

INTISARI

Karies merupakan penyakit jaringan keras gigi yang terjadi akibat plak gigi. *Casein Phosphopeptides - Amorphous Calcium Phosphate* dengan tambahan fluor (CPP-ACPF) terbukti dapat menurunkan jumlah bakteri dalam plak gigi. *Tooth Mousse Plus*[®] merupakan krim berbasis air yang mengandung CPP-ACPF. Tujuan penelitian ini untuk mengetahui pengaruh aplikasi topikal *Tooth Mousse Plus*[®] terhadap penurunan akumulasi plak gigi pada anak usia 10-12 tahun.

Jenis penelitian ini adalah eksperimental semu. Subjek penelitian terdiri 32 anak, usia 10-12 tahun yang dipilih sesuai dengan kriteria. Subjek dibagi menjadi 2 kelompok, yaitu kelompok aplikasi topikal *Tooth Mousse Plus*[®] dan kelompok tanpa aplikasi *Tooth Mousse Plus*[®]. Aplikasi topikal *Tooth Mousse Plus*[®] dilakukan sekali sehari, setelah menyikat gigi malam, selama 7 hari. Plak dinilai dengan indek PHP-M sebelum dan setelah perlakuan pada hari ke 8. Penurunan akumulasi plak gigi pada kedua kelompok di analisa dengan menggunakan uji *independent t-test*.

Hasil penelitian menunjukkan rata-rata penurunan akumulasi plak gigi pada kelompok aplikasi topikal *Tooth Mousse Plus*[®] ($0,326 \pm 0,133$) lebih besar dibanding kelompok tanpa aplikasi topikal *Tooth Mousse Plus*[®] ($0,150 \pm 0,075$). Hasil uji *independent t-test* menunjukkan terdapat perbedaan bermakna antara penurunan akumulasi plak gigi pada kedua kelompok ($p < 0,05$). Kesimpulan penelitian ini yaitu aplikasi topikal *Tooth Mousse Plus*[®] berpengaruh terhadap penurunan akumulasi plak gigi pada anak usia 10-12 tahun.

Kata kunci: aplikasi topikal *Tooth Mousse Plus*[®], penurunan akumulasi plak gigi, anak usia 10-12 tahun.

ABSTRACT

Dental caries is a hard tissue disease of teeth that occurs due to dental plaque. Casein Phosphopeptide - Amorphous Calcium Phosphate with incorporated fluoride (CPP-ACPF) has been shown to decrease the amount of bacteria in dental plaque. Tooth Mousse Plus[®] is a water based creme containing CPP-ACPF. The aim of this study was to determine the effect of topical application of Tooth Mousse Plus[®] on decreasing dental plaque accumulation in children aged 10-12 years.

This study was a quasi experimental. The subjects were used in this study consisted 32 subjects, aged 10-12 years were selected according to the criteria. Subject divided into 2 groups, topical application Tooth Mousse Plus[®] group and without topical application Tooth Mousse Plus[®] group. Topical application of Tooth Mousse Plus[®] was once a day, after brushing teeth at night, in 7 days. Plaque was assessed by PHP-M index before and after treatment on day 8. The decrease of plaque accumulation in both groups were analyzed using independent t-test.

The results showed an average decrease of dental plaque accumulation of topical application of Tooth Mousse Plus[®] group (0.326 ± 0.133) was higher than without topical application Tooth Mousse Plus[®] group (0.150 ± 0.075). The result of independent t-test showed significant differences between the decrease of plaque accumulation in both groups ($p < 0,05$). The conclusion of this study was the topical application of Tooth Mousse Plus[®] has an effect on decreasing dental plaque accumulation in children aged 10-12 years.

Keyword: topical application Tooth Mousse Plus[®], the decrease of dental plak, children aged 10-12 years.