

## **Unit One: Introduction and Multicellular Parasites**

*Reading, Homework/Discussion, Case Studies for Exam Essay Components*

### **Some Recommended Lecture Resources**

Both Lectures - Sections of ASM Clinical Microbiology Review: History of Human Parasitology

#### Lecture One:

Wikipedia Sections: Infectious Disease, Nematodes, Filariasis, Onchocerciasis, Loa Loa

CDC/Health Topics A-Z Sections: Lymphatic Filariasis, Onchocerciasis

#### Lecture Two:

Wikipedia Sections: Flatworms, Schistosomiasis

CDC/Health Topics A-Z Sections: Schistosomiasis

### **Homework/Discussion Readings and Assignments**

*These activities will be due at the discussion day for multicellular parasites.*

#### **A. At-Home Writing**

(1) Use the Wikipedia Infection Disease page to list the 5 major human activities that impact infectious disease. These will be a theme all term in terms of analyzing history, current issues, and specific case studies (hint, hint on nature of exam essay questions).

(2) After reading the article, "The History of Schistosomiasis Research and Policy For Its Control," answer the following: Provide 4 specific examples of how war has impacted either our understanding of or policies for dealing with schistosomiasis. In general, why do you think war represents such an important human activity that impacts infectious disease like schistosomiasis? Recommended length - no more than 3 pages, 1.5 line spacing.

#### **B. Discussion/Presentation With Some Turn-In Assignments**

(1) Based on using the internet (ANYWHERE), each student will research and summarize ONE treatment/elimination programs and/or funding sources for either filariasis or onchocerciasis/loa loa. In class, each person will summarize (in 3 minutes) the name/leadership, goals, focus areas, and funding source of/for this organization. Print out the cover page (with your name) for your organization as I will collect these after class.

(2) Based on using the CDC EID or MMWR websites, each student will find ONE article about any lymphatic filariasis or eyeworm-related outbreak anywhere in the world - although some effort will be made to divide topics to avoid repeat presentations. In class, each person will summarize (in 3 minutes) the salient points of the outbreak (where, when, who). Print out the cover page (with your name) for this article as I will collect these after class.

### **Exam Essays Will Cover the Following Case Studies**

*For all, focus on big-picture contents, not technical minutia of the methods. Any of these may be entertained during the discussion day for multicellular parasites and everyone is encouraged to develop questions about these articles for in-class sharing.*

CDC/MMWR: Schistosomiasis/Peace Corps Volunteers

CDC/EID: Helminth Diseases in China: p. 303, Schistosomiasis/Impact/Conclusions Sections

DHHS: Lost Boys/Girls of Sudan

