

Week 6 Assignment

1. River blindness

- a. Pathogen name
 - i. *Onchocerca volvulus*
- b. Type of pathogen (bacterial, viral, fungal, protozoan, helminth or prion)
 - i. Helminth
- c. Body system affected
 - i. Eyes
 - ii. Skin
 - iii. Lymphatic system
- d. Signs and symptoms
 - i. Itching
 - ii. Skin discoloration
 - iii. Nodules under skin
- e. Epidemiology
 - i. Africa, Yemen, Parts of Latin America
 - ii. Transmitted via repeated bites by infected black flies
- f. Disease treatment and prevention
 - i. Treatment: Ivermectin every 6 months
 - ii. Prevention: Vector control; Ivermectin distribution

2. Ocular trachoma

- a. Pathogen name
 - i. *Chlamydia trachomatis*
- b. Type of pathogen (bacterial, viral, fungal, protozoan, helminth or prion)
 - i. Bacterial
- c. Body system affected
 - i. Eyes
- d. One virulence factor
 - i. Intracellular survival
- e. Signs and symptoms
 - i. Itching/irritation of eyes
 - ii. Eye discharge
 - iii. Blurred vision
- f. Epidemiology
 - i. Africa, Asia, Middle East
 - ii. Transmitted via direct contact with infected eye/nose secretions
- g. Disease treatment and prevention
 - i. Treatment: Antibiotics (Azithromycin, tetracycline)
 - ii. Prevention: Improved sanitation, facial cleanliness