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Comparative evaluation of the action of permanent luting cement when incorporated with an anti-microbial agent on the sub gingival dental microflora: A split mouth randomised controlled trial

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Abstract

Background: This study evaluated the antimicrobial activity of glass ionomer cement with adjunctive 0.12% chlorhexidine gluconate on the subgingival microbiota in fixed partial dentures.

Materials and methods: Forty teeth were prepared as fixed partial denture abutments in 20 patients and were cemented randomly using glass ionomer cement (control group) or glass ionomer cement, including 0.12% chlorhexidine gluconate (test group). A total of 160 subgingival plaque samples were analyzed at baseline and 8 weeks later.

Results: In the control group, the subgingival microbiota altered to closely resemble the flora of chronic gingivitis (increased proportions of gram-negative anaerobes such as Prevotella intermedia, Fusobacterium nucleatum) by 8 weeks. In contrast, the microflora at test sites comprised predominantly gram-positive facultative cocci and rods at 8 weeks.

Keywords: Antimicrobial Action, Ionomer Cement, Chlorhexidine Gluconate, Plaque Accumulation.

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