

Pengaruh obat kumur yang mengandung zinc acetate dan chlorine dioxide terhadap profil protein saliva = Effect of mouthwash containing zinc acetate and chlorine dioxide on salivary protein profile / Ni Matul Khoiriyah

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Abstrak

ABSTRAK

Latar Belakang: Penggunaan obat kumur sudah menjadi kebiasaan disamping menyikat gigi. Salah satu obat kumur yang beredar di masyarakat mengandung zat aktif zinc acetate dan chlorine dioxide yang berkhasiat sebagai antimikroba, antikalkulus dan mengurangi halitosis. Bagaimana dampak penggunaannya terhadap protein saliva perlu diteliti. Tujuan: Menganalisis perubahan profil protein saliva sebelum dan setelah penggunaan obat kumur yang mengandung zinc acetate dan chlorine dioxide selama waktu tertentu. Metode: Whole saliva dari 5 subyek dikumpulkan sebelum berkumur dan 1 minggu, 2 minggu serta 3 minggu setelah berkumur. Profil protein saliva dianalisis dengan menggunakan SDS-PAGE. Hasil: Rentang pita protein sebelum bekumur yaitu 21-192 kDa; 1 minggu setelah berkumur yaitu 21-236 kDa; 2 minggu setelah berkumur yaitu 20-83 kDa; dan 3 minggu setelah berkumur yaitu 29-240 kDa. Kesimpulan: Secara deskriptif, terlihat perubahan profil protein saliva setelah menggunakan obat kumur yang mengandung zinc acetate dan chlorine dioxide.

ABSTRACT

Backgrounds: Using mouthwash has been a daily habit besides tooth brushing. A lot of mouthwash that present in the market with variety of component and function, one of them is containing zinc acetate and chlorine dioxide as antimicrobial, anticalculus, and reducing halitosis. How its impacts to the salivary proteins need to be investigated. Objective: To analyze the effect of mouthwash containing zinc acetate and chlorine dioxide on salivary protein profile. Methods: whole saliva from 5 subjects were collected before rinsing, 1 week, 2 weeks, 3 weeks after rinsing. Salivary protein profile analyzed by SDS-PAGE method. Results: Range of protein band before rinsing are around 21-192 kDa, 1 week after rinsing are around 21-236 kDa, 2 weeks before rinsing are around 20-83 kDa, and 3 weeks after rinsing are around 29-240 kDa. Conclusion: There was alternation of salivary protein profile after usage of mouthwash containing zinc acetate and chlorine dioxide.