



Effect of two cleansing agents on color stability of two thermoplastic denture base materials

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Abstract

Aim: Some patients experience adverse reactions to acrylic resin (PMMA) denture base material. Polyamide (PA) as an alternative to PMMA has however not been well documented regarding color stability. The aim of this in vitro study was to evaluate the effect of two different cleansing agents (Corega and Fitty Dent), on color stability of two thermoplastic denture base materials (Vertex Thermosens and Breflex).

Materials and methods: A total of 60 samples were fabricated from two different thermoplastic denture base materials (Vertex Thermosens and Breflex). The samples were divided into 3 groups. Each group was including twenty samples, ten samples each for Vertex Thermosens and 10 from Breflex denture base materials. Samples of Group I were subjected to the distilled water as a control group. While samples of Group II were subjected to the Corega as a cleansing agent and samples of Group III were subjected to Fitty Dent as the other cleansing agent. Effect of the two cleansing agents on the two-different thermoplastic denture base materials were evaluated and compared with regards to color stability.

Results: Regarding (Vertex Thermosens and Breflex) both materials were relatively color stable in the two cleansing agents, “Corega had less effect on color change than Fitty Dent”.

Conclusion: Corega and Fitty Dent cleansing agents could be used safely for disinfecting denture base materials (Vertex Thermosens and Breflex) as they had non-significant effect on color stability.

Biography

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