

DIAGNOSTIC PARASITOLOGY I: INTESTINAL ORGANISMS & ARTHROPODS

DIVISION OF PARASITIC DISEASES AND MALARIA

CENTERS FOR DISEASE CONTROL AND PREVENTION
APRIL 19 —22, 2016 • ATLANTA, GA



U.S. Department of
Health and Human Services
Centers for Disease
Control and Prevention

P.A.C.E.® Course #: 288-003-16
Florida #: 20-513595

Sponsored by:

The Division of Parasitic Diseases and Malaria, Center for Global Health, and the Laboratory Training Team, Laboratory Training and Services Branch, Division of Laboratory Systems, Center of Surveillance, Epidemiology, and Laboratory Services, Centers for Disease Control and Prevention

Location

Centers for Disease Control and Prevention, Atlanta, GA

Faculty

Parasitic Diseases Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, CDC, Atlanta, GA

- **Henry Bishop**, Microbiologist
- **Blaine Mathison, BS, M(ASCP)**, Microbiologist

Course Organizers

- **Laboratory Training Team, Laboratory Training and Services Branch, Division of Laboratory Systems, Center of Surveillance, Epidemiology, and Laboratory Services, Centers for Disease Control and Prevention, Atlanta, GA**
 - *Rebecca Bandea, M.Ed*, Laboratory Coordinator, E-mail: rbandea@cdc.gov
 - *Karen Ching, Ph.D*, Health Scientist, E-mail: kching@cdc.gov

Course Objectives

At the conclusion of this program, the participants will be able to:

- Describe morphologic characteristics of intestinal helminths, intestinal protozoa, and arthropods of public health concern.
- Microscopically detect and identify helminths and protozoa.
- Recognize the common genera and species of medically important arthropods.
- Detect *Cyclospora cayentanensis* using fluorescence microscopy.
- Discuss the process of clearing or staining proglottids with lactophenol cotton blue or India ink.

Description

Diagnosis of most parasitic infections is based upon the morphologic characteristics of eggs and larvae of helminths, cysts and trophozoites of protozoa, and immature and adult arthropods. Therefore, it is necessary to correctly process, examine, detect, and identify parasitic organisms from clinical specimens. During this four-day, intermediate-level, hands-on workshop, faculty from the Centers for Disease Control and Prevention will instruct participants in how to detect and identify medically important intestinal helminths, intestinal protozoa, and arthropods.

APPLICATION & REGISTRATION

* FREE REGISTRATION

Application Deadline: February 8, 2016

- The preliminary application is to be completed online at <https://www.surveymonkey.com/r/2016intestinalApril>
- If you are unable to complete the application online, notify Karen Ching at 404-498-6403 or email kching@cdc.gov.
- Only completed applications received by the deadline will be considered.
- Participants will be selected according to the applicants' job description, experience, and responsibilities.
- Notification of acceptance status will be sent via email by **Feb. 11, 2016**.

Audience

This intermediate-level, hands-on program is intended for laboratorians who work in public health or clinical microbiology laboratories, are proficient using a microscope, and have experience identifying intestinal parasites and arthropods.

Security Clearance Requirements

NON-US CITIZENS — This course will be held at the training laboratory on the CDC Roybal campus. Due to CDC requirements for security clearance, all non-US citizens will be asked to provide information needed to obtain clearance. Detailed instructions will be provided upon acceptance into the course. Please do not make any nonrefundable travel plans until you have received confirmation of acceptance into the course and security clearance approval. The information you provide will only be used for the purposes of attending this course.

US CITIZENS - If you are a US citizen, there is no extra clearance process required.

Continuing Education Units (CEU)

The Centers for Disease Control and Prevention Laboratory Training Team is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. This course is approved for **17** contact hours.

This course has been approved for **24** contact hours in the category of Microbiology/Mycology/Parasitology for Florida Laboratory Licensees.

Disclosure

CDC, our planners, and our presenters wish to disclose they have no financial interests or other relationships with the manufacturers of commercial products, suppliers of commercial services, or commercial supporters. Presentations will not include any discussion of the unlabeled use of a product or a product under investigational use.

Use of trade names and commercial sources is for identification only and does not imply endorsement by the Division of Laboratory Systems, Center of Surveillance, Epidemiology, and Laboratory Services, Centers for Disease Control and Prevention, or the U.S. Department of Health and Human Services.

Special Needs

In compliance with the Americans with Disabilities Act (ADA), individuals seeking special accommodations should submit their request in writing to rbandea@cdc.gov or phone 404-639-4554 at least three weeks before the program. Please allow sufficient time for CDC to make arrangements which is normally at least three weeks prior to the start date of course.

QUESTIONS

Please contact Karen Ching at 404-498-6403 or email kching@cdc.gov.

AGENDA

DAY 1—Tuesday, April 19, 2016

TIME	TYPE	ITEM	SPEAKER
8:00 am	Lecture	Introduction	Karen Ching
8:30 am	Lecture	Safety Briefing	Dana Jones
8:45am	Lecture	Pre-Test	Karen Ching
9:45 am	Break	Break	
10:00 am	Lecture	Flagellates, Ciliates, <i>Blastocystis</i>	Henry Bishop
10:30 am	Lab	Flagellates, Ciliates, <i>Blastocystis</i>	
11:30 am	Lunch	Cafeteria	
12:30 pm	Lecture	Intestinal Amoebae	Blaine Mathison
1:30 pm	Lab	Protozoa to date	
3:00 pm	Break	Break	
3:30 pm	Lab	Protozoa to date	
4:15 pm	Lecture	Questions and Answers	
4:30 pm		Adjourn	

DAY 2—Wednesday, April 20, 2016

TIME	TYPE	ITEM	SPEAKER
8:30 am	Lecture	Intestinal Coccidia	Henry Bishop
9:30 am	Lecture	Microsporidia	Blaine Mathison
10:15 am	Break	Break	
10:30 am	Lab	Protozoa to date	
11:30 am	Lunch	Lunch	
12:30 pm	Lecture	Intestinal Cestodes	Blaine Mathison
1:30 pm	Lab	Intestinal Cestodes, Protozoa to date	
3:15 pm	Break	Break	
3:00 pm	Lab	Cestodes, Protozoa to date	
4:15 pm	Lecture	Questions and Answers	
4:30 pm		Adjourn	

DAY 3—Thursday, April 21, 2016

TIME	TYPE	ITEM	SPEAKER
8:30 am	Lecture	Intestinal Trematodes	Henry Bishop
9:30 am	Lab	Helminths, Protozoa to date	
10:15 am	Break	Break	
10:30 am	Lab	Helminths, Protozoa to date	
11:30 am	Lunch	Lunch	
12:30 pm	Lecture	Intestinal Nematodes	Blaine Mathison
1:15 pm	Lab	Helminths, Protozoa (all)	
2:30 pm	Break	Break	
2:45 pm	Lecture	Telediagnosis	Blaine Mathison
3:15 pm	Lab	Helminths, Protozoa (all)	
4:15 pm		Questions and Answers	
4:30 pm		Adjourn	

DAY 4—Friday, April 22, 2016

TIME	TYPE	ITEM	SPEAKER
8:30 am	Lecture	Arthropods	Blaine Mathison
9:15 am	Lab	All organisms and review	
10:15 am	Break	Break	
10:30 am	Lab	All organisms and review	
11:30 am	Lunch	Lunch	
12:30 pm	Lecture	Review, Q&A	
12:45 am	Lecture	Post-Test	Karen Ching
1:45 pm	Break		
2:00 pm		Evaluation	Karen Ching
2:30 pm		Adjourn	