A Case of Sudden Unilateral Vision Loss

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Disclosure:
Nothing to disclose

Course Description:
The discussion of a case of a young, poorly controlled diabetic with unexplained unilateral vision loss. Differentials, imaging, and lab tests are reviewed. Tuberculosis diagnosis, treatment and ocular effects are reviewed.

Course Learning Objectives:
• To review diagnosis of unilateral vision loss
• To review laboratory testing and imaging for unexplained vision loss
• To review Tuberculosis diagnosis, treatment, and ocular effects

Outline:
I. Case History
II. Differentials of diabetes induced VA loss
   a. Macular Edema
   b. Retinal ischemia
   c. Retinal detachment
   d. Neovascular glaucoma
III. Differentials of central scotoma
   a. Ocular disease
   b. Vascular disease
   c. Neurologic disease
   d. Infectious
   e. Malignancy
   f. Nutritional
   g. Rheumatologic disease
   h. Toxin exposure
   i. Genetic disease
IV. Laboratory testing
V. Tuberculosis
   a. Symptoms
i. Pulmonary
ii. Extrapulmonary

b. Pathogenesis
   i. Mycobacterium

c. Epidemiology
   i. Developing world
   ii. HIV

d. Diagnosis
   i. Tuberculin skin test
   ii. QuantiFERON
   iii. Chest X-ray
   iv. Culture

e. Treatment
   i. Latent
      1. Isoniazid
   ii. Active
      1. Rifampicin
      2. Ethambutol
      3. Pyrazinamide
   iii. Side effects

f. Vaccine

g. Prognosis

h. Ocular effects
   i. Uveitis
   ii. Retinal vasculitis
   iii. Serpiginoid choroiditis
   iv. Treatment
   v. Prognosis

VI. References