

Comparative Anti-plaque Effect of Stabilized Stannous Fluoride and Triclosan Dentifrices

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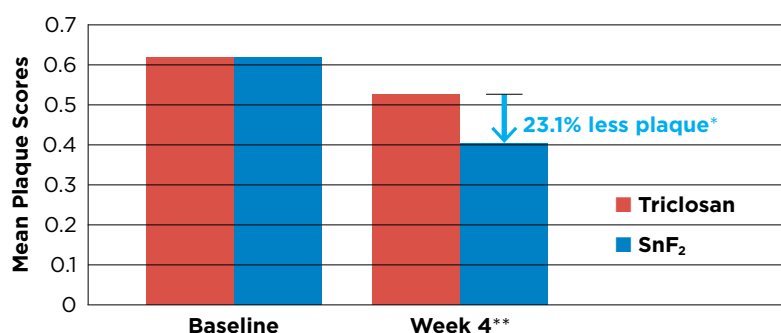
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KEY CLINICAL FINDINGS

- After 4 weeks of use, the stabilized stannous fluoride (SnF₂) dentifrice group had 23.1% lower whole mouth plaque scores and 43.5% lower interproximal plaque scores than the triclosan positive control dentifrice group ($P < 0.0001$). See Figures 1 and 2.
- Both the triclosan and SnF₂ dentifrice groups demonstrated statistically significant ($P < 0.0001$) reductions in plaque levels at Week 4 versus Baseline.
- Both treatments were well tolerated.

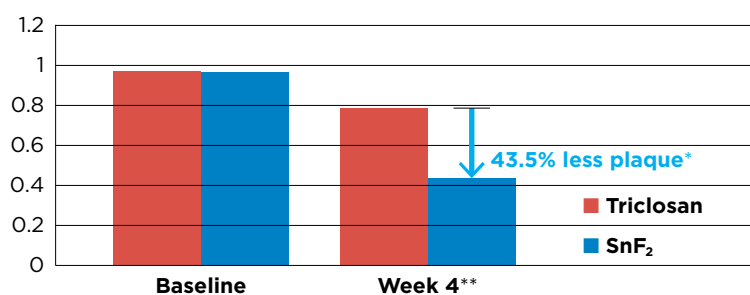
Figure 1. Whole mouth plaque scores at Baseline and Week 4.



N=118. *Statistically significant difference between groups, $P < 0.0001$.

**Week 4 values are adjusted means.

Figure 2. Interproximal plaque scores at Baseline and Week 4.



N=118. *Statistically significant difference between groups, $P < 0.0001$.

**Week 4 values are adjusted means.

OBJECTIVE

To compare the effect of a SnF₂ dentifrice versus triclosan dentifrice on reduction of plaque over a 4-week period.

STUDY DESIGN

- This was a randomized, parallel, double-blind, 4-week clinical trial including subjects with evidence of plaque.

- Subjects were randomized to one of two treatment groups:
 - Experimental 0.454% stabilized SnF₂ dentifrice (Crest® PRO-HEALTH™ Clean Mint [Smooth Formula], Procter & Gamble) or
 - Triclosan positive control dentifrice with 0.243% sodium fluoride (Colgate® Total®, Colgate-Palmolive). Both groups used a soft, regular manual toothbrush (American Dental Association) and brushed with their respective product according to manufacturer's instructions at-home.
- Plaque was evaluated using the Rustogi Modification of the Navy Plaque Index (RMNPI) at Baseline and after 4 weeks of product use.
- Statistical analyses utilized analysis of covariance with baseline value as covariate.

CLINICAL COMMENT

Chemotherapeutic antimicrobial dentifrices play an important role in the control of plaque-induced oral diseases, such as gingivitis. Both SnF₂ and triclosan dentifrices have been shown to provide significant inhibition of plaque.^{1,2} This study showed the new smooth formula SnF₂ dentifrice provided significantly greater plaque control than the triclosan dentifrice. These findings are consistent with other studies in the literature showing superior plaque protection for SnF₂ versus triclosan dentifrice.^{3,4}

¹White DJ, et al. *J Contemp Dent Pract.* 2006;July (7)3:001-011.

²Rover JA, et al. *Am J Dent.* 2014 Jun;27(3):167-70.

³He T, et al. *Am J Dent.* 2013;26: 303-306.

⁴Sharma NC et al. *J Clin Dent.* 2013;24:31-36.