



## Bioceramics as an innovative savior for perforation repair

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### Abstract:

**Purpose:** To compare the effect of two bioactive bio-ceramic materials on the repair of furcation perforation.

**Materials and Methods:** Ninety-six teeth in six dogs were divided into two main groups according to the time of repair; immediate and delayed (one month). Each group was divided into three subgroups according to the evaluation period; one, two and three months. Each subgroup was further divided into two subgroups according to the material used; Biodentine and MTA. Each subgroup was evaluated radiographically to assess bone change percentage, histologically to assess the inflammatory cell count and immuno histo chemically to assess the hard tissue formation. Data were analyzed using ANOVA and Tukey's test.

**Results:** The evidence of new hard tissue was noticed with no significant difference between Biodentine and MTA ( $P= 0.523$ ), both found with highest deposition of hard tissue. Time of repair and the evaluation period showed statistical significant effect on the bone change percentage, the inflammatory cell count and the hard tissue formation.

**Conclusion:** Furcation perforation has poorer prognosis if the perforation site is not immediately repaired. New



hard tissue prevalence increased throughout the evaluation periods. Both tested materials; Biodentine and MTA promote hard tissue formation.

### Biography:

Mahmoud Badr has completed his Masters degree and PhD from Ain Shams University, Egypt. He is the Director of basic and advanced endodontic courses in Arab Society for continuous dental education in Egypt. Also, the Clinical supervisor of Endodontics, Restorative master program of Dundee University in Egypt. He is the Director of "The KnowHow in Endodontics" course that is held 3 times per year for one month and sponsored by Dentsply. He is the Owner of The Dental Lounge, prestigious dental center, Cairo, Egypt.

Webinar on Dental Health | July 17, 2020 | London, UK

**Citation:** Mahmoud Badr; Bioceramics as an innovative savior for perforation repair; Dental Health 2020; August 31, 2020; London, UK