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## Remineralization effects of gum arabic on caries-like enamel lesions

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### Abstract

#### Objective

Gum arabic is a natural polysaccharide exudate from *Acacia senegal* and other related African species of *Acacia*. Gum arabic is considered to have an ability to enhance remineralization, because of its high concentration of Ca<sup>2+</sup>. However, the caries preventive capacity of gum arabic has been scarcely investigated. We evaluated the cariostatic activities of gum arabic using histopathological methods to determine its effects on remineralization.

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## Results

The remineralization ratio of the molars exposed to gum arabic was similar to that of those exposed to NaF, while the ratios of both were significantly greater than that of those exposed to DW.

## Conclusions

Gum arabic enhanced the remineralization of caries-like enamel lesions *in vitro*, suggesting its inhibitory effects towards dental caries.

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## Keywords

Dental caries; Enamel; Gum arabic; Remineralization

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