ABSTRACT

**Background:** The influence of strawberries as bleaching alternative material toward surface microhardness of the teeth is still unknown so that a research should be conducted. **Purpose:** to quantitatively assess the effects of bleaching with 10% carbamide peroxide and blended strawberry paste on post-extracted incisive teeth by performing superficial micro-hardness analysis. **Method:** Three group of sample i.e. group 1 (control): post-extracted incisive teeth soaked in ordinary mineral water, group 2: post-extracted incisive teeth soaked in carbamide peroxide 10% gel and group 3: post-extracted incisive teeth soaked in 100% strawberry paste. The microhardness of each sample group is tested before and after the application of bleaching materials. **Result:** There was significant difference of strawberry paste compared to CP 10% gel and mineral water soaked incisive teeth. The datas obtained are tabulated, then continue analyzed with one way Anova and Least Significant Difference (LSD). **Conclusion:** The application of carbamide peroxide 10% gel in 6 weeks doesn't decrease the microhardness of teeth enamel surface. But the application of strawberry paste in 6 weeks decreases the microhardness of enamel surface.

*Keyword: carbamide peroxide, strawberry, microhardness*