

Waterpik® Fluoride Varnish Provides Superior Fluoride Release

Determine the amount of fluoride released from commercially available 5% sodium fluoride varnish.

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Objective

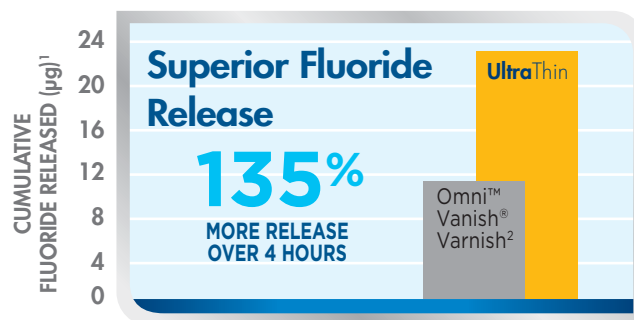
The purpose of this in vitro study was to determine the amount of fluoride released at different time points for Waterpik® UltraThin fluoride varnish. Then compare to the fluoride released at the same time points for Omni™ Vanish® fluoride varnish.

Methodology

Two-inch long and 0.25-inch diameter acrylic rods were prepared for the study. Five specimens were used for each group. Specimens were blow-dried and the weight of each was determined and recorded. One layer of freshly mixed varnish was applied and left to air-dry for one minute. The weight of each specimen was again determined and recorded. Each specimen was submerged in 2ml of deionized water with gentle agitation. After 2h, each specimen was removed and re-submerged in a fresh 2ml of deionized water with gentle agitation. The was repeated for all specimens at 4h, 6h, 8h, and 24h.

Results

One way analysis of variance showed that there was significantly more cumulative fluoride released (Qg) at 4h, 6h, 8h and 24h for the Waterpik® UltraThin fluoride varnish compared to Omni™ Vanish® fluoride varnish.



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