeutic approach that could replace apexification. Moreover, it promotes the revascularization of immature permanent teeth with infected necrotic pulp and apical periodontitis or abscesses. Consequently, thickening of the root canal walls and continued root formation were found radiographically in immature permanent teeth with apical periodontitis undergoing revascularization. The regenerative approach has some important advantages compared to other procedures: complete root development leads to greater resistance of the element to fracture and a longer survival time in the oral cavity.

