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Clinical and radiographic evaluation of two newly pulp medicaments used in primary molars pulpotomy

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Aim: The aim of this study is to evaluate clinically and radiographically the effect of (biodentine and mineral trioxide aggregate) as pulpotomy medicament agents versus formocresol in primary molars.

Design: 60 carious primary molars, followed pulpotomy indications, for 17 children were used in this study. The teeth were divided into three groups: Group I (control group) 30 molar treated with Formocresol, Group II (experimental group) 15 molar treated by Biodentine and Group III (experimental group) 15 molar treated by MTA. Patients preparation, local anesthetic (LA) isolation by rubber dam was done then the whole caries was removed, all the undermined enamel was removed, the whole coronal pulp was amputated by sharp spoon excavator, initial stabilized clot was established, then the various pulp medicaments were applied over the pulp stump, so the pulp was treated by group I (Formocresol), group II (Biodentine), group III (MTA). Final restoration was performed with composite. Then, both clinical and radiographic evaluation was done for all teeth at 3, 6 and 9 months according to Coll and Sadrian criteria. The data were analyzed to obtain descriptive statistics and analytical statistics to test the significance of difference between groups.

Results: The results of this study showed that there was no significant difference between Biodentine and MTA in the three periods of follow up (P>0.05). On the other hand, there was a statistically significant difference between biodentine and its control group (P<0.05) and between MTA group and its control group (P<0.05).

Conclusion: Both MTA and Biodentine can be considered as a great substitute to Formocresol as pulp medicaments after pulpotomy.

Biography

Mahmoud Mohamed Badran has completed his BSc from the Faculty of Dentistry, Mansoura University, Egypt. Currently, he is a Clinical Demonstrator of Pediatric Dentistry at Mansoura University, Egypt.

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