

POSTER PRESENTATION ABSTRACT

ACOS23P-001: Lip Matte Containing Shea Butter and Titanium Dioxide Improves Lips Wrinkles and Roughness

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Dryness and chapping of the lip skin are significant concerns in lip care for various populations. The histology of the vermilion region of the lips is characterized by thin stratified squamous epithelium, providing protection but lacking sweat and sebaceous glands to maintain moisture. This deficiency in water content and barrier function often leads to dry, rough, and darkened lips. Cosmetic products like lip matte, lipstick, and lip balm are commonly used to enhance lips. The formulation containing shea butter and titanium dioxide has exhibited natural moisturizing capabilities and has shown promise in improving dry lips. Thus, this study aimed to evaluate the safety and effectiveness of a lip matte containing shea butter and titanium dioxide. Twenty-six female participants with dry lips (aged 27-31 years) were enrolled. Clinical images of the lips were taken before and after 30 days of lip matte application to assess lip wrinkle and roughness. Significant differences were observed in lip wrinkle and roughness parameters ($p < 0.05$). Over the 30-day period, there was a notable 58% reduction in lip wrinkles and a 23% decrease in lip roughness. The application of lip matte containing shea butter and titanium dioxide for 30 days led to visible improvement in lip wrinkles and roughness. This study suggests that a lip matte product containing shea butter and titanium dioxide holds potential for improving lip wrinkles and roughness among the Malaysian population.

Keywords: Lip Matte, Lip Wrinkle, Lip Roughness, Efficacy, Safety