

Clinical Chemistry & Immunology

Practicum Objectives – CLS 641

The following objectives are to be completed by the student for successful completion of this clinical rotation. The objectives within the psychomotor domain will be achieved by practice and evaluated through demonstration by the student. The objectives within the cognitive domain will be obtained through readings and evaluated through written exams.

Upon completion of the clinical practicum, the student should be able to:

Core Knowledge and Skills, (should be review of previously learned material and skills that do not need to be re-taught, just monitored).

1. Demonstrate accurate and precise pipetting technique using all available types of pipettes
2. Correctly calculate and perform serial and discrete dilutions
3. Recognize and perform corrective action when abnormal or absurd results occur
4. Maintain a clean work area
5. Apply all safety procedures at all times
6. Demonstrates correct usage and care of laboratory equipment and supplies

Specimen Acceptability, Processing and Handling

1. Demonstrate knowledge of departmental specimen handling – separate serum or plasma. Apply criteria for rejection of specimens and the reason for rejection. Apply methods for stabilizing or preserving specimens

Quality Assurance and Quality Control

1. Prepare control material and reagents per laboratory protocol
2. Perform calibration and QC procedures for all instruments or analytes per laboratory policy
3. Recognize out of control results using Westgard rules and take the appropriate corrective action
4. State possible causes for out of control results for each test
5. Perform and/or describe maintenance of any instruments used in this area and document appropriately

Automated Assay Methods/Instruments

1. Discuss the theories/principles of operation of the instrumentation and/or assay performed during this rotation
2. For all immunological assays, identify the antigen/antibody or other substances involved and whether the assay detects antigen or antibody in the patient specimen.
3. For all non-immunological assays describe the analytical methodology used to detect the analyte
4. Perform analyses using the various instrumentation under the supervision of the clinical instructor/liaison
5. Perform manual procedures under the supervision of the clinical instructor/liaison
6. Observe basic LIS computer applications where relevant

Post-Analytical

1. Recognize and report critical results to the appropriate person and documenting the interaction
2. Store and maintain paper worksheets and other documentation in the appropriate location

Clinical Chemistry & Immunology (Serology)

Practicum – CLS 641

Performance Tasks Checklist

Note: This checklist contains a number of Chemistry and Immunology (Serology) tests that may not necessarily be performed in the department at your clinical site or may be performed in another department. The CLS student will perform assigned tests that may or may not be included in this list. However, the student is responsible for applying the objectives to each of the tests listed below and any additional assigned by the site. Performing truly independently at all tasks may not be achievable at this stage, but with supervision the student should be able to perform most tasks with minimal oversight.

Please evaluate the student using the following scale:

1. Exceeds Standards (100%): Consistently exceeds entry level expectations. Student demonstrates exceptional initiative and independent functioning. Can perform tasks independently.
2. Above Standards (90%): Consistent in meeting entry-level expectations. Student performance demonstrates initiative and independent functioning. Student may excel in some areas.
3. Meets Standards (80%): Consistent in meeting entry-level expectations. Can perform procedures with supervision.
4. Below Standards (70%): Performance is marginally below entry-level expectations. Student needs to improve to achieve entry level competencies.
5. Fails to Meet Standards (60%): Performance is significantly below entry-level expectations. Performance is unacceptable. Needs continuous monitoring and supervision.

N/A: Not applicable. No opportunity to evaluate criteria. Please mark “NA” across the rating scale if there has been inadequate opportunity to evaluate an attribute.

Pre-Analytical

Exceeds Standards (100%)	Above Standards (90%)	Meets Standards (80%)	Below Standards (70%)	Fails to Meet Standards (60%)	N/A
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Automated Analyses

Performs patient sample analysis on the following instruments on in different testing areas: List the instrument used and/or individual test performed.

Instrument used and/or individual test performed: _____

- Exceeds Standards (100%)
- Above Standards (90%)
- Meets Standards (80%)
- Below Standards (70%)
- Fails to Meet Standards (60%)
- N/A

Instrument used and/or individual test performed: _____

- Exceeds Standards (100%)
- Above Standards (90%)
- Meets Standards (80%)
- Below Standards (70%)
- Fails to Meet Standards (60%)
- N/A

Automated Analyses *continued*

Instrument used and/or individual test performed: _____

- Exceeds Standards (100%)
- Above Standards (90%)
- Meets Standards (80%)
- Below Standards (70%)
- Fails to Meet Standards (60%)
- N/A

RF/RA

RPR

ANA

Viral Serologies

Post-Analytical

	Exceeds Standards (100%)	Above Standards (90%)	Meets Standards (80%)	Below Standards (70%)	Fails to Meet Standards (60%)	N/A
Reportable ranges	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Documentation of critical results	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Compares present to previous results – Delta checks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recognize abnormal results and Takes appropriate action	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Additional Comments:

Clinical Instructor: _____

Date: _____