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Effect of food stimulating agents on denture base resins based on its flexural strength

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ABSTRACT:

To investigate the influence of food stimulating agents on denture base resins based on its flexural strength. Fifty rectangular specimens (60x12x3mm) were fabricated in heat cure denture base resins (ACRYPOL) through compression moulding technique. The specimens were divided into five groups (n=10) to undergo conditioning for 7 day in the following food stimulating agents such as distilled water, 20% ethanol, 40% ethanol, 50% ethanol and 0.02 N citric acid at room temperature. For each test, 10 specimens of each group were considered for baseline measurements (control). The flexural strength was performed and statistical values were analyzed with one way ANOVA and Post-hoc analysis (p-value =0.05).

Results:

The changes in flexural strength of denture base resins with food stimulating agents of 40% ethanol and citric acid (0.02N).

Conclusion:

The Ethanol and citric acid has more effect on decrease in flexural strength of denture base resins.

Key words: Food and Drug administration, Polymethylmethacrylate, Universal testing machine, Denture base resins, ethanol.

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