

# NEOMED DERMATOLOGY NEWSLETTER: JULY 2022

## "Skin Cancer and Skin Cancer Mimics"

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### OVERVIEW

This newsletter will describe various types of skin cancer and highlight the differences from commonly-confused benign conditions.



### THE LINEUP

- Melanoma
- Basal Cell Carcinoma
- Squamous Cell Carcinoma
- Keratoacanthoma



#### Melanoma

- Aggressive tumor of melanocytes with a significant risk of metastasis
- S-100 is the tumor marker for malignant melanoma
- ABCDEs: Asymmetry, Border irregularity, Color variation, Diameter > 6mm, Evolution over time
- Depth of invasion is the most important prognostic feature



#### Basal Cell Carcinoma

- Most common skin cancer
- Locally destructive, rarely metastasizes
- Presents as a pink pearly papule or plaque with telangiectasia
- Most commonly presents in sun-exposed areas of body

#### Keratoacanthoma

- Rapidly growing, may spontaneously regress
- Presents as a dome-shaped nodule with keratin-filled center
- Resembles squamous cell carcinoma



#### Squamous Cell Carcinoma

- Second most common skin cancer
- Presents as erythematous scaling plaque
- Actinic keratosis is a precursor to squamous cell carcinoma
- Can invade or metastasize (less common)
- Risk factors include ultraviolet exposure, radiation, immunosuppression, HPV, chemical exposure (arsenic), and chronic wounds or scars

# Skin Cancer Prevention

## The Importance of Sun Protection

- Most skin cancers are caused by excessive exposure to ultraviolet (UV) rays
- Protection from UV rays is important throughout the year
- When UV Index is 3 or higher, protect skin from sun exposure

## Ways to Protect Skin From Sun Exposure

- Clothing
  - Full sleeves, long skirts or pants, any cover-up, dark colors
- Shade
  - Stay in the shade (under the umbrella, tree, shelter)
- Hats
  - Tightly woven fabric protects the most from sun exposure
- Sunglasses
  - Reduces the risk of cataracts and damage to the thin skin around the eyes
- Sunscreen
  - Blocks UVA and UVB rays

## The Importance of Sunscreen SPF

- The application of sunscreen is important for the prevention of skin cancer
- Sun Protective Factor (SPF) determines the amount of time it takes for the skin to redden from UVB rays after applying sunscreen
  - SPF 15 or higher is recommended for daily use

## What to Look for in a Sunscreen

- Broad spectrum
  - protects from UVA and UVB rays
- SPF 15 or above
  - everyday, occasional exposure
- SPF 30
  - outdoor activities, extended exposure

## The Two Types of Sunscreens: Which One to Choose?

- Physical Sunscreens:
  - Mineral sunscreen
  - Titanium dioxide and zinc oxide
  - Block and scatter UV rays before skin penetration occurs
- Chemical Sunscreens:
  - Avobenzone
  - Octisalate
  - Absorb UV rays before skin damage occurs

## How Much Sunscreen and How Often Should You Reapply Sunscreen?

- For effective protection, one ounce of sunscreen should be applied to the entire body
- Sunscreen should be reapplied every 2 hours if there is long-term sun exposure

# Practice Quiz

NAME THE DISEASE



All answers will be posted on the DIG Instagram Page (@neomeddermatology)