

Clinical Rotation Site:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Preceptor Printed Name(s):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Chemistry Clinical Rotation**

Competency Checklist

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Area** | **Specific requirements** | **Notes** | **Check off** |
| **Quality Control and Maintenance** | Performs QC on routinely used chemistry analyzers and immunoassays |  | ⃝ Completed  ⃝ Not Applicable |
| Observes or performs preventative maintenance on all chemistry analyzers |
| Evaluates Levey-Jennings charts for Westgard Rule violations. |
| Troubleshoot QC violations on all chemistry analyzers |
| **Calibrations and linearity** | Discuss/observe calibration procedure and protocol of different analytes. |  | ⃝ Completed  ⃝ Not Applicable |
| Discuss/observe frequency and procedure for linearity studies of chemistry equipment |
| **Specimen Acceptability** | Discuss the reasons and follow-up procedures for rejection of samples according to department protocol. |  | ⃝ Completed  ⃝ Not Applicable |
| Determines appropriate sample type (serum/plasma, additive, etc.) |
| Identifies preanalytical errors and/or physiological conditions which will interfere with specific tests, ie, hemolysis, lipemia, icterus, incorrect tube additive, etc. |
| **Analyzer operation of Patient Samples and Reporting** | Read/discuss principle of the instrument operation or test procedure reaction. |  | ⃝ Completed  ⃝ Not Applicable |
| Perform instrument start-up and/or shutdown. |
| Appropriately acts on results beyond the linearity and/or reportable range of the instrument/network |
| Discuss “critical” or “panic” values and reporting protocol |
| Discuss and observe LIS result entry. |
| Discuss and observe delta check protocol. |
| **Discuss and perform dilutions when necessary.** |
| **Referral (send out) Testing** | Discuss/observe specimen processing, paperwork, and tests involved in referral testing |  | ⃝ Completed  ⃝ Not Applicable |
| **Theory** | Discuss the clinical significance of abnormal results obtained, correlating patient results as to possible disease and/or therapy states. |  | ⃝ Completed  ⃝ Not Applicable |
| **Special**  **Procedures** | Osmometry | ⃝ Completed ⃝ Not Available | Other/Notes: |
| Serology (Flu, Strep, HCG, Mono, etc.) | ⃝ Completed ⃝ Not Available |
| Electrophoresis | ⃝ Completed ⃝ Not Available |
| Sweat Chloride | ⃝ Completed ⃝ Not Available |
| Esoteric chemistry testing: | |