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Abstract

The Efficacy of the Amomum biflorum Jack cream for preventing dry skin in working age adults

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Abstract:

Amomumschmidtii (K.Schum.)Gagnep (syn. A.biflorum Jack) is the annual plant, that prefer to grow in the moist atmotphere. A.biflorum Jack has a specific smell, especially at the rootstock. A.biflorum Jack's oil was extracted by steam distillation, and the most extracted plant compounds were terpene groups. A.biflorum Jack's oil was tested by 2,2-Diphenyl-1-picrylhydrazyl radical scavenging (DPPH), and found the anti-oxidant of 18.29, 15.36, and 7.26 µg/ml in the rainy, winter, and summer season, respectively (by comparing with standard Trolox). Therefore, 1% of A.biflorum Jack's oil was mixed to the cream for testing the moistness, oiliness, and the distance between skin creases, which comparing coconut-cream, cold-cream, and bare-skin at 0, 1, 10, 30, 60, and 120 minutes. The test of moistness, oiliness used the corneometer, and the sebumeter of the multi-probe adapter system, respectively. the distance between skin creases were measured under stereomicroscope using 6.5X magnification. The t-test and ANOVA were used for analysis. A.biflorum Jack's cream significantly increased moisture, and oily skin at pre and at post 120 minutes ($t(44)= -6.4$, and -4.79, $p<0.01$, respectively). Moreover, A.biflorum Jack's cream significantly decreased the distance between skin creases ($t(44)= 2.79$, $p<0.01$). Moisture and oily skin were significantly different between A.biflorum Jack's cream, coconut-cream, cold-cream, and bare-skin ($F(3,1076) = 39.51$ and65.69, $p<0.001$). However, The distance between skin creases was not significantly different between 4 types of testing ($F(3,1076) = 5.48$, $p=0.23$). Additionally, A.biflorum Jack's was not found the microbacteria, and the compound in the cream was stablilty, which was checked by Fourier Transform Infrared Spectroscopy (FT-IR). Finally, A.biflorum Jack's cream is ready apply for preventing dry skin in working age adults.

Biography:

Seekaow Churproong has completed a Medical doctor at the age 24 years (since 2005) from Praboromaratchanok Institute, a jointed program between MaharatNakhonRatchasima hospital and Mahidol University, Thailand. And, I have completed Master degree of science regarding Sport and Health Sciences from the University of Exeter, the United Kingdom at the 36 years (since 2017). I worked at WangNamKeaw hospital for 3 years, and I was a head of the herbal medicine and Thai massage department at the rural hospital. I am inspired and interested in herbal medicine. As a result, I try to find more experiences in herbal and alternative medicine. Now, I am an Assistant Professor of Family Medicine at Suranaree University of Technology, Thailand. I am a family doctor who interested in the Thai herb product project. I have published 5 papers in the journals.

Publication of speakers:

1. Davidsson, N., and Södergård, B. 2016. "Access to Healthcare among People with Physical Disabilities in Rural Louisiana." Social Work in Public Health 31 (3): 188-95.
2. MacAuley, D., ed. 2013. Oxford Handbook of Sport and Exercise Medicine. 2nd ed. Oxford: Oxford University Press, 214-20.
3. Ravesloot, C., Ward, B., Hargrove, T., Wong, J., Livingston, N., Torma, L., and Ipsen, C. 2016. "Why Stay Home? Temporal Association of Pain, Fatigue and Depression with Being at Home." Disability and Health Journal 9 (2): 218-25.

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