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| **St. Anthony**  **Regional Hospital**  POLICY/PROCEDURE | Effective Date: | Latest Revised Date:  Reviewed Date: |
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| **Title: BACK-UP PROCEDURE FOR THE**  **XE-2100 ANALYZER** | | Department: Laboratory |

**Principle:**

In the event that the XE-2100 is not working - the following procedure will be followed to perform a Complete Blood Count or any part of a CBC.

**Procedure:**

Contact the McFarland Clinic Laboratory and inform them that out Hematology analyzer is not working and ask if we may bring them STAT and Urgent samples. (Consent for this was last given on 8/24/2012). McFarland’s hours are 8 A.M. to 5 P.M. Monday through Friday. Saturday’s hours are 8 A.M. to 12:00 P.M. Make two blood smears from any given sample before sending it to the McFarland Laboratory. Someone from the SARH Laboratory will deliver them to McFarland, wait for the results and bring them back to the SARH Lab. The results will then be transcribed to Meditech.

Routine specimens will be done at the discretion of the Laboratory Manager.

When the McFarland Clinic is not available these manual procedures can be used:

Note: Before starting any manual procedures a manual WBC control must be run and be acceptable. This must be done every 8 hours. In addition – i-STAT CHEM8+ Level 1 and i-STAT CHEM8+ Level 3 must be run and be acceptable. These are done at 24-hour intervals.

Enter the control results in Meditech.

1. Use the i-STAT with a CHEM8+ cartridge to analyze a Hemoglobin and a Hematocrit..Use an unspun lithium heparin tube. Do NOT use EDTA anticoagulated blood as EDTA interferes with the electrolyte measurements. These are used in the calculation of the hematocrit results.
2. Perform a manual WBC. See the procedure in this manual.
3. Stain a blood smear and do a platelet estimate. See the procedure in this manual.
4. If a CBC has been ordered do a manual differential and enter the results in Meditech.
5. Enter the WBC, Hgb, Hct and platelet estimate in Meditech. You will need to NP the remaining results. Change the methods to manual.

This report is the final report. The samples will not be reran when the analyzer is back in working order to verify the results.