## Malignant Tumors of the Lids and Adnexa

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# Malignant Tumors: Basal Cell Carcinoma

- Description

   Locally invasive proliferation of pluripotent epidermal basal cells
  - Most common skin cancer and most common eyelid malignancy Slow growing with little metastatic potential
- Slow growing with incle measure
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   Usually on the lower eyelid
   Non-tender ulceration
   Irregular boarders
   Possible keratinization
   Destruction of eyelid architecture
   Nodule to the new poor life appearance

  - Destruction of eyelid architecture
     Nodular type pearl like appearance with dilated blood vessels on surface
     Ulcerative type: central ulcer with raised pearly edges
     Sclerosing (morphea) type: lateral, hardened, infiltration beneath the epidermis. May be confused with chronic bleplartis



# Malignant Tumors: Basal Cell Carcinoma

### • Risks

- Common in the elderly Risk factors include fair skin and high cumulative sun exposure
- Clinical Management
  - Diagnosis confirmed with biopsy • Excision is the common removal technique
  - Excision is the common removal technique
    Mohs micrographic surgery removes the tumor along with a thin layer of surrounding tissue. The surround is immediately examined for tumor cells and the procedure repeated if any are found. Highest cure rate at 98%.
    Recurring tumors tend to be more invasive and difficult to treat



# Malignant Tumors: Basal Cell Carcinoma





Morpheaform BCC

## Malignant Tumors: Squamous Cell Carcinoma

- Description
   Proliferation of invasive cells arising from the squamous cell layer
   of the epidermis
   were application of from existing actinic keratosis or
   keratoacanthoma
   Less common, but more aggressive than basal cell carcinoma
   Lymph node metastasis in 20% of cases
- Lymph node metatasis in 20% or Lases
   Clinical Appearance
   Variety of appearances and may be difficult to distinguish from BCC
   Salay with fregular boarders
   Absence of surface vasculature
   Extensive keratinization usually present
   Lesions may bleed
   Nodular type: keratinized nodule that develops erosions and
   fissures
   Ulcenating type: everted boarders with a red, well defined base
   Cutaneous horn: invasive growth underlies keratin horn



## Malignant Tumors: Squamous Cell Carcinoma

### Risks

- · Most common occurrence is in the elderly • Risk factors include fair skin, sun exposure, and immune suppression
- Clinical Management
- Can be fatal if left untreated (2,500 annual deaths in USA)
- Confirmed with biopsy Mohs micrographic surgery: highest cure rate
  - 94-99%
- Other options include standard scalpel excision, cryotherapy, and radiosurgery, and local radiation



## Malignant Tumors: Squamous Cell Carcinoma





## Malignant Tumors: Sebaceous Gland Carcinoma

Description

- Slow growing tumor
   Arises from the meibomian glands, glands of Zeis, or sebaceous
   glands in the caruncle
   More likely to occur on the upper lid where glands are more
   numerous
   Clinical Appearance

- No pathognomonic presentation
   Initially can appear similar to chalazion or chronic blepharitis Yellowish material may be seen within the tumor
  Nodular type: hard, painless, immobile nodule similar to
- chalazion
- Spreading type: thickened lid margin, loss of lashes, similar to chronic blepharitis



### Malignant Tumors: Sebaceous Gland Carcinoma

### Risks

- Females in their 60's and 70's most commonly affected Youngest reported case was in a 3 year old
- Clinical Management
   Because of appearance, diagnosis is often delayed

  - Mortality rate is 5-10%
    Large (1cm) and non-resolving chalazion should be suspected Cryotherapy and surgical excision are the standard treatments
  - Recurrence is as high as 33% Little documentation for Mohs, but possibly lower recurrence rate



# Malignant Tumors: Melanoma

- Description
   Epidermal and dermal proliferation of transformed and invasive melanocytes
  - Arises from existing newus, lentigo maligna (pre-malignancy), or de novo
     High potential for metastasis
     Potentially fatal (represents greater than 2/3 of all skin cancer deaths)





# Malignant Tumors: Melanoma

### Risks

- Most common in elderly individuals with light skin History of sun damaged skin
- Clinical Management
  - Question any new, changing, or irregular appearing lesions
    Melanoma confirmed with biopsy
  - Wide surgical excision with up to a 1 cm margin for confirmed malignancy
     Local lymph node dissection if malignancy is more than 1.5 mm deep

  - Prognosis and recurrence is tied to size and any metastasis of original lesion
  - · Patients should be followed closely following surgery



# Malignant Tumors: Melanoma



# Malignant Tumors: Merkel Cell Carcinoma

### Description

- Very rare and fast growing form of skin cancer

- Highly mailing nat nad potentially fatal
   Arises from Merkel cells located in the basal layer of the epidermis
   Normal cells thought to play a regulatory role in epidermal growth

### Clinical Appearance

- Frequently involves the upper eyelidRed, purple, or violet colored, well defined nodule
- Wide variation in size, from less that 2cm to
- larger than 15cm Overlying skin is intact



## Malignant Tumors: Merkel Cell Carcinoma

- Risks
   Average age of diagnosis is 75
   20x more likely to occur in whites than blacks
   No gender predilection
   Risk factors include sun exposure and immune
   suppression
   Clinical Monagement

### Clinical Management

- Many have metastasized by the time they are diagnosed
   CT and/or MRI imaging used to evaluate systemic spread

- Primary tumor removed with a wide excision (margins up to 3cm if possible)
   Chemotherapy and/or radiotherapy depending on spread
   2 year mortality rate of 30-50%





# Basic Biopsy of a Nodular lid Lesion



|  | Thank you! |  |
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