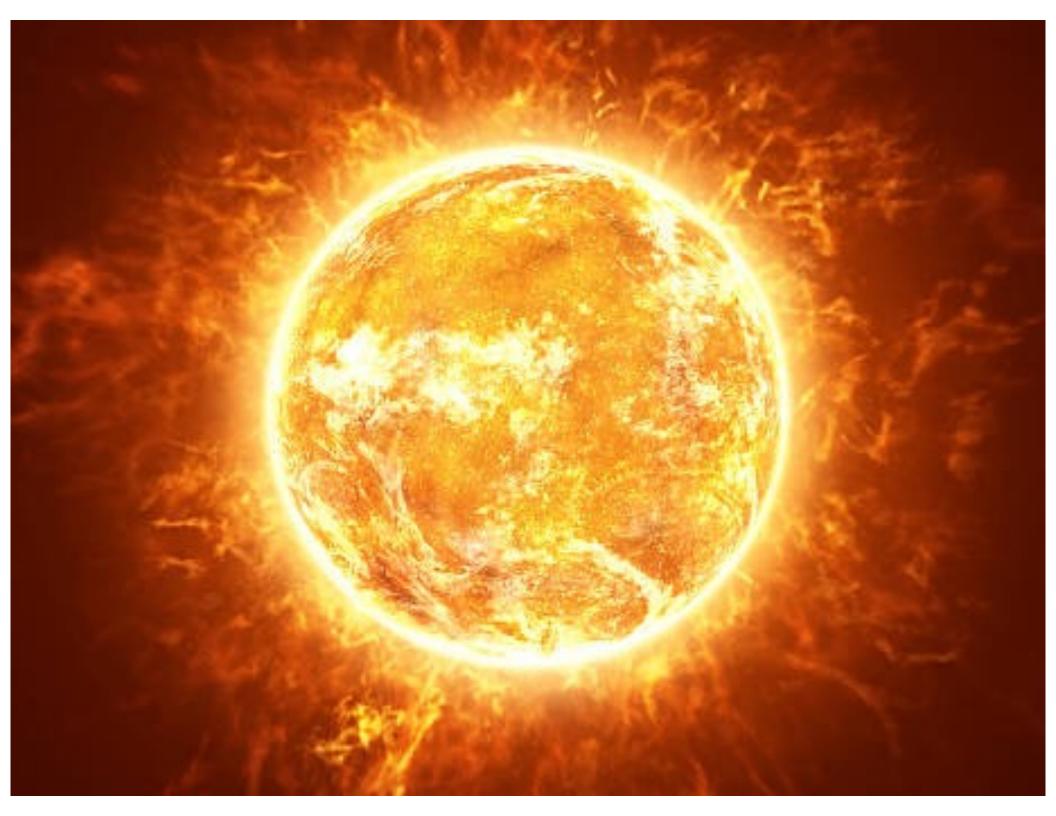


presented by BWC Division of Safety and Hygiene



Objectives of This Ultraviolet Radiation Program

- TO MAKE EXPOSED WORKERS AWARE OF THE HAZARDS OF ULTRAVIOLET RADIATION
- TO CHANGE AT RISK BEHAVIOR TO PROTECTIVE BEHAVIOR

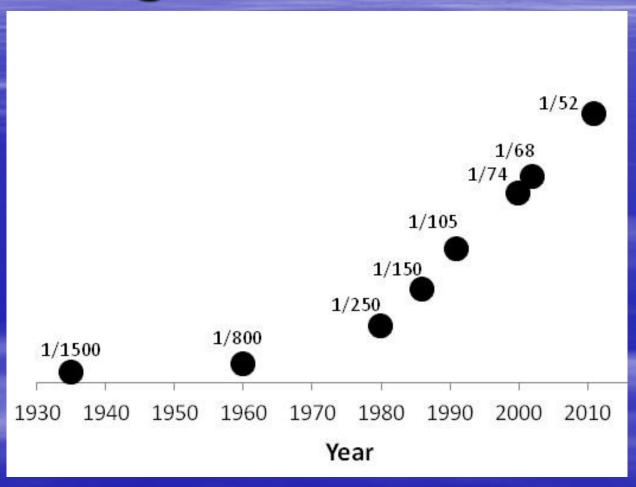
WARNING

THE SURGEON GENERAL HAS DETERMINED THAT ANYTHING, ANYWHERE, ANYTIME MAY BE HAZARDOUS TO YOUR HEALTH.





Lifetime Risk of Malignant Melanoma



US. Data are reported as lifetime risk and are taken from NCI SEER reports.

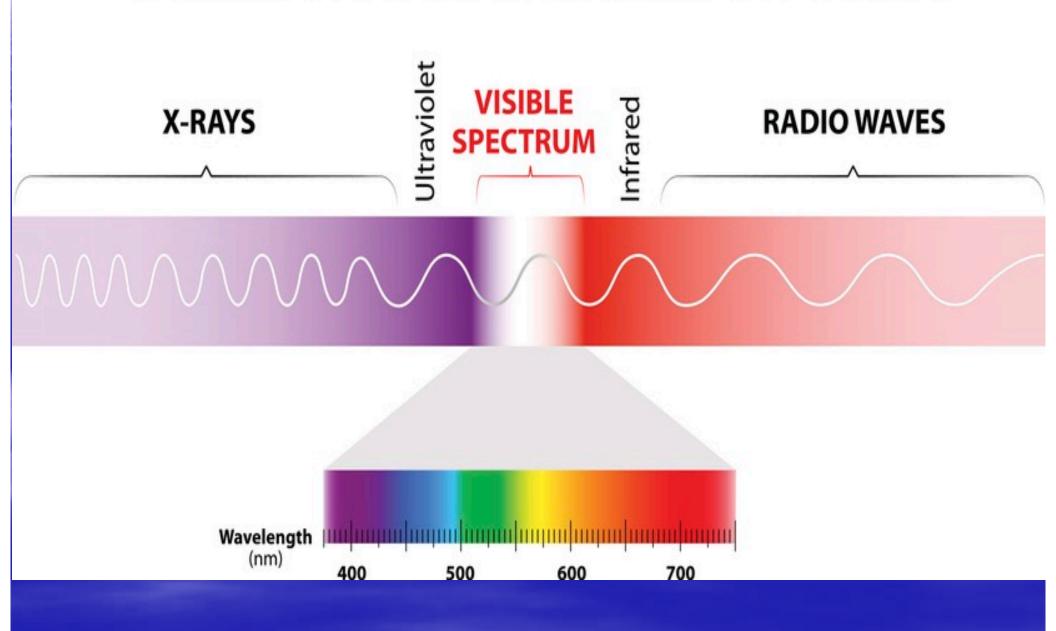
https://www.intechopen.com/books/recent-advances-in-the-biology-therapy-and-management-of-melanoma/melanoma-epidemiology-genetics-and-risk-factors





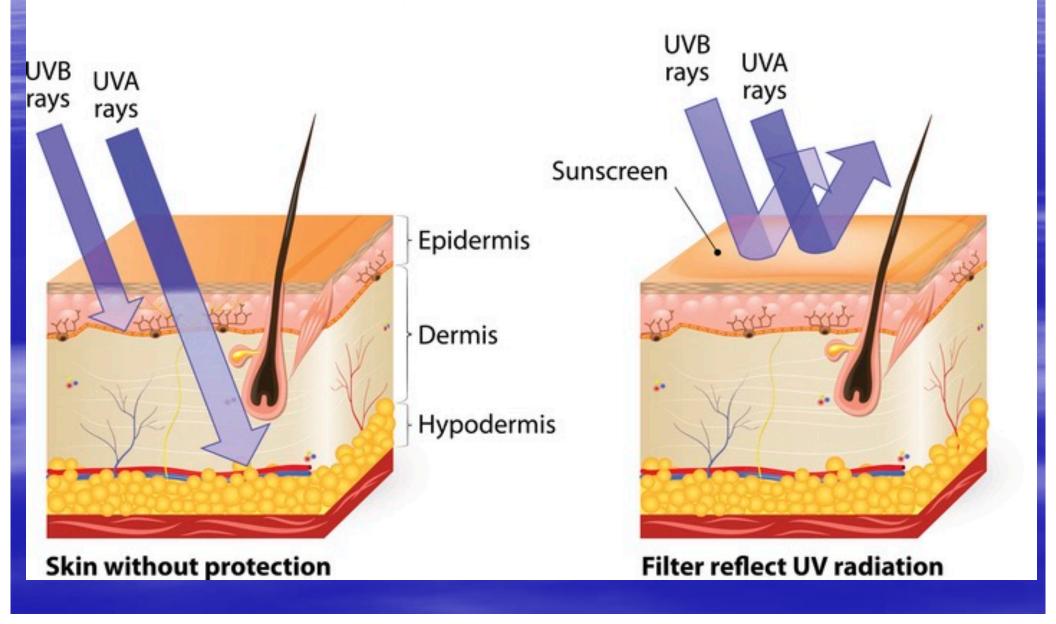


VISIBLE AND INVISIBLE LIGHT





UV penetration into the layers of the skin





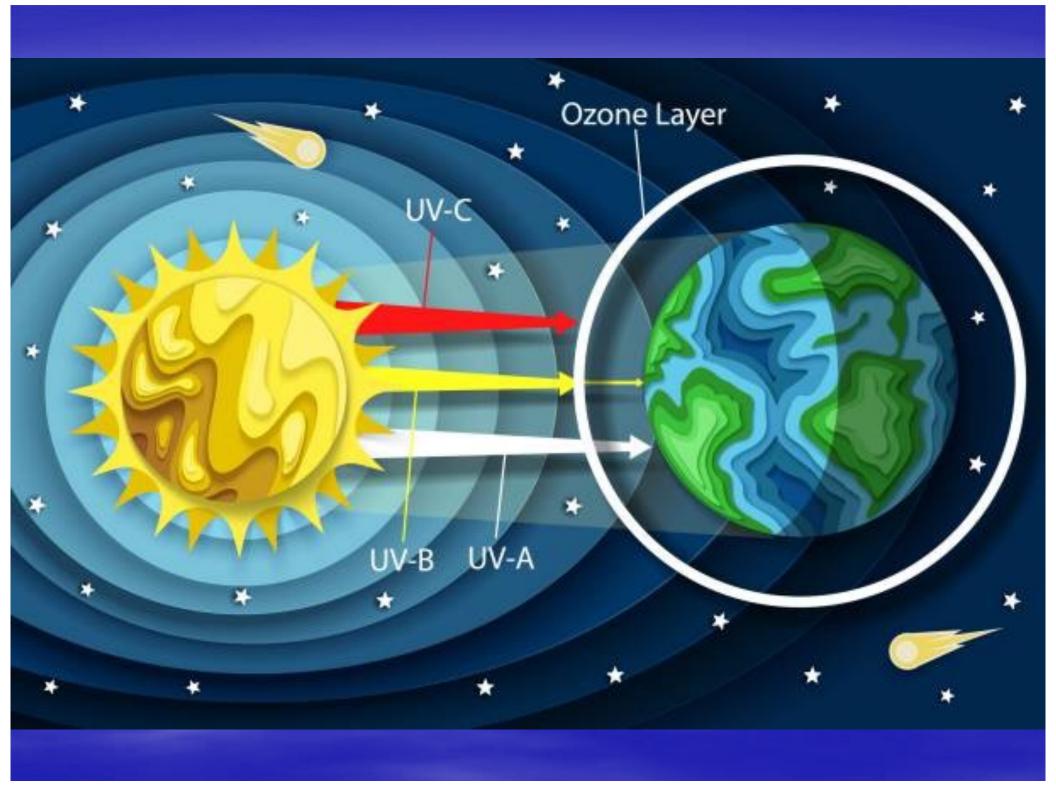












Make a List

RISKS

Sunburn

Skin Aging

Skin Cancer

Damage to

Immune System

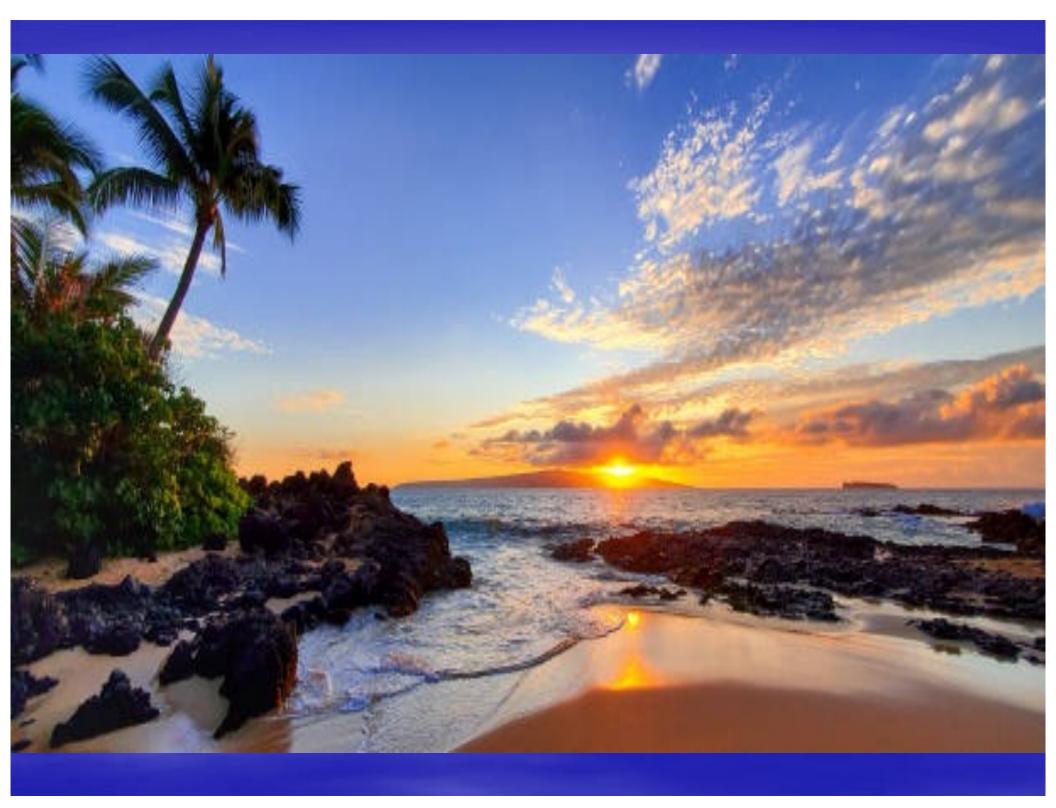
Eye Injuries

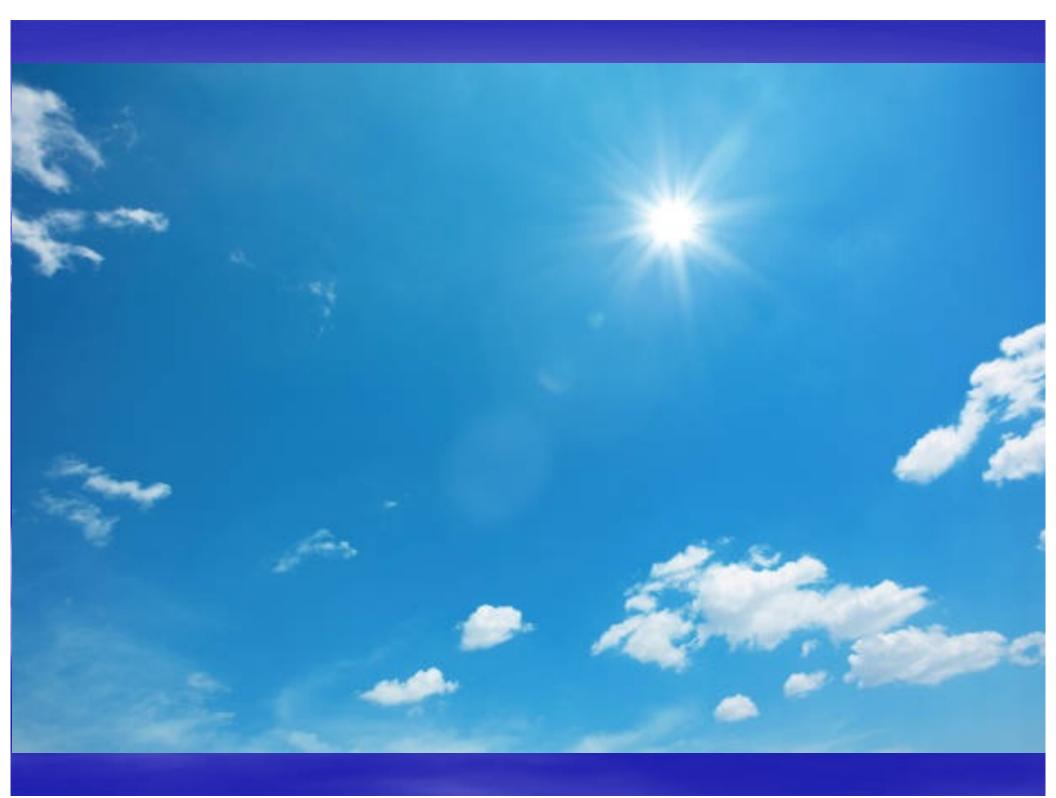
BENEFITS

Fashion

Vitamin D

Mental Health

















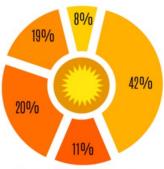
SUN PROTECTION INFOGRAPHIC

Places prone to sunburn

Strongly burns
 Medium burns
 Slightly burns



Foods that promote tanning

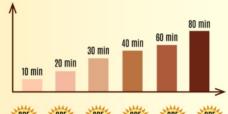


- Melon
- Carrot
- Watermelon
- Apricot
- Seafood Tomatoes
- Spinach Asparagus

Tomatoes, sweet potatoes, cantaloupe and apricots. Like carrots, these carotenoid rich fruits and veggies improve your skin's color while providing other health benefits



Recommended time for tanning







Some people think about sun protection only when they spend a day at the lake, beach, or pool. But sun exposure adds up day after day, and it happens every time you are in the sun.

EMERGENCY HOSPITAL

Types of protection from the sun















Hat, sunglasses

Apart from skin damage, sun exposure also damages the eyes. This can lead to cataracts later in life. Wear sunglasses with 100% UV Protection to protect the eyes.

Water

UV-B, the frequency range of ultra-violet light that causes sunburn, is absorbed by water but you need a few metres of it to provide adequate protection.

Sunscreen

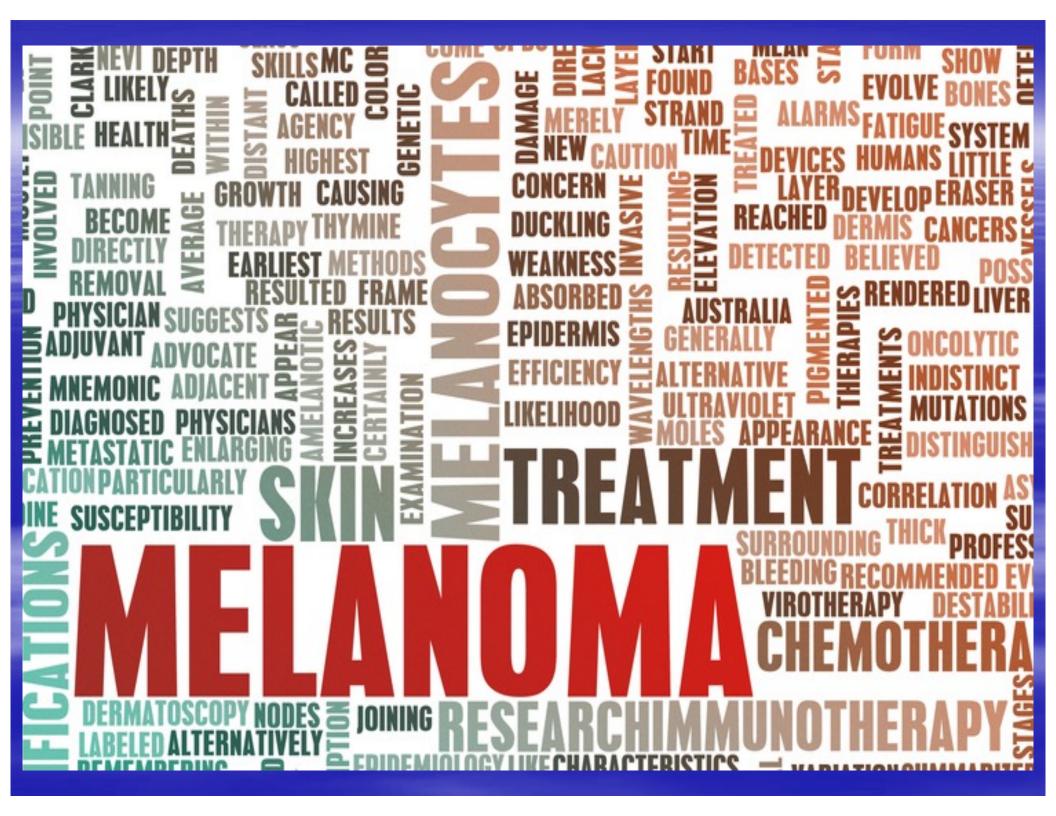
The Sun Protection Factor (SPF) of a sunscreen is used to determine how effective it is in protecting the skin from the sun's UV rays. Use a sunscreen with at least SPF 15 or higher.

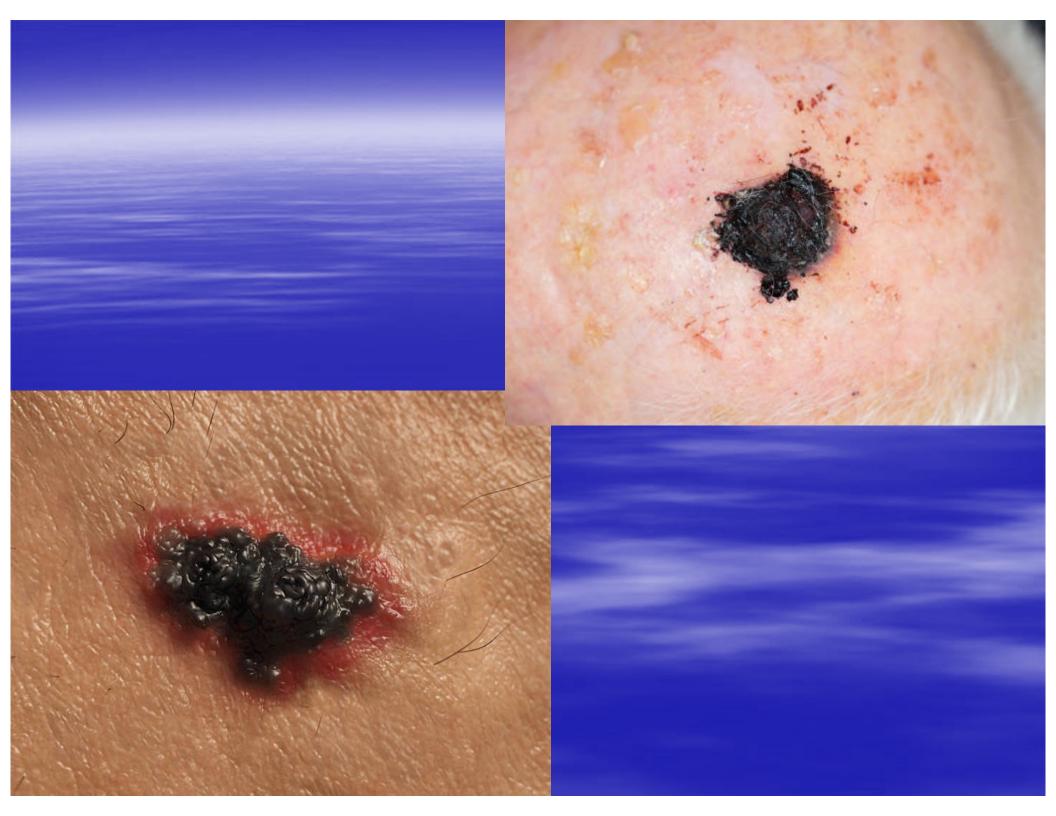
Right time

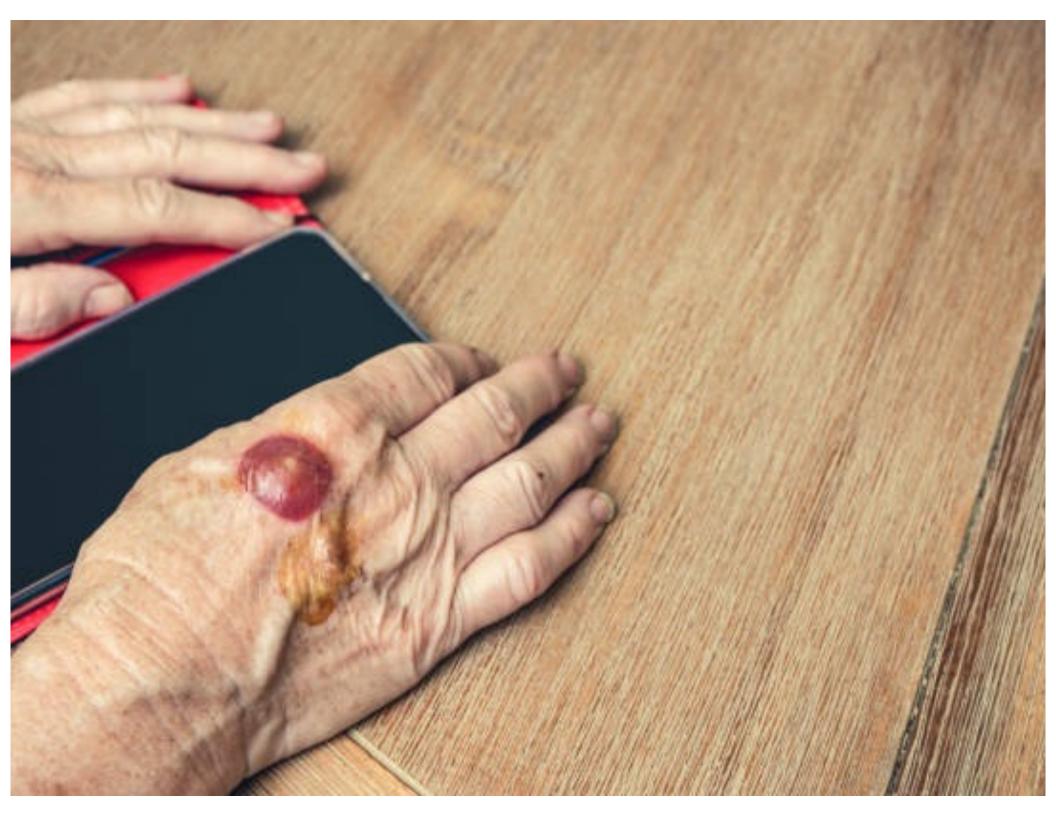
The sun's rays are strongest between 10 am and 4 pm and it is important to limit sun exposure during this time. Even if the days are cloudy or cooler, UV rays remain strong and it is best to plan indoor activities during these hours.

Shadow

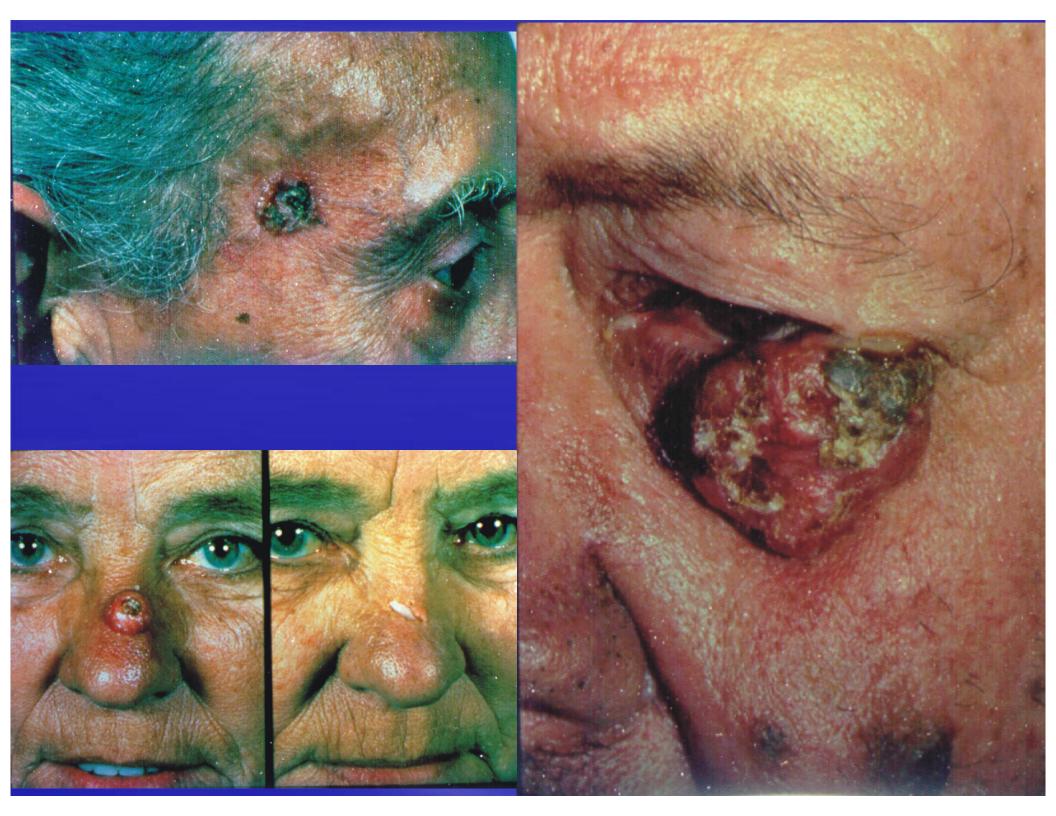
A simple but effective way to determine when to stay out of the sun is the shadow rule: Seek shade if the shadow is short.









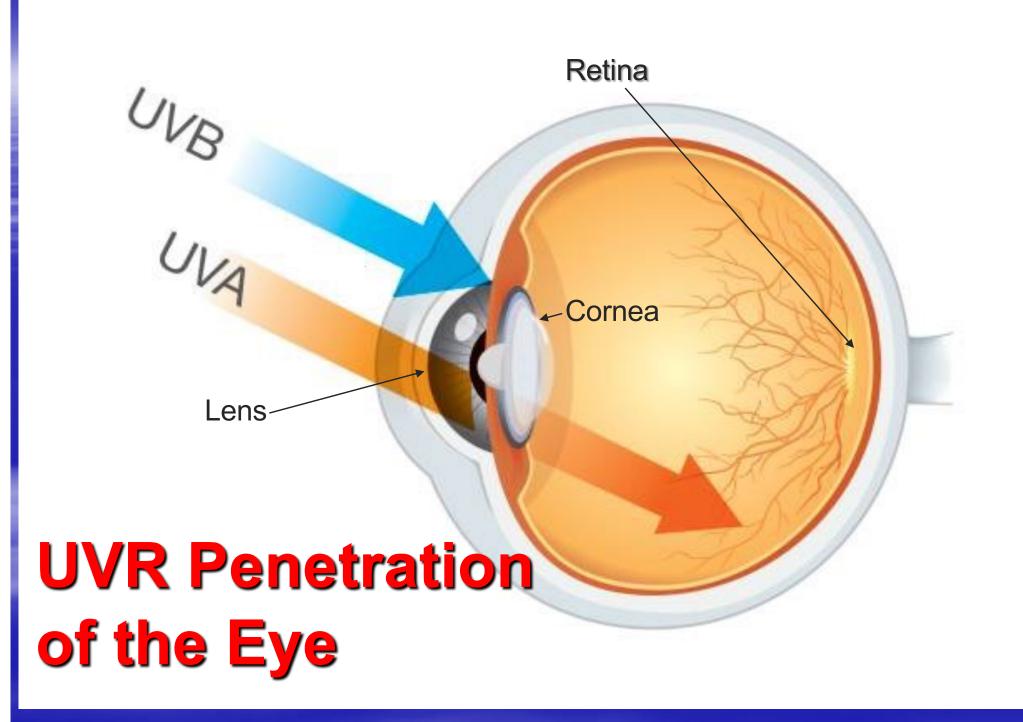




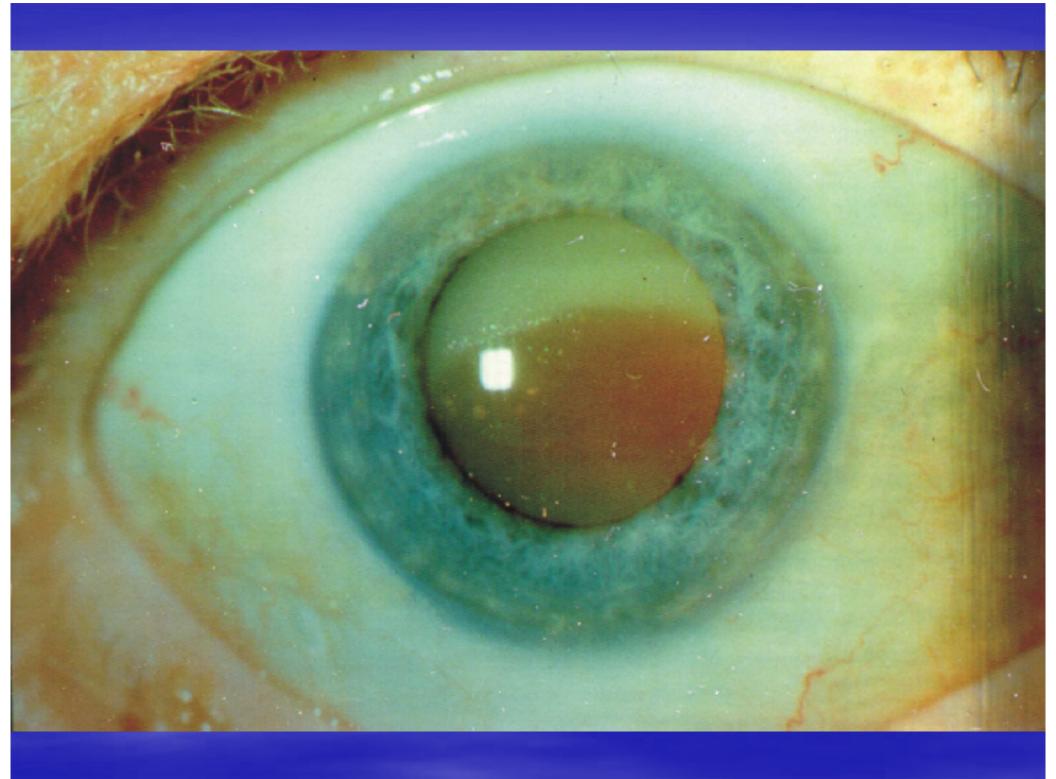




















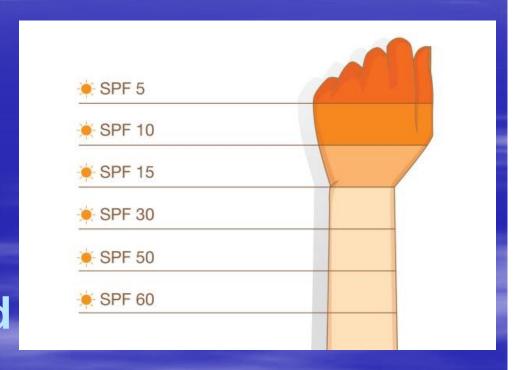


SPF



SPF 5 to 60 and beyond

Sun Protection Factor



MED: Minimum Erythemal Dose

SUN SCREEN



SUNSCREEN



USE SUNSCREEN EVEN ON CLOUDY DAYS



I IN 5 PEOPLE DO NOT USE SUNSCREEN AND WILL BE DIAGNOSED WITH SKIN CANCER IN THEIR LIFETIMES

PROTECT AGAINST:

UVB SUN RAYS WHICH CAUSE REDNESS AND BURNING UVA SUN RAYS
WHICH CAUSE SKIN
CANCER AND PREMATURE
SKIN AGING



USE SPF 30 OR HIGHER. THE HIGHER THE SPF. THE GREATER THE PROTECTION IF YOU'VE HAD SKIN CANCER OR A PRE-CANCER. OPT FOR SPF 45 OR HIGHER.

WHO NEEDS TO WEAR SUNSCREEN?

100% EVERYONE NO ONE IS IMMUNE TO SKIN CANCER.



NEVER TOO LATE.
IT'S NEVER TOO LATE TO
START WEARING SUNSCREEN

USE SUNSCREEN. YOUR SKIN WILL THANK YOU FOR IT













SEEK! out shade ? SLIP! on a shirt ATA SLAP! on a hat 👄 & sunglasses SLOP! on sunscreen ®









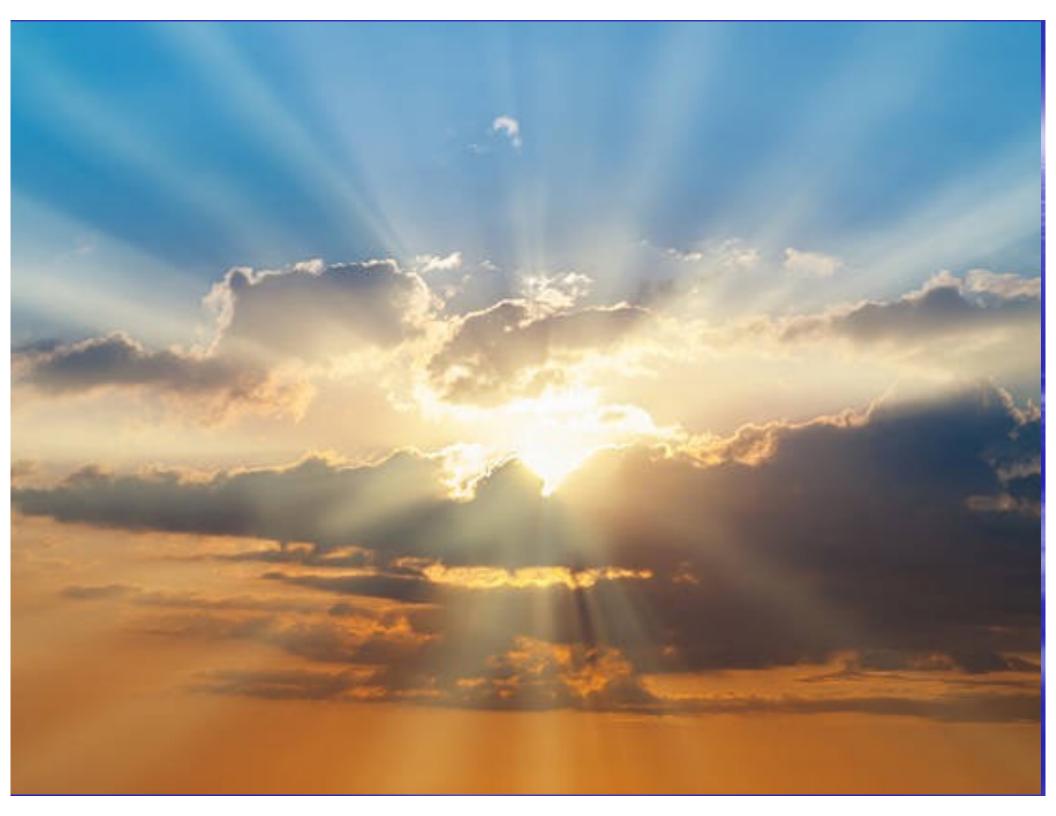






"SUN SAFE" BEHAVIOR REVIEW

- AVOID EXPOSURE BETWEEN 10 a.m. AND 3 p.m.
- WEAR SUNSCREEN AT LEAST 15 SPF
- WEAR SUN PROTECTIVE CLOTHING
- WEAR PROPERLY CONSTRUCTED
 SUNGLASSES WITH MAXIMUM UV PROTECTION
- AVOID TANNING BEDS
- SELF-SCREEN



Resources:

AMERICAN CANCER SOCIETY AMERICAN ACADEMY OF DERMATOLOGY **ISTOCK PHOTOS** KINGWOOD EMERGENCY HOSPITAL NATIONAL FARM MEDICINE CENTER O.U. COLLEGE OF OSTEOPATHIC MEDICINE O.S.U. OPHTHALMOLOGY DEPARTMENT DIVISION OF SAFETY AND HYGIENE RESOURCE CENTER NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

