## Clinical assessment of mineral trioxide aggregate as direct pulp capping in young permanent teeth

Dr. Najat Farsi, BDS, Ms, Associate Professor\* Prof. Najlaa Alamoudi, BDS, MSc, D.Sc, Professor\* Dr. Khalid Balto, BDS, DMSc, Assistant Professor\*\* Dr. AbdullahAl Mushayt, BDS, MSc, PhD, Assistant Professor\*

Department of Preventive Dental Sciences \* Department of Conservative Dental Sciences \*\* Faculty of Dentistry King Abdulaziz University P.O. Box 80209, Jeddah 21089, Saudi Arabia PHONE: (966-2) 640 3443 ext. 22136 Fax: (966-2) 640 4048 Correspond with Dr. Farsi at N\_Far si@yahoo.com

## Abstract

Carious pulp exposure in permanent molars of children is a common incident. Mineral trioxide aggregate is a new material that possesses numerous exciting possibilities for pulp therapy. **Aim:** The purpose of this study was to evaluate the efficiency of MTA as a direct pulp capping agent in young permanent .teeth. **Methods:** Thirty asymptomatic permanent molars with pulp exposure were treated by pulp capping using MTA. At each recall (6, 12, 18 and 24 months), the teeth were assessed clinically, through pulpal sensitivity tests, as well as radiographically to evaluate periapical healing. **Results:** Non of the cases reported spontaneous pain at the 6 months follow up and the pulp showed signs of vitality and absence of periapical radiolucency. At 24 months, the clinical and radiographic success rate was 93% with evidence of continued root growth. **Conclusion:** Pulp capping with MTA is recommended for teeth with carious pulp exposure especially immature teeth that possess high potential for healing.