Skin cancer is the most commonly diagnosed cancer in the United States, and rates have been rising for the past 30 years. An estimated 108,420 invasive skin cancers will be diagnosed in the U.S. in 2020, and an estimated 100,350 of these cases will be melanoma, the most serious and deadliest form of skin cancer. Additionally, 95,710 cases of non-invasive melanomas and millions of cases of basal (BCC) and squamous cell (SCC) skin cancers will also be diagnosed in 2020. In total, 11,480 men and women are expected to die of skin cancer this year, and 6,850 of those deaths will be from melanoma.

The costs associated with skin cancer exceed $8 billion each year – $3.3 billion of that total is for melanoma treatment.

Three Types of Skin Cancer

There are three main types of skin cancer:

1. **Melanoma** – begins in the melanocytes and is the deadliest form of skin cancer.
2. **Squamous cell cancers** – starts in the squamous cells of the skin and typically appear on sun-exposed areas.
3. **Basal cell cancers** – begins in the basal cell layer of the skin and grow slowly and rarely spread to other parts of the body.

Risk Factors for Skin Cancer

Exposure to ultraviolet (UV) radiation, in any form, can lead to DNA damage to skin, resulting in short-term adverse effects such as sunburn, eye damage, fainting, and suppression of the immune system. The damage of UV radiation is cumulative over an individual’s lifetime. Repeated exposure can result in long-term effects such as premature aging of the skin, wrinkles, solar keratosis (scaly growth on the skin), permanent eye damage, and skin and ocular cancers.

The two types of UV radiation that cause the most damage to skin are:

- **UVA** – The most common kind of UV light which penetrates below the top layer of skin. Wavelength ranges from 315 to 400 nanometers (nm).
- **UVB** – UV light which does not penetrate as deeply as UVA rays, but still damages the skin. Wavelength ranges from 280 to 315 nm.

Other risk factors include:

- Use of indoor tanning devices
- Fair skin, freckling, and/or light hair
- Presence of atypical, larger, or numerous (more than 50) moles
- Personal or family history of skin cancer, especially melanoma
- Older age
- Weakened immune system
- Smoking
- Long-term skin conditions, rare inherited conditions, and certain treatments for some medical conditions.
Prevention of Skin Cancer

Avoiding exposure to UV light is the best way to prevent skin cancer.\(^9\) This can be done by:\(^4,9\)

- Avoiding indoor tanning devices.
- Seeking shade when outdoors in the sun, especially between 10 a.m. and 4 p.m.
- Wearing sun-protective clothing, such as long sleeves, pants, hats, and UV protective sunglasses.
- Using broad spectrum sunscreen with a SPF of 30 or greater to exposed skin.

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