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The effect of 16 percent carbamide peroxide on enamel staining susceptibility.

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Abstract

STATEMENT OF PROBLEM: Recently, vital bleaching by carbamide peroxide has become more popular; therefore, it is necessary to study the effect of this agent on enamel and dentin. PURPOSE: The purpose of this study was to evaluate the effect of a 16 percent carbamide peroxide bleaching gel, Vivastyle, on enamel staining susceptibility. MATERIALS AND METHODS: Thirty bovine specimens were selected and randomly divided into two groups of 15. The experimental group was subjected to Vivastyle gel and then was immersed in coffee for half an hour daily for three weeks. The control group was only immersed in coffee. The teeth were evaluated using a colorimeter to measure L*, a*, b* of each tooth. Value (black to white) is denoted as L*, whereas chroma (a* b*) is denoted as red (+a*), green (-a*), yellow (+b*), and blue (-b*). Total color differences between two colors (ΔE) were calculated using the following formula: $\Delta E = [(\Delta L^*)^2 + (\Delta a^*)^2 + (\Delta b^*)^2]$: $\Delta E1$. Bleached, AE2: bleached and immersed in coffee, $\Delta E3$: immersed in coffee. RESULTS: Mean differences were: $\Delta E1 = 9.478$, $\Delta E2 = 13.808$ and $\Delta E3 = 7.230$. Paired comparison by use of Duncan test showed there was a significant difference between $\Delta E1$ and $\Delta E2$ ($P < 0.000$); and t test showed there was no significant difference between $\Delta E3$ and $\Delta E1$. ($P > 0.05$), but $\Delta E3$ showed a significant difference with $\Delta E2$ ($P < 0.000$). CONCLUSION: After vital bleaching, the enamel staining susceptibility significantly increased.

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Indexed Keywords

EMTREE drug terms: drug derivative; hydrogen peroxide; peroxide; unclassified drug; urea; urea peroxide; Vivastyle

EMTREE medical terms: animal; article; cattle; chemically induced disorder; coffee; dental care; drug combination; drug effect; enamel; tooth discoloration

MeSH: Animals; Cattle; Coffee; Dental Enamel; Drug Combinations; Hydrogen Peroxide; Peroxides; Tooth Bleaching; Tooth Discoloration; Urea

Medline is the source for the MeSH terms of this document.

Chemicals and CAS Registry Numbers: hydrogen peroxide, 7722-84-1; peroxide, 14915-07-2; urea, 57-13-6; Drug Combinations; Hydrogen Peroxide, 7722-84-1; Peroxides; Urea, 57-13-6; Vivastyle; carbamide peroxide, 124-43-6

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