

Effect on eyes: → strong dose of UVB and UVC radiation to the eye can lead to conjunctivitis and photokeratitis.

This results in irritation, watering of eyes and photophobia.

This is also called as snow blindness when it arises due to solar UVB and UVC reflecting from snow.

Strong dose of UVA may cause cataract

Long term & chronic effects of UVR on the skin:

Solar elastosis and ageing: Prolong exposure over many years to strong solar UVR can lead to premature ageing of the skin.

There is thinning of epidermis, loss of epidermal ridges, loss of melanocytes, dryness as a result of poor function of sebaceous and sweat glands, wrinkling due to lack of dermal connective tissues.

Prolong exposure of UVB and UVC can lead to carcinogenesis as these rays of effect on DNA and thus on cell replication.

- So prolong exposure of patient skin to shorter UVR should be avoided and the course of treatment should not exceed four weeks.