



A Review of the Efficacy and Safety of Retinoids in the Treatment of Ultraviolet Related Skin Conditions and Skin Ageing

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Abstract

Retinoids refer to all natural and synthetic products having a structure or biological activities similar to vitamin A, which helps to modulate the function of homeostasis, metabolism, epithelial growth and immune regulation as well as inflammation via retinoid receptors. Recently, there has been a growing interest in retinoids in the management of UV-related skin conditions, including skin cancer, solar ageing as well as dyspigmentation, which cause a huge dermatological and psychological burden on patients. However, scientific evidence and a standard guideline of retinoids on these conditions are still limited. Skin cancer is caused by accumulative DNA damage by UVR along with an impaired DNA repair mechanisms. Retinoids seem to have a chemopreventive effect by modulating the repair processes and programmed cell death. Acitretin appears to be effective in the chemoprevention of SCC among OTRs but due to the side effects of systemic retinoids, the application should be limited to high-risk populations and the rebound effect may occur after discontinuing medication. UVR also causes skin ageing that leads to a structural and functional deterioration of skin. Wrinkling, mottled hyperpigmentation and solar lentigo can be improved by long-term use of topical retinoids, such as topical tretinoin or adapalene. The efficacy seems to be correlated with the strength of retinoids along with their side effects, which can gradually subside overtime. Thus, low concentration of retinoids along with an emollient as well as a sunscreen application should be introduced during the initiating period to avoid drug interruption or discontinuation. Due to several limitations of clinical studies, the

efficacy of cosmeceutical products on skin ageing is still controversial. Besides, long-term use of topical tretinoin may improve melasma but a treatment combination along with topical retinoids is suggested to yield a satisfactory result with minimal side effects.

Biography

Dr. Kiticharoensak Omrapee has completed her medical degree from Chulalongkorn University, Thailand and master's degree of clinical dermatology from Cardiff University, UK. In addition, she earns a MBA degree from Peking University, China and did the exchange program at Waseda University, Japan. Dr. Omrapee was a medical advisor at Novartis (Thailand). After graduating from UK, she is an aesthetitian at Hertitude clinic in Bangkok, Thailand.

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