

Two-year caries clinical study of the efficacy of 1450ppm fluoride toothpaste with Sugar Acid Neutraliser™ Technology*

Kraivaphan P et al.: Caries Res 47 (2013), 582-590



Aim

To explore the cavity preventive effect of adding Sugar Acid Neutraliser™ Technology to a 1450ppm fluoride toothpaste



Products under investigation

- 1450ppm fluoride (MFP) + Sugar Acid Neutraliser™ Technology
- 1450ppm fluoride toothpaste (NaF)



Study subjects

5056 participants with at least four permanent molars fully erupted and at least one permanent central and/or lateral erupted incisor completed this study



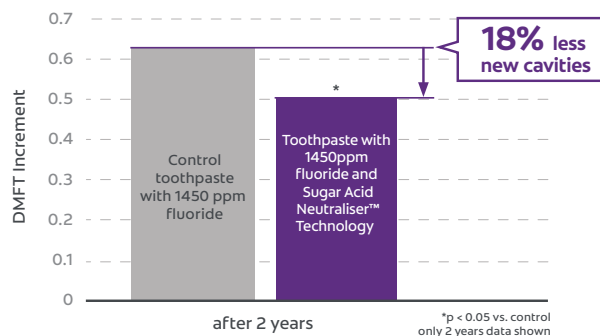
Method

A randomised, controlled double-blind parallel clinical trial where each group brushed their teeth 2x daily with their assigned toothpaste. Decayed, missing, and filled teeth at baseline, after 1 year and 2 years use. The DMFT were calculated for permanent teeth in each participant (with the exception of third molars) and then the mean DMFT were calculated for each



Results

A 1450ppm fluoride toothpaste with Sugar Acid Neutraliser™ is shown to provide significantly greater cavity protection by giving 18% less new cavities after 2 years compared to a traditional 1450ppm fluoride toothpaste



Implications for practice

This study demonstrates that by changing from a traditional 1450ppm fluoride toothpaste to brushing with 1450ppm fluoride toothpaste with Sugar Acid Neutraliser™ the number of new cavities can be reduced up to 18% without an additional oral hygiene step.

***This study summary covers only 2 years results and products relevant for the Northern European markets. For entire study, see reference.*

Further publications with this product

1. Cantore R, Petrou I, Lavender S, Santarpia P, Liu Z, Gittins E, Vandeven M, Cummins D, Sullivan R, Utgikar N. J Clin Dent 24 Spec no A (2013), A32-44
2. Hu DY, Yin W, Li X, Feng Y, Zhang YP, Cummins D, Mateo LR, Ellwood RP. J Clin Dent 24 Spec no A (2013), A23-31
3. Li X, Zhong Y, Jiang X, Hu D, Mateo LR, Morrison BM, Zhang YP. J Clin Dent 26 (2015), 7-12
4. Srisilapanan P, Korwanich N, Yin W, Chuensuwonkul C, Mateo LR, Zhang YP, Cummins D, Ellwood RP. J Dent 41 Suppl 2 (2013), S29-34
5. Souza ML, Cury JA, Tenuta LM, Zhang YP, Mateo LR, Cummins D, Ellwood RP. J Dent 41 Suppl 2 (2013), S35-41
6. Wolff M, Corby P, Klaczany G, Santarpia P, Lavender S, Gittins E, Vandeven M, -Cummins D, Sullivan R. J Clin Dent 24 Spec no A A45-54
7. Yin W, Hu DY, Fan X, Feng Y, Zhang YP, Cummins D, Mateo LR, Pretty IA, Ellwood RP. J Clin Dent 24 Spec no A (2013), A15-22
8. Yin W, Hu DY, Li X, Fan X, Zhang YP, Pretty IA, Mateo LR, Cummins D, Ellwood RP. J Dent 41 Suppl 2 (2013), S22-8