**ESR Auto Plus Training Checklist**

1. Complexity
   1. Moderate
2. Test Name
   1. Cerner
      1. Sed Rate Automated
   2. EPIC
      1. Sed Rate NP Lab
      2. Lab 0001354
3. Specimen Collection
   1. Venous specimens only
      1. ESR Vacuum Tube – preferred
         1. 1.2mL – to fill line
            1. May be +/- 5 mm
         2. Draw in same position as coag tube
         3. Use lead tube, if drawn with butterfly
         4. Mix immediately following
            1. Tube must be completely inverted
            2. Invert 6 – 8 times
      2. EDTA tube -- secondary
4. Specimen Labeling
   1. Specifications
      1. Label at top, directly below cap
      2. Label must be smooth – no bubbles or gaps
   2. Alternate labeling
      1. Peon label
      2. Label sleeve
5. Specimen Requirements
   1. ESR Vacuum tube
      1. Filled 1.2mL (+/- 5mm)
   2. EDTA blood – transferred to ESR Vacuum tube within 4 hours
6. Test Limitations
   1. Reject clotted specimens
   2. Instrument will reject under or overfilled tubes
   3. Reject grossly hemolyzed specimens
   4. Icteric specimens – no interference up to 20.2 mg/dL
   5. Low Hemoglobin – instrument can run specimens with hgb ≥3.0 g/dL
      1. If ESR result >120 – check hemoglobin concentration on Sysmex, cancel test if hgb critically low
      2. If instrument gives sample not recognized, check hemoglobin on sysmex. Cancel test is Sysmex confirms critically low hgb.
   6. Lipemic specimens – if specimen grossly lipemic, cancel and reorder
      1. If result questionable, check specimen for lipemia. If gross lipemia present, cancel and reorder.
7. Specimen Storage and Stability
   1. EDTA specimens – good for 4 hours
   2. ESR Vacuum Tubes – good for 72 hours when stored at 2-10°C
8. Reagent Storage and Stability
   1. ESR Vacuum Tubes
      1. Usually about 18 month outdate
      2. Stored at room temperature
   2. ESR Chex
      1. Unopened vials Stored in refrig at 2-10°C; stable until printed outdate
      2. Opened vial, **stored at room temp with an open outdate of 95 days**
9. Calibration
   1. Each day perform system check using test rack.
   2. Mark as complete on daily startup log
10. Quality Control
    1. Normal/Abnormal results performed each day of patient testing.
    2. **See procedure for step by step process**
    3. Initial next to appropriate line for QC.

|  |  |  |
| --- | --- | --- |
| **Patient** | **Result** | Perform/Enter |
| 1  **Initial next to the appropriate statement** |  |  |
| QC Performed & Acceptable -- Initial \_\_\_\_\_\_\_\_\_\_\_\_\_\_ or Previously performed & ok -- Initial \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |

* 1. Each new lot of QC must be registered and the old lot summary printed. **See process in procedure.**

1. Patient Testing
   1. Testing takes 30 minutes
   2. See procedure for step by step process
2. Normal results
   1. Male 0-10
   2. Female 0-20
3. Unexpected Results
   1. If instrument gives you an error, review section 10 in Operators Manual
   2. Remedy error and repeat
   3. If error persists, seek supervisor or lead assistance
4. Maintenance
   1. Run test rack calibration daily
   2. As needed, verify print head is free from dust or paper
   3. As need, clean the instrument using a soft, damp cloth or paper
5. Instrument Failure
   1. Draw EDTA tubes and send specimens stat by courier to HCMC

**To demonstrate your ability to use the ESR Auto Plus, please run the Normal and Abnormal QC. Document your results here:**

|  |  |
| --- | --- |
| **Normal Range:** | **Abnormal Range:** |
| **Your Normal Result:** | **Your Abnormal Result:** |
| **Normal QC acceptable: Y or N** | **Abnormal QC acceptable: Y or N** |

**I certify that I have completed training and can competently perform ESR testing using the ESR Auto Plus**.

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Employee Signature Date

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

Employee Name (print)

**I certify that this employee has completed training and can competently perform ESR testing using the ESR Auto Plus**.

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Supervisor Signature Date

**Turn in completed form to Sherry.**