

- Screening for, diagnosing, and treating skin cancer is...
  - One of the most *important* tasks your supervising physician performs.
  - One of the most *common* tasks performed.
- Clinical support staff members like <u>you</u> play a vital role in this process.

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### Skin Cancer The "big three" skin cancers are... Basal Cell Carcinoma "Non-Melanoma Skin Cancer" (NMSC) Melanoma

## Basal Cell Carcinoma

### Skin Cancer

### **BASAL CELL CARCINOMA**

- Background
  - Most common cancer (of any type) in the world.
    - >1,000,000 occur every year in the United States alone.
  - 75-80% of skin cancers are Basal Cell Carcinomas.

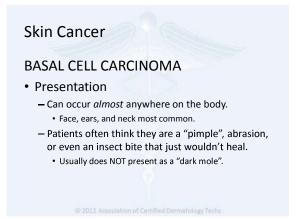
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### Skin Cancer

### **BASAL CELL CARCINOMA**

- Risk Factors
  - Ultraviolet Light
  - Fair Skin
    - Inability to tan
    - Light-colored eyes
    - Light-colored hair
  - Advanced Age

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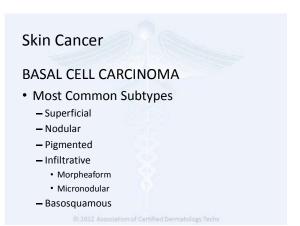












### **BASAL CELL CARCINOMA**

- Prognosis
  - Often referred to as "the best kind of skin cancer to have".
    - Metastasis is exceedingly rare (<1%).
  - Tend to grow very slowly.
  - Eventually will destroy surrounding tissue if left untreated.
    - Vital structures such as the eyes, ears, and nose are particularly vulnerable to damage and/or disfigurement.

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### Skin Cancer

### SQUAMOUS CELL CARCINOMA

- Background
  - Second in frequency behind Basal Cell Carcinoma.
    - Est. 200,000 diagnosed annually in United States alone.

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### Skin Cancer

### SQUAMOUS CELL CARCINOMA

- Risk Factors
  - Ultraviolet Light
  - Fair Skin
  - Advanced Age
  - Actinic Keratoses
  - Immunosuppression
  - Radiation Exposure
  - Burn Scars
  - Human Papilloma Virus

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### Skin Cancer

### **SQUAMOUS CELL CARCINOMA**

- Presentation
  - Can occur almost anywhere.
    - Face, ears, dorsal hands, and forearms most common.
    - SCC can also occur on the oral mucosa.
    - SCC on legs is not uncommon in elderly females who used to play golf, tennis, or sunbathe.
  - Often presents as a non-healing, scaling or crusting "sore" that just doesn't go away.

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### SQUAMOUS CELL CARCINOMA

- Most Common Subtypes
  - Superficial
    - aka, "Bowen's Disease" or "SCC In Situ"
  - Keratoacanthoma-type
  - Typical SCC often classified by "differentiation"
    - Well-differentiated (least atypical)
    - Moderately-differentiated
    - Poorly-differentiated (most atypical)

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### Skin Cancer

### SQUAMOUS CELL CARCINOMA

- Prognosis
  - SCC does have a real potential to metastasize!
    - However, the overwhelming majority *do not*.
  - The greatest risk of metastasis occurs in....
    - Very deep lesions (extending to bone, muscle, or nerve tissue).
    - Immunosuppressed patients.
    - $\bullet \ \ Lesions \ which \ are \ "poorly-differentiated".$
    - Lesions arising within a scar (e.g., "burn scar").
    - Those which arise on the lip (~14%).

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### Skin Cancer

### **Most Common NMSC Treatments**

- -Traditional Excision
- -Mohs Surgery
- -Electrodessication and Curettage
- -Topical Chemotherapy
- -Radiation Therapy (aka, "XRT")
- -Erivedge® (BCC Only)

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# Melanoma De 2012 Association of Certified Dermatology Techs

### **MELANOMA**

- Background
  - —To the public, it's the most "familiar" of all skin cancers.
    - Many mistakenly believe that *all* skin cancers are "melanoma".
  - -Even though it accounts for only 5% of skin cancers, it is <u>responsible for nearly 80% of skin cancer deaths!</u>

### Skin Cancer

### **MELANOMA**

- Facts
  - The ACS estimates over 75,000 new cases of melanoma are diagnosed every year.
    - Over 9,000 will die!
  - -The overall lifetime risk of melanoma:
    - 1 in 50 for whites.
    - 1 in 200 for Hispanics.
    - 1 in 1,000 for blacks.

### Skin Cancer

### **MELANOMA**

- Risk Factors
  - Fair Skin
  - Light-Colored Eyes
  - Red or Blonde Hair
  - Presence of > 100 Nevi
  - Any Dysplastic Nevi
  - Large Congenital Nevus

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### Skin Cancer

### **MELANOMA**

- Risk Factors (cont.)
  - Personal History of Melanoma
    - BCC/SCC do not turn into melanoma!
  - Family History of Melanoma (1° Relative)
  - Xeroderma Pigmentosum
  - Certain Gene Mutations (e.g., "P16")
  - **-ULTRAVIOLET LIGHT!!**

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### Skin Cancer

### **MELANOMA**

• Risk Factors (cont.)

### -ULTRAVIOLET LIGHT!!

- Both chronic and intense intermittent exposure increase melanoma risk.
  - Just <u>one</u> blistering sunburn during childhood can *double* chance of melanoma later in life!
- Tanning beds, and even PUVA and UVB in dermatology office can increase risk.

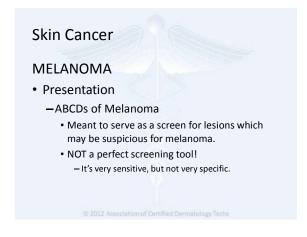
### Skin Cancer

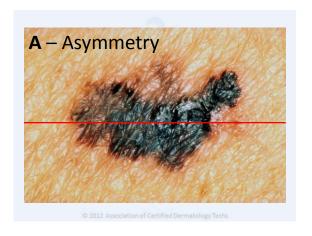
### **MELANOMA**

- Presentation
  - -Can occur anywhere on the body.
    - Slightly more common on the legs in women.
    - Slightly more common on the back in men.

### **CAN OCCUR ANYWHERE!!**

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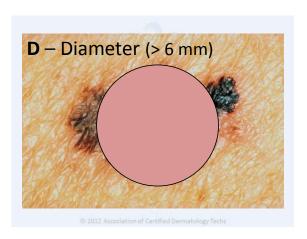












### **MELANOMA**

- Presentation
  - -There will always be exceptions to the rule!
    - Amelanotic melanoma is the most notable.
      - Have no pigment, therefore <u>aren't</u> dark.
      - Very difficult to diagnose using traditional ABCD criteria
        - » However, screening techniques used for BCC/SCC can help to discover them.

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### Skin Cancer

### **MELANOMA**

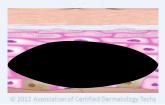
- Presentation
  - The majority of melanomas do not arise from within a mole.
    - All lesions should be monitored, but melanoma more likely to be found in *newly-forming* lesions.
    - Many patients think moles "must" be raised/elevated.
       If only raised/elevated lesions are monitored, then melanoma in its earliest stages can be missed.

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### Skin Cancer

### **MELANOMA**

- Most Common Subtypes
  - Superficial Spreading Melanoma



### Skin Cancer

### **MELANOMA**

- Most Common Subtypes
  - Nodular Melanoma



### Skin Cancer

### **MELANOMA**

- Most Common Subtypes
  - "Growth Pattern"
    - Superficial Spreading Melanoma
    - Nodular Melanoma

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### Skin Cancer

### **MELANOMA**

- Most Common Subtypes
  - Level of "Invasion"
    - Melanoma In Situ
      - $\boldsymbol{\mathsf{-}}$  Confined to the epidermis  $\mathit{only}$  .
    - "Invasive" Melanoma
      - Any melanoma which isn't "in situ".
        - » Melanoma which has moved beyond the epidermis and has "invaded" at least the underlying dermis.

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### Skin Cancer MELANOMA • Other Common Subtypes —Lentigo Maligna • Simply a melanoma in situ which formed within a preexisting "lentigo".

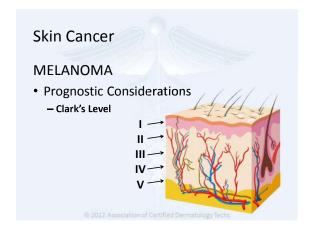
- Lentigo Maligna Melanoma
  - "Invasive" version of a "Lentigo Maligna".
- Acral Lentiginous Melanoma
  - Name given to melanoma which arises on the palms, soles, beneath the nails, or on the mucosal surfaces.

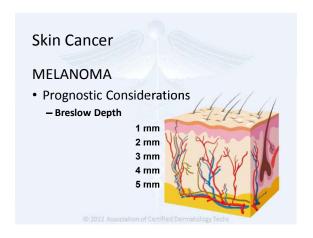
### Skin Cancer

### **MELANOMA**

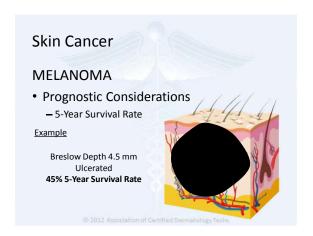
- Prognosis
  - Good News
    - The vast majority of melanomas are easily excised and never metastasize.
  - Bad News
    - A significant minority of patients who are diagnosed with melanoma will have metastasis and eventually die.

      Of 75,000 and in the language of 2000 all the
      - Of 75,000 patients diagnosed, over 9,000 will die.
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### Skin Cancer Melanoma Treatment -Surgical • Margins always taken. - As little as 0.5 cm to as much as 2 cm. • Sentinel Lymph Node (SLN) Biopsy? - Blue dye and radioactive "technetium-99" solution injected into the tissue surrounding melanoma site. - Draining node(s) are removed and tested for any sign of metastatic melanoma.

