

## EFFECT OF SOME ANTICORROSIVE MATERIALS ON MICROHARDNESS OF DENTAL AMALGAM

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### ABSTRACT

The effect of four anticorrosive; sodium phosphate (mono-, di-, and tri-basic) and sodium citrate on the microhardness of two types of amalgam systems was investigated. The anticorrosive materials were incorporated into the amalgam system at concentrations of 0.5% and 1% by weight. A total of 130 specimens were prepared. Vickers microhardness number for each specimen was determined. The results showed that incorporation of anticorrosive materials produced a decrease in microhardness of different types of amalgam. Sodium phosphates proved to have a more deleterious effect than sodium citrate. High copper amalgam proved to be more sensitive to anticorrosive additives than conventional amalgam.