



Enzymes that Alter the Methylation of Histones for the Treatment of Skin Cancer

David Alland*

Department of Radio Oncology, University of Malaya, Malaysia

INTRODUCTION

Skin cancer risk can be decreased by reducing indoor tanning, avoiding midday sun exposure, applying sunscreen, and avoiding tobacco products. Due to the presence of UV light, it is essential to limit sun exposure and avoid tanning beds. UV light is known to alter DNA in skin cells, causing damage. On the skin, the mutated DNA can result in tumours and other growths. There are additional risk factors in addition to UV exposure. There is insufficient evidence to support or refute skin cancer screening. Nutrient and cell reinforcement enhancements have not been found to be effective in preventing disease.

DESCRIPTION

There are no clinical trials to support the hypothesis that dietary changes can lower melanoma risk, despite some epidemiological evidence to the contrary. Sunscreens commonly contain zinc oxide and titanium dioxide to provide broad UVA and UVB protection. Despite the fact that specific food varieties might bring down the gamble of getting a burn from the sun, utilizing sunscreen offers essentially more security. Individuals with xeroderma pigmentosum who applied T4N5 liposome salve to their skin had a slower pace of basal cell carcinomas showing up, and individuals who take acitretin by mouth might have better skin security after kidney transfers, as per a meta-examination of skin malignant growth counteraction in individuals at high gamble. A vaccine that stimulates the production of a protein that is essential to the antioxidant network on the skin could increase people's protection against skin cancer, according to research that was published in January 2022 by the Oregon State University College of Pharmacy. This study found that the vaccine could do this. Radiation therapy, impaired immune

function, long-term arsenic exposure, and exposure to ultraviolet light are all risk factors. When a child is young, exposure to ultraviolet light is especially harmful. Another common source of ultraviolet radiation is tanning beds. Frequently, a skin examination and a tissue biopsy are used to confirm the diagnosis. It is still unknown how sunscreen affects the likelihood of developing basal cell cancer. Typically, treatment involves surgical removal. If the cancer is small, this can be accomplished with a straightforward excision; On the other hand, Mohs surgery is typically recommended. Cryosurgery, topical chemotherapy, photodynamic therapy, laser surgery, electrodesiccation and curettage, and imiquimod, a medication that is applied directly to the skin and stimulates the immune system, are additional options. Chemotherapy or targeted therapy may be used in rare cases of distant spread. At least 32% of all cancers worldwide are caused by basal cell carcinoma. About 80% of skin cancers, with the exception of melanoma, are basal-cell-based. About 25% of white women and 35% of white men in the United States have BCC at some point in their lives.

Cancer is linked to radiation, including ultraviolet radiation and radioactive substances. UV light, mostly from sunlight, is the cause of many non-melanoma skin cancers. Medical imaging and radon gas are two examples of sources of ionizing radiation. Mutagens produced by ionizing radiation are not particularly potent. Passive smoking and residential radon gas exposure, for instance, both raise cancer risk. When combined with other agents that have the potential to cause cancer, such as radon and tobacco smoke, radiation becomes a more potent source of cancer. Regardless of age, radiation can cause cancer in the majority of an animal's body. Radiation-induced leukemia affects children twice as frequently as it does adults; 10 times more harm is caused by radiation exposure before birth.

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Corresponding author David Alland, Department of Radio Oncology, University of Malaya, Malaysia, E-mail: alland_d@gmail.com

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CONCLUSION

Utilization of ionizing radiation for clinical purposes is a small but growing source of radiation-induced malignant growths. Other types of cancer can be treated with ionizing radiation, but it can also cause a second type of cancer. It is also utilized in some methods of medical imaging. Melanoma and other skin cancers can develop from prolonged sun exposure. There is a lot of evidence to suggest that ultraviolet radiation, particularly the non-ionizing medium wave UVB, is responsible for the ma-

majority of non-melanoma skin cancers the most common type of cancer worldwide.

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CONFLICT OF INTEREST

The authors declare that they have no conflict of interest.