



WEBER STATE
UNIVERSITY

Online Clinical Competency Checklist CLS 2214 Introduction to Clinical Microbiology II

Student: _____ Wildcat ID # _____

Course Instructor: _____

Mentors (list all for this course): _____

Facility: _____

	Expected Achievement	Student Score	Date Complete
Orientation and Lab Safety			
Review the laboratory's fire safety plan.	4		
Locate Personal Protective equipment and MSDS.	4		
Discuss Universal Precautions for microbiology.	4		
Labeling & Specimen ID			
Label specimens according to institutional policies.	5		
Specimen set up & incubation			
Select proper primary media including anaerobic and fungal media if available.	5		
Understand specimen collection & rejection criteria.	5		
Incubate specimens properly including anaerobic and fungal cultures.	5		
Inoculation			
Demonstrate plate streaking for isolation & quantitative streaking for urines.	5		
Quality Control			
Perform quality control for new media, reagents, and stock culture organisms.	4		
Understand documentation & actions taken when results are not in acceptable limits.	4		
Gram Staining			
Practice performing Gram stains until proficient.	5		
Evaluate Grams stains, including sputum samples, wounds, genital samples, and positive blood cultures until proficient.	5		
Evaluate direct Gram stains of anaerobic isolates if available.	5		
Evaluation of primary cultures			
Evaluate cultures to recognize what is normal flora and what is significant.	4		
Antimicrobials			
Select appropriate pathogens to perform antimicrobial testing. Setup and Interpret antimicrobial tests i.e. Kirby bauer, automated systems (Microscan, Vitek), etc.	4		
Discuss CLSI guidelines for MIC and Breakpoint ranges.	1		
Discuss antimicrobial resistance: VRE, MRSA, VRSA.	1		
Gram positive bacilli			
Recognize and identify Gram-positive bacilli in cultures.	4		
Mycobacteria			
Process mycobacteria specimens to the extent available at your facility.	3		
Viruses			
Process specimens for viral procedures (include culture if applicable at your facility).	3		
Perform RSV and Influenza testing (if performed at your facility).	4		
Parasites			
Identify the proper specimens for O & P examinations.	4		
Discuss the proper terminology for reporting positive O & P specimens.	1		
Process specimens for O & P exams (wet mount or iodine stain).	3		

Scoring Key

1 = Discussed	2 = Demonstrated	3 = Practiced	4 = Performed under maximum supervision	5 = performed under minimum supervision	NA = Not applicable
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Demonstrate proper procedure for permanent staining of O & P specimens.	3		
Evaluate iodine or wet mount O & P slides to identify parasites present.	3		
Evaluate Trichrome O & P slides to identify parasites present.	3		
Perform Acid fast stain to identify parasites.	3		
Perform testing for Giardia antigen, <i>C. difficile</i> toxins, & other stool pathogen testing.	3		
Anaerobic Bacteria			
Select the proper anaerobic media for plating of specimens for anaerobic culture.	4		
Discuss proper specimen handling & transport conditions for anaerobic bacteria.	1		
Demonstrate how to obtain anaerobic conditions pertaining to bacteria.	4		
Identify anaerobes in clinical specimens to the extent performed at your facility.	3		
Discuss antimicrobial therapy for anaerobic infections.	1		
Mycology			
Discuss proper specimen collection and transport issues related to Mycology.	1		
Process specimens for fungal culture to the extent performed at this facility	3		
Affective Objectives			
Student demonstrates honesty by:			
Maintaining strict patient confidentiality	5		
Accepting control values only when within acceptable limits.	5		
Performing & documenting maintenance procedures & preventative maintenance.	5		
Completing all procedures in adherence to laboratory SOPs, taking no shortcuts.	5		
Personal Interactive Skills			
Student demonstrates proper professional behavior by:			
Working with co-workers in a positive manner, promoting productive workflow.	5		
Refrain from statements/ actions of sexual, ethnic, racial, or homophobic harassment.	5		
Willingly and consistently using appropriate personal safety devices.	5		
Completing all required tasks and remaining in the work area when scheduled.	5		
Being punctual whenever scheduled.	5		
Adhering to current dress and appearance in the laboratory setting.	5		
Cleaning the work area when leaving the laboratory.	5		
Professional Responsibility			
Student demonstrates appropriate professional affective behavior by:			
Correctly reporting patient test values including critical test values.	5		
Resolving discrepancies in specimen labeling, handling, or collection.	5		
Based on performance is this the type of person you would consider for potential employment?		<input type="checkbox"/> Y	<input type="checkbox"/> N



Comments:

Please have all mentors sign and date below.

Mentor Signature _____ Date _____

Mentor Signature _____ Date _____

Mentor Signature _____ Date _____

Mentor Signature _____ Date _____

LABORATORY CLINICAL EXPERIENCE

The CLS 2214 student has studied the following items in class this semester to prepare them for this laboratory skills competency practical experience:

Antimicrobials
Aerobic Gram Positive Rods
Spirochetes
Anaerobes
Mycobacteria
Obligate Intracellular Parasites & Cell Wall Deficient Bacteria
Parasites
Fungi

It is understood that the student will process specimens in the categories listed above to the extent available at the clinical facility. If specimens are sent to a reference facility for testing, the student will participate in preparation of the samples for sending them to the referring facility. Students may also participate in plate reading, Gram staining, antimicrobial testing, and other areas that were covered in CLS 2212 (part one of this Microbiology course) as time allows.

The student should perform the following tasks (as deemed appropriate for students by the clinical facility):

- Participate in culture set up procedures from labeling through incubation
- Perform and interpret Gram stains on both specimens and direct colonies
- Become familiar with automated instruments used in the Microbiology laboratory, including maintenance, Quality Control measures, operation and troubleshooting.
- Participate in plate reading under direct supervision
- Participate in setup and interpretation of antimicrobial susceptibility testing
- Become familiar with processes for reviewing and reporting results, including STATs and critical values
- Perform all procedures using the teaching institution's methodology and SOPs.

Students should work with their respective mentors to complete the listed objectives. Accuracy, precision, timely reporting of results and demeanor must comply with the laboratory's acceptable standards. While working in the laboratory, the student must meet laboratory standards for work habit skills in patient confidentiality, communication skills, laboratory safety, universal precautions, waste disposal, equipment, and work area maintenance. It is requested that the student's laboratory competency evaluation be completed by the clinical mentor *in the presence of the student*, so as to allow verbal feedback to the student regarding the student's progress and performance.

LEVELS OF ACHIEVEMENT

LEVEL 1: Discussed: Process was discussed, principle explained, student acknowledges an understanding of the process or principle.

LEVEL 2: Demonstrated: Process has been performed and demonstrated by the practicum instructor. Student has observed demonstration and has been allowed to ask questions as needed. The student acknowledges an understanding of the process or principle by verbally explaining the process or principle back to the practicum instructor.

LEVEL 3: Practiced: Student has *practiced* the process under the direction and maximum supervision of the practicum instructor. The student demonstrates knowledge of how to perform the process or task by actual performance under direct, maximum supervision, but without having to demonstrate any particular competency at that task or process.

LEVEL 4: Maximum Supervision: The student has performed the process under the direct, maximum supervision of the practicum instructor, and with the level of competency required by the laboratory for that task or process.

LEVEL 5: Minimum Supervision: The student can perform the process satisfactorily with only minimum or non-direct supervision by the practicum instructor, and the performance meets the level of competency required by the laboratory for that task or process.

N/A: Not Available/Applicable: The nature of the laboratory does not allow the student access to the equipment/test method.

Please only submit pages 1 – 3 of this form when returning signed competencies.