

## **Disorders of the Eyelid**

**Eissa Hanna, MD**

### **Course Description**

Review eyelid and orbit anatomy. Review inflammatory, infectious, malignant and traumatic disorders of the eyelid.

### **Course Learning Objectives**

- Review anatomy and microanatomy of eyelids and basic orbit anatomy
- Review eyelid inflammation
- Discuss 2 eyelid infections
- Explain eyelid malignancy and when to refer
- Explain eyelid trauma

Course Outline (50 minutes):

- Review of anatomy (5 minutes)
  - Layers of eyelid
    - Adnexa
    - Lashes
    - Palpebral conjunctiva
    - Main goal of the eyelid is to protect the globe and secrete, distribute and drain tears
  - Glands of eyelids and purpose
    - Meibomian
      - Tarsal plate and contribute to oil layer of tears
    - Zeis
      - Sebaceous glands that open to eyelash follicle
    - Moll
      - Modified sweat gland open to eyelash follicle
    - Wolfring
      - Accessory lacrimal gland
- Review of inflammation: present clinical photos and cases to discuss the bellow topics (20 minutes)
  - Chemical: acute chronic
    - Contact dermatitis
      - Signs and symptoms along with differential diagnoses
    - Cement case

- 32 year old male presents to clinic with injury to eyelid from cement into eye and eyelid from work-related injury
    - External photos
    - Discuss treatment options
    - Discuss medications and surgical interventions
    - Review follow up care
  - Brimonidine
    - Discuss side effects of brimonidine
    - Clinical case report of over-exposure of brimonidine
    - Explain slit lamp evaluation and case history
    - Review treatment plan and follow up care
- MGD/DES
  - Hygiene
    - Discuss hypochlorous acid and other cleansing products
  - Doxycycline
    - Review of mechanism of action
    - Review dosages
    - Discuss who to limit the use with (children, sun exposure, pregnant women)
  - IPL
    - Discuss what IPL is and how it works to help with rosacea, eyelid telangectasia and demodex
- Autoimmune
  - SJS
    - Common eyelid issues and malformations
  - Ocular cicatricial pemphigoid
    - Discuss common eyelid issues and treatment options
- Review of infections: present clinical photos and cases to discuss the bellow topics (10 minutes)
  - Eyelids: bacterial vs viral
    - Discuss how to identify differences between bacterial and viral
    - Topical treatments vs oral treatments
      - What to use when
    - Initial evaluation and treatment
      - Detailed case history
      - Review of symptoms such as color of discharge, type, days of infection, and other correlating symptoms
      - When to use antibiotics vs antivirals vs oral treatments
  - Orbit
    - Oral treatment, systemic treatment (IV vs Oral)
      - When does an eyelid condition warrant IV medication or hospitalization

- Discuss MRSA and the role it plays
  - Surgical
  - Initial evaluation and treatment
- Review of tumors and malignancy: present clinical photos and cases to discuss the bellow topics (5 minutes)
  - Benign:
    - Papilloma
    - Seborrhea
    - Xanthelasma
    - Cysts
      - Inclusion cysts
      - Hydrocystoma: eccrine, appocrine
- Malignant: present clinical photos and cases to discuss the bellow topics (5 minutes)
  - Basal cell
    - Very common, especially in older patients and areas of high UV exposure
      - Review several photos and videos
  - Squamous cell
  - Sebaceous cell carcinoma
  - When to refer for surgery and how quickly
  - Discuss what eyelid cancers must be treated with urgency
- Trauma: present clinical photos and cases to discuss the bellow topics (5 minutes)
  - Abrasion
    - Eyelid trauma from fingernail
    - Eyelid trauma from tree branch
  - Foreign body
    - Metal in eyelid
    - Nail gun in eyelid
  - Lacerations
    - Work related injury
  - Chemical
    - Battery acid on eyelid
  - Thermal
    - Curling iron burn on eyelid

