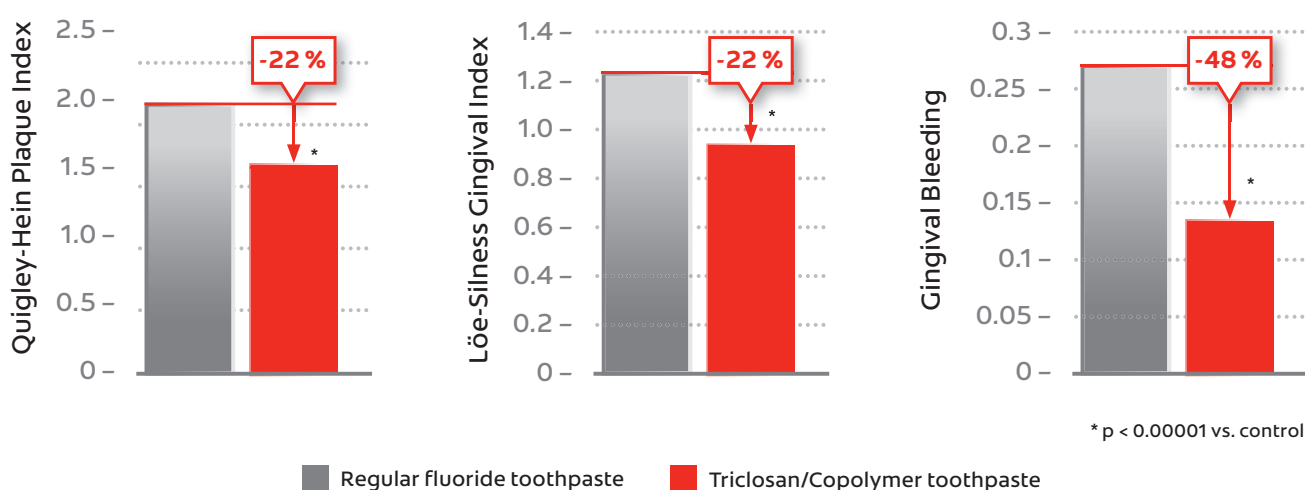


Cochrane¹ Systematic Review: Triclosan/Copolymer Toothpastes (Colgate Total®) Provide Long-Term Plaque and Gingivitis Control

RESULTS



Compared to a regular fluoride toothpaste, a Triclosan/Copolymer toothpaste such as Colgate Total® provides:

- **22 % reduction in plaque and gingivitis indices** (represented in graph)
- **48 % reduction in gingival bleeding** (represented in graph)
- **5 % reduction of new coronal caries**

COCHRANE REVIEW ESSENTIALS

- **30 randomised controlled studies** were included in the review
- **14'835 participants**
- Studies with at least **6 months study duration**
- **Published in 2013 in the Cochrane Database of Systematic Review by Riley P, Lamont T:** Triclosan/ copolymer containing toothpastes for oral health. Cochrane Database of Systematic Reviews 2013, Issue 12. Art. No.: CD010514. DOI: 10.1002/14651858.CD010514.pub2

IMPLICATION FOR PRACTICE

Colgate Total® toothpaste is an evidence-based solution suitable for the daily oral hygiene. Compared to a regular fluoride toothpaste, brushing with Colgate Total® toothpaste delivers superior reductions in plaque, gingivitis and caries and provides safe and long-term oral health benefits.

¹ The Cochrane Collaboration is a global organization promoting evidence-informed health decision-making by producing independent, relevant and standardized systematic reviews. This review is based on a previously published protocol developed in accordance to the standardized methodological guidance for the preparation and maintenance of Cochrane Intervention Reviews.

SUPPLEMENTARY REVIEW INFORMATION



PRODUCTS UNDER INVESTIGATION

- **Test toothpaste:** fluoride (in 26 studies 1100 ppm fluoride from sodium fluoride) toothpaste containing 0.3% triclosan and 2.0% copolymer of methyl vinyl ether and maleic anhydride (PVM/MA Copolymer) (Colgate-Palmolive Company, New York, NY)
- **Control toothpaste:** fluoride (in 24 studies: 1100 ppm fluoride from sodium fluoride) toothpaste without triclosan and PVM/MA Copolymer



STUDY PARTICIPANTS

In total, 14'835 participants were included in this review. 2 studies were performed with children (mean age 12.7 years). 28 studies were performed with participants from 18 to 81 years (mean age ranging from 21.5 to 59 years).



METHODS

Primary outcomes were plaque and gingivitis parameters. Meta analyses were performed on:

- Quigley-Hein Plaque Index (20 Studies), Plaque Severity Index (13 Studies), Löe-Silness Plaque Index (2 Studies)
- Löe-Silness Gingival Index (20 Studies), Gingival Severity Index (15 Studies).

Secondary outcomes were parameters on periodontitis (attachment loss: 1 study), caries (DMFS/T: 3 studies), calculus (Volpe-Manhold Calculus Index: 2 studies) and adverse effects (no adverse effects reported in 22 studies).



TRIAL PROCEDURE

1. **Screening** standard scientific databases
2. **535 references** were reviewed closely against the **inclusion criteria** of this review:
 - randomised controlled trials of at least 6 months,
 - cross-over studies with sufficient wash-out periods,
 - studies with and without baseline prophylaxis but with same treatment at baseline

Excluded: All studies with co-interventions (including periodontitis at baseline), with no fluoride-only arm or with interventions at risk to wash out active ingredients.

3. **30 studies** with various and defined levels of risk of bias were included in the review.
4. Studies with similar outcomes (plaque, gingivitis, periodontitis, caries and calculus) were combined in meta analysis according to the standardised methodology.



CONCLUSION

This Cochrane review including 30 studies with 14'835 participants confirms that long-term use of a triclosan/copolymer toothpaste results in superior reductions in plaque and gingivitis and even demonstrates additional caries reduction, when compared to a regular fluoride toothpaste. Additionally, there was no evidence of any adverse events during the studies. This indicates that Colgate Total® toothpaste is safe for long-term use and delivers proven oral health benefits.

Further publications with this product:

- Blinkhorn A, Bartold PM, Cullinan MP, Madden TE, Marshall RI, Raphael SL, et al. Is there a role for triclosan/copolymer toothpaste in the management of periodontal disease? British Dental Journal 2009;207(3):117-25.
- Gunsolley JC. A meta-analysis of six-month studies of antiplaque and antigingivitis agents. Journal of the American Dental Association 2006;137(12):1649-57.
- Paraskevas S Randomized controlled clinical trials on agents used for chemical plaque control. International Journal of Dental Hygiene 2005; 3(4): 162-78
- Davies RM, Ellwood RP, Davies GM. The effectiveness of a toothpaste containing triclosan and polyvinyl-methyl ether maleic acid copolymer in improving plaque control and gingival health: a systematic review. Journal of Clinical Periodontology 2004;31(12):1029-33.

Further information on this product:

www.colgateprofessional.co.uk/products/colgate-total-toothpaste/overview

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www.colgateprofessional.co.uk

Placeholder -
may be used
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of local
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