

## The Relation-Ship between calcium concentration of enamel of deciduous teeth to the caries experience of the elementary school children

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### Abstrak

#### **ABSTRACT**

This study has been conducted to obtain possible correlation between Calcium concentration in the enamel of Incisive deciduous teeth of 6 to 8 years children in the Elementary school and tee caries experience of the same teeth.

The hypothesis is that the caries experience is in parallel correlation with the Calcium concentration of the affected teeth. The cross sectional study involves 53 selected children among 327 children examinee. Factor which influences the concentration of Calcium in the enamel is the intake of Calcium of samples when they were still babies, whereas factor which influences caries is the plaque. It is found that there is no correlation between higher Calcium concentration and less caries experience ( $p > 0.005$ ). There is no significant difference in the concentration of Calcium between negative and positive caries children ( $p > 0.05$ ).

No significant difference is also found in the intakes Calcium of samples when they were still babies correlated with the concentration of Calcium in the enamel of samples ( $p > 0.05$ ). There is no significant correlation between the caries experience and the plaque level ( $p > 0.05$ ).

The hypothesis is not supported by the data obtained. Higher Calcium concentration in enamel is not related to less caries experience. Longitudinal study which involves higher sample number is needed to observe the interaction of one variable to another to achieve better result of the similar study.