

## Hubungan antara indeks plak terhadap efikasi propolis fluoride dalam menghambat aktivitas karies = The relationship between plaque index and efficacy of propolis fluoride in inhibiting caries activity

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### Abstrak

Tujuan: Penelitian ini untuk mengetahui hubungan antara indeks plak terhadap efikasi Propolis Fluoride dalam menghambat aktivitas karies. Metode: 246 anak dengan karies aktif pada anak usia 36-71 bulan diaplikasikan Propolis Fluoride. 149 anak merupakan kelompok perlakuan dengan diberi perlakuan sikat gigi serta edukasi kesehatan gigi dan mulut rutin. Sedangkan 97 anak merupakan kelompok kontrol hanya diberi edukasi kesehatan gigi dan mulut pada saat baseline. Evaluasi pemeriksaan dilakukan setelah 3 bulan untuk menilai persentase karies yang menjadi arrested dan hubungannya dengan indeks plak. Hasil: Pada saat evaluasi 3 bulan persentase karies arrested pada kelompok perlakuan 62,44 sedangkan pada kelompok kontrol 46,18. Terdapat perbedaan bermakna rata-rata indeks plak dan jumlah karies aktif antara kelompok perlakuan dan kontrol. Terdapat hubungan yang signifikan bernilai negatif antara indeks plak dan persentase karies arrested. Terdapat hubungan yang signifikan bernilai positif antara skor tindakan dan persentase karies arrested. Kesimpulan: Terdapat hubungan yang signifikan antara indeks plak dan efikasi Propolis Fluoride dalam menghambat aktivitas karies.

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Objective To determine the relationship between plaque index and efficacy of propolis fluoride in inhibiting caries activity. Method 246 children aged 36 71 month were applied Propolis Fluoride on every tooth surface that has active caries. 149 children are intervention group, they have been treated toothbrushing program and give them routine Dental Health Education. 97 children are control group only have been given Dental Health Education on the baseline. The evaluation and examination were conducted after 3 months to measure the percentage of arrested caries and the correlation with plaque index. Result At the 3 months evaluation, the percentage of arrested caries for both group of intervention and control were 62,44 and 46,18 respectively. There was a significant difference in mean plaque index and the number of active caries between two groups. There was a significant correlation between the plaque index and the percentage of arrested caries. There was a significant correlation between the behavior score and the percentage of arrested caries. Both correlation has negative and positive value respectively. Conclusion There is a significant correlation between plaque index and efficacy of Propolis fluoride in inhibiting caries activity.