

ABSTRAK

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Judul : Hubungan Pasta Gigi Berbahan Baking Soda dengan Penurunan Kadar *Volatile Sulphur Compounds* (VSCs) pada Pasien Ortodonti Usia 18-22 Tahun di Fakultas Kedokteran Gigi Universitas YARSI

Latar belakang: Pemakaian alat ortodonti cekat dapat menyebabkan pasien kesulitan dalam membersihkan gigi dan jaringan sekitarnya karena kompleksnya komponen alat tersebut dan dapat berdampak pada penurunan kebersihan gigi dan mulut. Islam telah menegaskan pentingnya menjaga kebersihan tubuh kita termasuk kebersihan gigi dan mulut serta anjuran untuk menjaga atau mempertahankan kesehatannya. **Tujuan penelitian:** Penelitian ini dilakukan untuk mengetahui bagaimana hubungan penggunaan pasta gigi berbahan baking soda pada pasien ortodonti usia 18-22 tahun di Fakultas Kedokteran Gigi Universitas YARSI dan pandangannya dari perspektif Islam. **Metode penelitian:** Desain penelitian ini adalah *quasi experiment* dengan *pre test* dan *post test* design. **Hasil penelitian:** Didapatkan penurunan kadar *Volatile Sulphur Compounds* (VSCs) setelah penggunaan pasta gigi berbahan baking soda dengan kekuatan korelasi yang signifikan antara *pre test* dan *post test* penelitian. **Kesimpulan:** Disimpulkan bahwa terdapat hubungan yang bermakna dengan $p\text{-value}=0,003$ antara penggunaan pasta gigi berbahan baking soda dengan penurunan kadar *Volatile Sulphur Compounds* (VSCs). Islam memperbolehkan menyikat gigi dengan pasta gigi berbahan baking soda yang didasarkan pada kaidah fikih hukum segala sesuatu yang bermanfaat adalah boleh.

Kata kunci: Baking soda, pasta gigi, senyawa belerang

ABSTRACT

Name : Faika Zahra Chairunnisa
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Title : Relationship between Baking Soda Based Toothpaste with Decreased Levels of Volatile Sulfur Compounds (VSCs) in Orthodontic Patients Aged 18-22 Years at Faculty of Dentistry YARSI University

Background: The use of fixed orthodontic appliances can cause difficulties for patients in cleaning their teeth and surrounding tissues due to the complexity of the components of these appliances and can have an impact on reducing dental and oral hygiene. Islam has emphasized the importance of maintaining our body's cleanliness, including oral and dental hygiene as well as recommendations for protecting or maintaining its health. **Objective:** This research was conducted to find out the relationship between the use of toothpaste made from baking soda in orthodontic patients aged 18-22 years at Faculty of Dentistry YARSI University and their views from an Islamic perspective. **Methods:** This is a quasi experiment study with a pre test and post test design. **Results:** There was a decrease in the levels of Volatile Sulfur Compounds (VSCs) after using toothpaste made from baking soda with sufficient correlation strength between the pre-test and post-test of the study. **Conclusion:** It was concluded that there was a significant relationship with p -value = 0.003 between the use of toothpaste made from baking soda and decreased levels of Volatile Sulfur Compounds (VSCs). Islam allows brushing teeth with toothpaste made from baking soda which is based on the rules of jurisprudence, everything that is useful is permissible.

Key words: Sodium bicarbonate, toothpastes, sulfur compounds