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The new approach of body odor evaluation in elderly people

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Body odor is caused by degraded skin components accumulating on the skin surface as well as secretions from the sweat and sebaceous glands and could be affected by aging. Human aging has been focused on the skin than body odor, so most studies have been studied about the skin change with aging. Only a few studies are known about the age-dependent changes of body odor. The aim of this study was to establish a new method for the evaluation of body odor and to investigate the anti-odor effect of body wash product on randomization, double-blind and cross over study. 22 subjects aged between 51 and 61 years (average age: 55.68 ± 2.69 y), participated in this study. Four odor judges evaluated the efficacy of both products, quantitative analysis of 2-nonenal and isovaleric acid as the cause of body odor by gas chromatography, EEG measurement. Additionally, bactericidal and fungicidal activities were investigated with *in vitro* microbiologic test. We examined for significant differences between test group and placebo and the correlation of each evaluate parameters. This study has shown decrement effect of Natural Antimicrobial Complex on body odor and the application of EEG method for evaluation of odor test showed the stress rate increased when odor score are high. This methodology is suggested to establish on objective evaluation method in the characterization of facial features in skin care and evaluations of fragrance. Also, this new method could be useful in sensory evaluation field.

Biography

Young Kyoung Seo is currently the Leader of Clinical Evaluation Department in DERMAPRO Ltd. She has been working for 13 years after studying Chemistry and Physiology. She has worked in the cosmetic field and functional food for skin condition. She has been focusing on the aging of skin and odor.

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