

# 19<sup>th</sup> American Dental Congress

December 08-10, 2016 Phoenix, USA

## Histopathological evaluation of response of primary teeth pulp after direct pulp capping with bioactive glass and mineral trioxide aggregate

**Roza Haghgoo**  
Shahed University, Iran

**Background:** Direct pulp capping is a conservative vital pulp therapy which has some limitations in primary dentition.

**Aim:** The aim of this study was to evaluate pulpal response of primary teeth after direct pulp capping with two biocompatible materials, MTA and BAG.

**Materials & Methods:** A total teeth of 22 healthy primary canines which were to be extracted for orthodontic reasons, were selected. The teeth were divided into two groups, each with 11 teeth and were treated with direct pulp capping. Then, the exposure sites were randomly capped with MTA or BAG in the two groups. After two months, the teeth were extracted and prepared for histo-pathologic evaluation. Data was analyzed by Fisher's exact test.

**Results:** In the BAG group, inflammation was seen in three cases and internal resorption and abscesses were not seen in any of the cases. In the MTA group, inflammation was seen in three cases and internal resorption and abscesses were not seen in any of the cases. Dentin bridge formation was seen in one sample in the BAG group.

**Conclusion:** Based on the results of this study, MTA and BAG can be used for direct pulp capping in primary teeth.

### Biography

Roza Haghgoo has completed her Post-graduation from Dental School, Shahid Beheshti University of Medical Sciences in Tehran, Iran. Currently, she is a Professor, Head of Research Center and Head of EDO of Dental School, Shahed University, Iran. She has published more than 60 papers in reputed journals and has been serving as an Editorial Board Member of reputed.

[haghgoodent@yahoo.com](mailto:haghgoodent@yahoo.com)

### Notes: