

## **Grand Rounds: Think Fast, Diagnose Faster**

2 hours

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### **Description:**

Critical to a clinician's practice is the ability to diagnose and manage unique and interesting presentations of "typical" ocular conditions, or to be able to diagnose a previously un-encountered condition. The following interactive lecture will present patient cases with unique presentations of ocular conditions, including special testing. The course will focus on the clinician's ability to analyze and interpret the unique case presentation and provide appropriate management and treatment options.

### **Learning Objectives:**

- Assess a patient who is suspicious for glaucoma and analyze the necessary testing and provide appropriate management/treatment.
- Assess a patient who has suspicious lid lumps and be able to differentiate between a benign versus a malignant lesion.
- Be familiar with the common laboratory tests that need to be considered for a patient who has an acute onset red eye with associated systemic manifestations.
- Determine the various differential diagnoses for a choroidal nevus, provide the appropriate diagnostic testing and make the necessary treatment/management referrals.
- Assess a patient who presents with an acute onset painful eye providing appropriate differentials and prescribing appropriate treatment/management recommendations.
- Assess a patient who presents with complaints of sudden loss of vision, what tests should be done and possible differentials and treatment options.

### **Outline:**

#### **1. Case presentation:**

##### **Patient who has:**

- **history of trauma to one eye**
- **the development of a traumatic cataract and angle recession glaucoma**

- review of the appropriate testing involved in glaucoma

- including visual fields

- OCT
- review of the patient VF and OCT data
- review of angle recession glaucoma
  - including key diagnostic points
  - associated testing (e.g. gonioscopy)
- review of the treatment options available
  - for a patient who has angle recession glaucoma
  - discussion of treatment of this patient with angle recession glaucoma
  - management of this patient with angle recession glaucoma

## **2. Sudden loss of vision:**

- case presentation
  - patient with sudden loss of vision in one eye
- review of differentials
  - including vein occlusion
  - artery occlusion
  - ischemic optic neuropathy
- diagnostic criteria
  - for the various differentials
  - and the recent treatment options

## **3. Eyelid nevi:**

- development of lid nevi
  - acquired versus congenital
- common forms of lid nevi
  - and their diagnostic appearance
  - and the clinical appearance
- risk of conversion of lid nevi to melanoma
  - key characteristics
    - of a melanoma that is different from a nevi
- treatment options for patients who have developed a lid melanoma

#### 4. Acute conjunctivitis:

- presenting signs and symptoms
  - of a patient with viral conjunctivitis
  - versus bacterial/allergic
- types of conjunctivitis
  - e.g. PCF
  - versus EKC
  - versus bacterial
- point of care testing available
  - for differentiating different types of conjunctivitis
- treatment options for a patient with conjunctivitis
- management options for a patient with conjunctivitis

#### 5. Case presentation:

##### **Patient with CHRPE versus choroidal nevus**

- critical diagnostic criteria
  - for recognizing the differences between various retinal/choroidal pigmentation lesions
    - e.g. CHRPE versus nevus
- review of the patient education
  - to be given to a patient with a CHRPE
- review of the differences between
  - a choroidal nevus versus choroidal melanoma
  - e.g. TFSOM (to find small ocular melanoma)
  - the new diagnostic criteria using enhanced depth imaging via OCT
- risk of conversion
  - of a choroidal nevus to a melanoma
  - and rate of metastatic conversion of melanoma
- what tissues are involved
  - if choroidal melanoma metastasizes

- and risk for mortality

## 6. Case presentation:

### **Patient with an acute onset red eye that has systemic manifestations associated**

- review of the different types of conjunctivitis
- related systemic association e.g.:
  - chlamydia
  - gonorrhoea
  - reactive arthritis
- review of the appropriate lab testing required for red eyes
  - with associated systemic associations
  - e.g. lab testing for
    - chlamydia
    - gonorrhoea
    - reactive arthritis
- appropriate treatment for the associated red eye
  - while patient is obtaining systemic lab testing
- appropriate treatment/management options for patients who have
  - diagnosed systemic condition
  - such as chlamydia

## 7. Q&A and Discussion: