

INTISARI

DEWANTI INTAN PAMUNGKASARI

**PENGARUH PENGGUNAAN *TONGUE SCRAPER* TERHADAP
PENURUNAN NILAI STATUS *TONGUE COATING* PADA LANSIA
MANDIRI (Studi Eksperimental Menggunakan Program Pengolahan Citra
Digital)**

Tongue coating merupakan lapisan putih hingga kecoklatan yang melekat di permukaan dorsal lidah. Lapisan ini merupakan akumulasi sel epitel mukosa oral yang terdeskuamasi, sel darah terutama leukosit dari poket periodontal, metabolit, berbagai sisa makanan, serta bakteri. *Tongue coating* merupakan tempat berkumpulnya bakteri dalam jumlah besar sehingga berpotensi menjadi fokus infeksi dan merupakan penyebab bau mulut atau halitosis. Penelitian ini bertujuan untuk mengetahui pengaruh pembersihan lidah dengan penggunaan *tongue scraper* terhadap nilai status *tongue coating*. Penelitian dilakukan pada 15 lansia yang berusia 60 sampai 70 tahun. Pengolahan citra digital untuk menilai keberadaan *tongue coating* dengan pengambilan citra antara sebelum dan sesudah penggunaan *tongue scraper*. Pengolahan citra yang digunakan menggunakan metode analisa tekstur dengan fitur *smoothness* dan *uniformity*. Hasil penelitian menunjukkan bahwa ada perubahan status *tongue coating* sebelum dan sesudah penggunaan *tongue scraper* pada lansia mandiri yang dianalisis menggunakan program pengolahan citra digital variabel *smoothness* dan *uniformity*. Berdasarkan penelitian ini dapat disimpulkan bahwa pada penggunaan *tongue scraper* dapat menurunkan nilai status *tongue coating* sebelum dan sesudah penggunaan *tongue scraper* pada lansia mandiri yang dianalisis menggunakan program pengolahan citra digital.

Kata kunci : *tongue scraper*, *tongue coating*, pengolahan citra digital.

Kepustakaan : 71 (1975-2019)

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ABSTRACT

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***EFFECT OF TONGUE SCRAPER USAGE ON THE DECREASE OF
TONGUE COATING STATUS IN INDEPENDENT ELDERLY
(Experimental Study Using Digital Image Processing Program)***

Tongue coating is a white to brownish coating that adheres to the dorsal surface of the tongue. This layer is an accumulation of desquamated oral mucosal epithelial cells, blood cells especially leukocytes from periodontal pockets, metabolites, various food scraps, and bacteria. Tongue coating is a gathering place for bacteria in large numbers so it has the potential to be the focus of infection and causes bad breath or halitosis. This study aimed to determine the effect of tongue cleaning using tongue scraper on the value of the status of tongue coating. The study was conducted on 15 elderly people aged 60 to 70 years. Digital image processing was conducted to assess the presence of tongue coating by taking an image between before and after the use of a tongue scraper. Texture analysis method of image processing was done with the features of smoothness and uniformity. The results showed there was a change in the status of the tongue coating before and after the use of the tongue scraper in independent elderly that analyzed using digital image processing program on smoothness and uniformity variables. Based on this study it can be concluded that in the use of tongue scraper there is decreased value of the status of the tongue coating before and after the use of the tongue scraper in independent elderly who is analyzed using a digital image processing program.

Keywords: *tongue scraper, tongue coating, digital image processing*

References : 71 (1975-2019)