ACADEMICIA: An International Multidisciplinary Research Journal
ISSN: 2249-7137 Vol. 11, Issue 11, November 2021 SJIF 2021 = 7.492
A peer reviewed journal

A LOOK AT THE SAFETY AND EFFICACY OF SUNSCREENS

Dr Anurag Verma*; A. Elphine Prabhahar**

*Department of Pharmacy,
Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA

**Department of Pharmacy,
Teerthanker Mahaveer University, Moradabad, Uttar Pradesh, INDIA

DOI: 10.5958/2249-7137.2021.02556.8

ABSTRACT

Many health care professionals advise the use of sunscreen products to prevent skin damage caused by ultraviolet radiation (UVR) from sunshine. Given the continuing effort to promote sunscreen usage, there is a need to learn more about the effectiveness and safety of these products. The sun protection factor (SPF), which is used to determine sunscreen effectiveness, is a good way to evaluate UVB (290-320 nm) filters. The SPF test, on the other hand, does not properly evaluate sunscreens' entire photoprotective profile, particularly against long wavelength UVAI (340-400 nm). Furthermore, despite the immediate and apparent consumer demand for sunscreen products that offer broad-spectrum UVB and UVA photoprotection, there is no one, agreed-upon technique for assessing UVA effectiveness. The following list of widely used organic and inorganic sunscreens has good toxicological profiles based on acute, sub chronic, and chronic animal or human research. Furthermore, sunscreens have been proven to protect against the harmful effects of UVR exposure in the majority of investigations. As a result of this analysis of presently available evidence, it has been determined that sunscreen components or products do not pose a risk to human health. Furthermore, as part of a larger plan to decrease UVR exposure, frequent use of suitable broad-spectrum sunscreen products may have a substantial and positive effect on public health.

KEYWORDS: *Efficacy, Safety, Sunscreens, Sun Protection, Short Wavelength, UVR.*

REFERENCES:

1. Marks R. An overview of skin cancers. Incidence and causation. Cancer. 1995;
2. Kumar A, Jain RK, Yadav P, Chakraborty RN, Singh BK, Nayak BK. Effect of gamma irradiation on the etching properties of Lexan and Makrofol-DE polycarbonate plastics. J Radioanal Nucl Chem. 2013;
3. Kehwar T, Chopra K, Rai D. A unified dose response relationship to predict high dose fractionation response in the lung cancer stereotactic body radiation therapy. J Med Phys. 2017;
4. Goyal MK, Rai D V., Manjhi J, Barker JL, Heintz BH, Shide KL, et al. Study of dosimetric and spatial variations due to applicator positioning during inter-fraction high-dose rate brachytherapy in the treatment of carcinoma of the cervix: A three dimensional dosimetric

analysis. Int J Radiat Res. 2017;

5. Schüz N, Eid M. Sun Exposure and Skin Cancer Prevention. In: International Encyclopedia of the Social & Behavioral Sciences: Second Edition. 2015.

6. Jain RK, Kumar S, Kumar A, Kumar A, Singh MK, Singh V. Effects of UV irradiation on Fission-fragment track parameters in Makrofol-E detector. Int J Mod Phys E. 2019;

7. Marks R. An overview of skin cancers. Cancer. 1995;

8. Lata S, Mittal SK. Identification of flavonoid glycosides of methanol extract from cucumis dipsaceus ehrenb. (fruit) by using HPLC-UV-ESI-MS methods. Int J Pharm Qual Assur. 2017;

9. Jain M, Preeti. Availability analysis of software rejuvenation in active/standby cluster system. Int J Ind Syst Eng. 2015;

10. Schüz N, Eid M. International Encyclopedia of the Social & Behavioral Sciences. International Encyclopedia of the Social & Behavioral Sciences. 2015.

11. Beral V, Robinson N. The relationship of malignant melanoma, basal and squamous skin cancers to indoor and outdoor work. Br J Cancer. 1981;

12. Petersen B, Wulf HCO, Triguero-Mas M, Philipsen PA, Thieden E, Olsen P, et al. Suppression of TGFβ and Angiogenesis by Type VII Collagen in Cutaneous SCC. J Am Acad Dermatol. 2018;

13. Berg M. Epidemiological studies of the influence of sunlight on the skin. Photodermatology. 1989;

14. Tripathi L, Kumar P, Singh R. A Review on Extraction, Synthesis and Anticancer Activity of Betulinic Acid. Curr Bioact Compd. 2009;

15. Tripathi L, Kumar P, Singh R. Role of chelates in magnetic resonance imaging studies. Journal of Cancer Research and Therapeutics. 2009.

16. P L C, Soujanya D, Karani H. Clinico Epidemiological And Biochemical Profile Of Patients With Melasma. J Evol Med Dent Sci. 2015;

17. Jones AP, Palmer D, Zhang G, Prescott S. Allergic diseases of the skin and drug allergies – 2006. Cord blood 25-hydroxyvitamin D3 and allergic disease during infancy. World Allergy Organ J. 2013;

18. Kolmel KF, Pfahlberg A, Gefeller O. [Prevention of melanoma by sun protective measures in childhood. Temporal changes in awareness of parents]. Hautarzt. 1997;

19. Banerjee K, Prasad RA. Reference based inter chromosomal similarity based DNA sequence compression algorithm. In: Proceeding - IEEE International Conference on Computing, Communication and Automation, ICCCA 2017. 2017.

20. Shaida MN, Singla S. Global biomedical waste management issues and practices. Int J Innov Technol Explor Eng. 2019;