Effect of a Bioactive Material on Streptococcus Mutans Activity in Dentin

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Abstract

The aim of this study was conducted to evaluate between the effect of Biodentine and
Glass ionomer restorative materials; on Streptococcus mutans activity.
Methods:
32 specimens were prepared and equally divided into four main groups (n=8) representing the four tested restorative materials (KetacGFil Plus, ChemFilG Rock,
PhotacGFil QuickG and BiodentineÈ). Streptococcus mutans activity testing was carried
out by the Kirby-Bauer disc diffusion method according to CLSI recommendations 2014.
Results:
Showed that; Erythromycin with ketac fil restorative material showed the highest effect on streptococcus mutans activity, while the clindamycin with biodetine
showed; the lowest effect.
Conclusions:
The restorative material and antibiotic type and their interaction had a significant effect on streptococcus mutans activity.

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