

Poster presenter:

Mehrfam Khoshkhounejad

Assistant Professor at Department of Endodontics, Dental Faculty of Tehran University of Medical Sciences

Factors influencing the outcome of regenerative endodontic procedures

Introduction:

The purpose of this poster presentation is to introduce some of the factors that may have an effect on the clinical outcomes of regenerative endodontic procedures and discuss the probable role and extent of their impact.

Materials and methods:

Suitable articles were selected through a search for keywords: “regenerative endodontic procedures”, “endodontic regeneration” and “outcome” in data bases, PubMed, Web of science and Scopus. Contents related to the clinical aspects of endodontic regeneration and prognostic factors were taken into consideration.

Results:

Endodontic regenerative procedures are expected to achieve primary and secondary outcomes. Favorable outcomes include resolution of apical periodontitis, continued root development and reestablishment of vitality responses. The degree of root formation, time of intervention, state of apical structure and root canal disinfection are some of the factors that may affect the outcome of regenerative endodontic procedures. Crown discoloration must also be mentioned as an unwanted outcome of endodontic regenerative procedures which could be affected by intracanal medication and the material of choice as a coronal barrier.

Conclusion:

Many influencing factors, the role of which is still not completely known in the outcome of regenerative endodontic procedures have been listed. There is still a long way from currently achieved “guided endodontic repair” towards the true pulp regeneration through manipulating the diverse factors that may affect the prognosis of these biologically based treatments.

Keywords: “regenerative endodontic procedures”, “endodontic regeneration”, “outcome”