Miami Dade College

Course Competency

MLT 2440L CLINICAL MICROBIOLOGY LAB 1

Course Description

This course provides a practical overview of mycol ogy and parasitology. Students will also obtain ha nds-on experience working with formalin preserve o va and parasites. They will also obtain the knowle dge necessary to be able to identify at least the genus level of the most commonly encountered yeast s and fungi using microscopic and macroscopic tech niques. This course should be taken concurrently w ith Clinical Microbiology 1 lecture. (2 hr. lab)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and comprehension of laboratory procedures of parasites by:	1. Critical thinking 2. Communication 3. Information Literacy
1. Stating proper techniques for collecting and transport of specimens for parasitology examination. 2. Performing wet mount smears using iodine or saline from previously prepared specimens. 3. Correctly identifying parasites on a stained blood and fecal smears	
Competency 2: The student will demonstrate knowledge and application in identifying the most clinically important parasites by:	
1. Stating and recognizing fundamental characteristics of groups of parasites. 2. Recognizing and identifying forms and stage(s) of parasites 3. Identifying the key structures that identify certain parasites	
Competency 3: The student will demonstrate knowledge and comprehension of laboratory procedures specimen collection and quality control by:	1. Numbers / Data

1. Stating the commonly used sites in the body for specimen collection 2. Recognizing the importance of proper collection and transport. 3. Adhering to the safety measures outlined in the laboratory 4. Practicing safety and universal precautions 5. Explaining and demonstrating quality control procedures	
Competency 4: The student will demonstrate knowledge and application by identifying yeast and mold commonly encountered in the clinical lab by:	
1. Identifying the appropriate media and ingredients used in the mycology lab for primary isolation of organisms 2. Demonstrating technique (s) commonly used to identify the structures of molds for genus and species classification 3. Performing identification techniques for most common yeast recovered from clinical specimens	

Updated: FALL TERM 2022