



Microbiology Clinical Competency Checklist - MLS 5204 Technologist in Microbiology

LABORATORY CLINICAL EXPERIENCE OBJECTIVES

At the completion of the MLS 5204 course, the student will have successfully completed the following:

- 1. **Primary plating**. Processing clinical specimens to include: appropriate methods of logging specimens, choosing appropriate media, and proper plating techniques.
- 2. **Gram Stains**. Prepare and interpret direct gram stains to include: screening appropriate from inappropriate specimens for culture, and giving the physician the maximum amount of information possible.
- 3. **Plate Reading**. Reading of primary plates to include: interpretation of initial growth, sub culturing of initial growth if indicated, and performing identification, susceptibility testing and interpretation as needed.
- 4. **Antibiotic Susceptibility Testing**. Performing antibiotic susceptibility testing by individual laboratory methods. To include one or more of the following: Disk diffusion susceptibility testing, broth microdilution, and automated methods.
- 5. Automated Instrumentation. Perform testing on any automated instrumentation used by the laboratory.
- 6. Microbiology Serological Testing. Perform testing using serological methods used by the laboratory.
- 7. **Molecular Testing**. Observe any molecular testing performed by the laboratory.
- 8. Quality Control. Perform daily and weekly quality control to include quality control on any automated instrumentation available.

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. It is understood that not all laboratories will offer the same clinical experience, but mentors should try to accomplish all items in the checklist if the services are available at that location.

Note: As part of the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) accreditation regulations, no student may engage in **service work** during his/her clinical experience. All laboratory test results generated by students during their clinical hours must be directly supervised by clinical laboratory staff. While the student is performing their clinical hours, they must be performing duties as a student, and not an employee.

Course Instructor:		 	
Mentors (list all for t	nis course):	 	
Facility:			

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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 principle by verbally explaining the process or principle back to the practicum instructor. 3: Practiced: Student has <i>practiced</i> the process under the direction and maximum supervision of the practicum instructure student demonstrates knowledge of how to perform the process or task by actual performance under direct, maximum supervision that task or process. 4: Maximum Supervision: The student has performed the process under the direct, maximum supervision of the practine instructor, and with the level of competency required by the laboratory for that task or process. 5: Minimum Supervision: The student can perform the process satisfactorily with only minimum or non-direct supervithe practicum instructor, and the performance meets the level of competency required by the laboratory for that task or process. NA: Not Available: The nature of the laboratory does not allow the student access to the equipment/test method. Note: The competencies will be graded for a total of 100 pts. Points will be deducted for competency categories that are not a discussed with the student, please write, "1 – N/A". Students must achieve a minimum of 80% on their competency checklist pass. N/A is not acceptable with criteria denoted as Mandatory, which is indicated with an "M" in the mandatory column. Please note that the goal of the lab competencies is for your mentor to feel comfortable with your ability in the micro lab. If y mentor does not feel that the minimum required time is adequate, you should work out a schedule with them to spend more the microbiology lab. Please have all mentors print their name, initial, sign and date below. Mentor Printed Name Initials Initials	Discussed: Process was discussed, principle explained, student acknowledges an understanding of the process or principle. Demonstrated: Process has been performed and demonstrated by the practicum instructor. Student has observed monstration and has been allowed to ask questions as needed. The student acknowledges an understanding of the process or nciple by verbally explaining the process or principle back to the practicum instructor. Practiced: Student has practiced the process under the direction and maximum supervision of the practicum instructor. The ident demonstrates knowledge of how to perform the process or task by actual performance under direct, maximum supervision, twithout having to demonstrate any particular competency at that task or process. Maximum Supervision: The student has performed the process under the direct, maximum supervision of the practicum tructor, and with the level of competency required by the laboratory for that task or process. Minimum Supervision: The student can perform the process satisfactorily with only minimum or non-direct supervision by a practicum instructor, and the performance meets the level of competency required by the laboratory for that task or process. A: Not Available: The nature of the laboratory does not allow the student access to the equipment/test method. The competencies will be graded for a total of 100 pts. Points will be deducted for competency categories that are not met. If an mis not available at the lab, please N/A that area so the student does not lose points. If something is not available, but was cussed with the student, please write, "1 – N/A". Students must achieve a minimum of 80% on their competency checklist in order ss. N/A is not acceptable with criteria denoted as Mandatory, which is indicated with an "M" in the mandatory column. Base note that the goal of the lab competencies is for your mentor to feel comfortable with your ability in the micro lab. If your entor does not feel that the minimum required time is adequate, you sho	Student:	·	Wildcat ID #	
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Comments:		Comm	ents:		

Student: ______ Wildcat ID #______

Orientation and lab safety	Mandatory	Expected	Student	Date	Mentor
Offentation and lab safety	indiadatory	Score	Score	Dute	initial
Discuss Standard Precautions for microbiology.	М	1			
Discuss biosafety laboratory levels and precautions and PPE required at the facility	М	1			
Basic laboratory skills					
Demonstrate pipette accuracy and precision	М	5			
Identify components and cleaning/maintenance of microscope	М	3			
Demonstrate use of different objectives and focusing of scope	М	5			
Demonstrate proper biosafety cabinet procedures	М	5			
Specimen set up & incubation					
Select proper primary media for specimens including plated media for aerobic	М	5			
culture, broth media, anaerobic, fungal media (if available), and slides for Gram					
stains					
Understand specimen collection & rejection criteria	М	5			
Incubate specimens properly including anaerobic and fungal cultures	М	5			
Inoculation					
Perform plate streaking for isolation & quantitative streaking for urines		5			
Subculture 10 samples with adequate isolation	М	5			
Quality control					
Perform quality control procedures in accordance with institutional policies for new		4			
media, reagents, and stock culture organisms					
Understand documentation and actions taken when results are not within acceptable		4			
limits					
Gram staining					
Discuss sputum rejection criteria		1			
Perform Gram stain procedure until proficient with minimal supervision	М	5			
Evaluate Gram stains, including sputum samples, wounds, CSF, body fluids and	М	5			
positive blood cultures until results are acceptable.					
Demonstrate proficiency in recognizing somatic cells in Gram stains	М	5			
Demonstrate proficiency in recognizing various Gram positive cocci in Gram stains	М	5			
Demonstrate proficiency in recognizing various Gram negative bacilli in Gram stains	М	5			
Demonstrate proficiency in recognizing various anaerobic bacteria in Gram stains					
Evaluation of primary cultures					
Evaluate cultures and discuss how to recognize what is resident flora and what is		4			
significant					
Evaluate throat cultures & recognize next course of action		4			
Evaluate urine cultures to decide when identification and susceptibility testing is		4			
warranted					
Evaluate stool cultures & discuss next course of action		4			
Evaluate body fluid cultures for potential pathogens		4			
Evaluate wound cultures, recognize what is significant, & select next course of action		4			
Evaluate respiratory cultures, including sputum cultures. Discuss respiratory flora &		4			
potential pathogens					
Blood culture processing					
Demonstrate procedure for processing positive blood cultures including subcultures,		4			
Gram stains, and proper reporting of results					
Demonstrate rapid identification and resistance marker detection from positive		2			
= 1					1
blood cultures					

Student: ______ Wildcat ID #______

ID of organisms	Mandatory	Expected Score	Student Score	Date complete	Mentor initial
(Continued)	2.4		-	complete	
Recognize and identify Staphylococcus species	М	4			<u> </u>
Recognize and identify Neisseria species		4			
Recognize and identity Gram negative bacilli	M	4			
Perform manual identification panels (e.g. API, RapID)	М	4			
Perform MALDI-TOF MS		4			
Perform automated identification systems		4			
Perform Spot Tests	М	4			
Recognize and identify Gram-positive bacilli in cultures	М	4			
Recognize and identify non-fermentative bacilli in cultures	М	4			
Antimicrobials					
Select appropriate pathogens to perform antimicrobial susceptibility testing. Setup		4			
and interpret antimicrobial tests i.e. disk diffusion, automated systems (Microscan,					
Vitek, etc.)					
Discuss guidelines for MIC and disk diffusion breakpoint ranges	М	1			
Discuss antimicrobial resistance: VRE, MRSA, VRSA, ESBL, CRE, CRAB, and CRPA	М	1			
Anaerobic Bacteria					
Select the proper anaerobic media for plating of specimens for anaerobic culture		4			
Discuss proper specimen collection, handling, and transport conditions pertaining to		1			
anaerobic bacteria					
Identify anaerobes in clinical specimens to the extent performed at your facility		3			
Mycobacteria					
Process mycobacteria specimens to the extent available at your facility		3			
Read acid-fast smears		3			
Observe mycobacterial molecular testing (DNA probes, GeneXpert, etc.)		2			
Observe weekly culture checks		2			
Discuss identification of the most common organisms		1			
Viruses					
Discuss cell culture		1			
Process specimens for viral procedures		3			
Perform RSV and Influenza testing		4			
Parasites			1		
Process and read specimens for O&P exams to the extent available at your facility		4			
Perform testing for Giardia antigen, <i>C. difficile</i> toxins, and other stool pathogen		3			
testing (as available at your facility)					
Evaluate specimens for blood parasites, including malaria antigen and stain (if		2			
available)		_			
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			
Observe Cryptococcal antigen detection testing (if available)		2			
Interpretation and acceptance of results			<u> </u>		
Discuss recording, reporting, and documenting results		1			
		1	-		
Discuss which organisms are reportable to the State Health Department (state dependent)		1			
		1			
Discuss reporting and recording of critical/alert values	<u> </u>	1	<u> </u>		
Molecular testing		1	1		
Review molecular testing at your facility if available		1	<u> </u>		<u> </u>

Student: ______ Wildcat ID #______

Molecular Testing:		Expected	Student	Date	Mentor
(Continued)		Score	Score	complete	initial
Demonstrate MALDI-TOF testing		5			
Demonstrate the proper use of micropipettes		5			
Perform molecular detection, rapid methods		4			
Observe molecular detection, extraction and real-time PCR		2			
Observe molecular detection, automated, high volume platforms		2			
Observe sequencing prep and analysis		2			
Student demonstrates honesty by:					
Maintaining strict patient confidentiality	М	5			
Accepting control values only when within acceptable limits	М	5			
Properly performing and documenting daily & weekly maintenance procedures, preventative maintenance, temperature checks, etc.	M	5			
Completing all procedures in adherence to laboratory SOPs, taking no shortcuts or unauthorized modifications of procedure	M	5			
Student demonstrates personal interactive skills and proper professional behavior by:			l		
Working with co-workers in a positive manner, promoting productive workflow	М	5			
Refraining from making statements or actions that represent sexual, ethnic, racial, or homophobic harassment	M	5			
Willingly and consistently using appropriate personal safety devices when handling caustic, infectious, or hazardous materials	М	5			
Completing all required tasks and remaining in the work area when scheduled	М	5			
Being punctual whenever scheduled	М	5			
Adhering to current dress and appearance in the laboratory setting	М	5			
Cleaning the work area when leaving the laboratory, returning supplies to appropriate storage location, & disinfecting all work areas used by the student	М	5			
Student demonstrates professional responsibility by:					
Correctly reporting all patient test values, as well as recognizing and correctly reporting all patient critical test values	M	5			
Resolving discrepancies in specimen labeling, handling, or collection before reporting results	М	5			
Hours completed by student:		Required Hours	Student Hours	Date Complete	Mentor Initial
Note: The minimum time required in microbiology is 160 hours. However, mentors are encouraged to increase the number of hours dependent on individual student need. Please verify the number of hours your student spent in the lab:	М	160 hours			