

Oral Pharmaceuticals in Eye Care:

Instructor:

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Course Description:

In this lecture, antiviral and antibiotic medications commonly used to treat diseases of the eye and adnexa will be reviewed in detail. Format for teaching will be by case presentation. The attendee will gain a knowledge base of each medication, appropriate use, and contraindications as well as interactive case presentation using disease states commonly seen in primary eye care settings. A review of allergies and pregnancy and other considerations will also be covered.

Course Objectives:

1. To Review various antiviral medications used to treat the eye and adnexa
2. To Review various antibiotic medications used to treat the eye and adnexa
3. Direct review of cases commonly seen in the eye care provider's office
4. To gain knowledge of various antibiotic and antiviral medications and appropriate uses for treatment of conditions of the eye and adnexa
5. To gain knowledge of contraindications to various medications commonly used to treat conditions of the eye and adnexa
6. To review systemic conditions with ocular effects that require either antiviral or antibiotic medications

Course Outline:

The list below are the cases that will be covered in case report format. These cases will all be used to accomplish the objectives listed above of learning how in a primary care optometric office our service will result in our success. Additional learnings in the areas of pregnancy and education of the patient regarding the drugs prescribed will also be discussed.

1. Considerations in pregnancy
 - a. New FDA Pregnancy risk information
 - b. Old category of risk
 - c. Pregnancy and Lactation Labeling Final Rule
 - d. Pregnancy (including labor and delivery)
 - e. Lactation (includes nursing mothers)
 - f. Females and males of reproductive potential
2. Considerations in education of patients receiving an rx for oral medications
 - a. Importance of following label instructions
 - b. What to eat or not eat with meds
 - c. Correct amount of medication taken at the correct time
 - d. More is not better
 - e. Less is potentially harmful long term
 - f. Health literacy considerations
 - g. Age, state of illness considerations
3. Herpetic Keratitis and Acyclovir, Valacyclovir, Famciclovir and other derivatives
 - A. Subjective history
 - B. Objective findings
 - C. Differential Diagnosis
 - a. Viral conjunctivitis
 - b. Dry eye disease
 - c. Thygesons
 - d. Exposure keratopathy
 - D. Ocular Disease Review
 - E. Treatment of Ocular Disease
 - F. Systemic Disease Review
 - G. Antiviral treatment options
 - H. Treatment of Systemic Disease
 - I. Points of interest in the case
4. Herpes Zoster Ophthalmicus Acyclovir, Valacyclovir, Famciclovir and other derivatives
 - A. Subjective History

- B. Objective findings
 - C. Differential Diagnosis
 - a. HSV
 - b. Chicken Pox
 - c. Blepharitis
 - D. Ocular Disease Review
 - E. Treatment of Ocular Disease
 - F. Systemic Disease Review
 - G. Treatment of Systemic Disease
 - H. Points of interest in the case
5. Dry Eye/ MGD and Omega 3's,
- A. Subjective History
 - B. Objective findings
 - C. Differential Diagnosis
 - D. Ocular Disease Review
 - E. Treatment of Ocular Disease
 - F. Systemic Disease Review
 - G. Treatment of Systemic Disease
 - H. Points of interest in the case
6. Preseptal Cellulitis and Augmentin, Cephalexin, cephalosporins.
TMP, Clindamycin
- A. Subjective History
 - B. Objective findings
 - C. Differential Diagnosis
 - a. Orbital Cellulitis
 - b. Hordeolum
 - D. Ocular Disease Review
 - E. Treatment of Ocular Disease
 - F. Systemic Disease Review
 - G. Treatment of Systemic Disease
 - H. Points of interest in the case
7. Chlamydia and Doxycycline
- A. Subjective History
 - B. Objective findings
 - C. Differential Diagnosis
 - a. HSV
 - b. EKC
 - D. Ocular Disease Review

- E. Treatment of Ocular Disease
 - F. Systemic Disease Review
 - G. Treatment of Systemic Disease
 - H. Points of interest in the case
8. Recurrent Hordeolum and Tetracycline and doxycycline
- A. Subjective History
 - B. Objective findings
 - C. Differential Diagnosis
 - a. HSV
 - b. EKC
 - D. Ocular Disease Review
 - E. Treatment of Ocular Disease
 - F. Systemic Disease Review
 - G. Treatment of Systemic Disease
 - H. Points of interest in the case
9. AMD/ Dementia and Omega 3's and carotenoids
- I. Subjective History
 - J. Objective findings
 - K. Differential Diagnosis
 - L. Ocular Disease Review
 - M. Treatment of Ocular Disease
 - N. Systemic Disease Review
 - O. Treatment of Systemic Disease
 - P. Points of interest in the case