

ABSTRAK

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EFEKTIFITAS *DISCLOSING SOLUTION* GEL BUAH KARAMUNTING (*Melastoma malabathricum l.*) SEBAGAI IDENTIFIKATOR KEBERSIHAN GIGI DAN MULUT

xvi + 38 Halaman + 9 Tabel + 13 Lampiran

Penyakit gigi dan mulut masih menjadi masalah global, dengan karies gigi yang terus meningkat. *Data Global Burden of Disease Study* 2019 menunjukkan prevalensi karies pada gigi permanen dan sulung menurun sebesar 3,6%, namun jumlah kasus terus bertambah, terutama di Afrika Sub-Sahara akibat pertumbuhan populasi. Di Indonesia, prevalensi masalah kesehatan gigi dan mulut mencapai 57,6%, dengan karies dan sakit gigi sebagai masalah utama pada anak-anak usia 3-9 tahun. Deteksi dini plak gigi penting untuk mencegah karies. Penelitian ini bertujuan mengetahui efektifitas gel *disclosing solution* dari buah karamunting (*Melastoma malabathricum l.*) sebagai identifikator kebersihan gigi dan mulut pada anak-anak di SLB YPAC Surabaya.

Penelitian menggunakan desain *quasy experiment* dengan metode *post-test with control group design*, melibatkan 24 responden yang dibagi menjadi 4 kelompok menggunakan random sampling. Data dikumpulkan melalui lembar penilaian kebersihan gigi dan mulut. Analisa data dilakukan menggunakan uji *Kruskal Wallis* untuk mengetahui perbedaan *disclosing solution* berbahan kimia dan gel buah karamunting.

Hasil penelitian menunjukkan nilai *p-value* < 0,05, sehingga terdapat perbedaan signifikan pada penggunaan gel karamunting dengan konsentrasi 7,5%, 10%, dan 12,5% dibandingkan *disclosing solution* berbahan kimia. Gel *disclosing solution* dari buah karamunting berpotensi menjadi alternatif identifikator kebersihan gigi dan mulut.

Kata kunci: gel buah karamunting, *disclosing solution* berbahan kimia, kebersihan gigi dan mulut

Daftar bacaan: buku (2012-2024)

ABSTRACT

M. Ibraar Ayatullah

EFFECTIVENESS OF DISCLOSING SOLUTION GEL OF KARAMUNTING FRUIT (*Melastoma malabathricum* L.) AS A ORAL HYGIENE IDENTIFIER"

xvi + 38 Pages + 9 Tables + 13 Appendices

Dental and oral diseases remain a global issue, with dental caries on the rise. Data from the Global Burden of Disease Study 2019 shows a 3.6% decrease in the prevalence of caries in permanent and deciduous teeth, but the number of cases continues to increase, particularly in Sub-Saharan Africa due to population growth. In Indonesia, the prevalence of dental and oral health problems reaches 57.6%, with caries and toothache being the main issues among children aged 3-9 years. Early detection of dental plaque is crucial in preventing caries. This study aimed to evaluate the effectiveness of disclosing solution gel made from karamunting fruit (*Melastoma malabathricum* L.) as an indicator of oral hygiene among children at SLB YPAC Surabaya.

The study employed a quasi-experimental design with a post-test control group design, involving 24 respondents divided into 4 groups using random sampling. Data was collected using an oral hygiene assessment sheet, and the analysis was conducted using the Kruskal-Wallis test to identify differences between the chemical disclosing solution and the karamunting gel.

The research shows a p-value of <0.05 , indicating a significant difference in the use of karamunting gel at concentrations of 7.5%, 10%, and 12.5% compared to the chemical disclosing solution. The disclosing solution gel from karamunting fruit has the potential to be an alternative indicator for oral hygiene.

Keywords: karamunting fruit gel, chemical-based disclosing solution, oral hygiene
References: books (2012-2024)