	TITLE:		DEPT OF LAB MEDICINE CLINICAL HEMATOLOGY Policy and Procedure Manual
	OFF-SHIFT PROCEDURES FOR SPECIAL HEMATOLOGY TESTS		DOCUMENT # H-07-002
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WRITTEN BY: Paula Morris, MT (ASCP)	EFFECTIVE DATE: 09-1997	REVISION: H-5 6/12/13	SUPERCEDES: H-4 8/8/12

I. OSMOTIC FRAGILITY:

- A. Lithium Heparin (dark green tube)
- B. If possible obtain the Hgb value from a lavender tube result.
- C. **Specimens received prior to 5PM are placed in 37° water bath in Special Hematology with a note indicating time placed in the water bath**
- D. **Specimens received after 5PM are placed in the walk-in refrigerator until the next morning.**
- E. Leave note in communication log in main lab with specimen label

II. %S:

- A. The clinical Lab Resident must be called when a request for a **STAT %S** is received in the laboratory during the evening or night hours. A special hematology tech may have to be called in if the resident deems this a true emergency. Contact weekend supervisor for guidance.
- B. %S is performed only on known sickle patients who are being transfused or undergoing an emergency procedure.
- C. This test is performed by the Variant II HPLC or D10. The %S result is called to the physician in addition to being entered into SOFT.


III. G6PD:

- A. EDTA Specimen run on the Sapphire for a Hgb result and refrigerate the sample. Place in Special Hematology bucket in central processing walk-in.
- B. Any request for a STAT G6PD on the off-shift needs to be cleared by the Clinical Lab Resident. A technologist will be called in for overtime.

IV. Hemoglobin Screens (routine)

- A. EDTA Specimen run on the Sapphire for a HCT and MCV result and refrigerate the sample. Place in Special Hematology bucket in central processing walk-in.

V. SPECIAL STAINS. INCLUDES: Peroxidase, PAS (Periodic acid stain), Alpha Naphthyl Butyrate (butyrate esterase) and Sudan black.

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- A. Specimen- PB or bone marrow EDTA (heparin can be used)

Process:

- A. Make at least 10 smears, using 3x1 frosted end slides. Using appropriate technique for specimen type.
- B. Place in a yellow envelope with the patients bar coded label on the envelope
- C. Leave a note in the main lab communication log.
- D. Place the envelope on the white rack in Special Hematology.

VI. NBT:

- A. Specimen: red top serum tube (Must arrive at **Room temperature**)
- B. If the specimen feels cold as if it had been stored in a refrigerator or arrived in a cold pack please leave a note for the Special Hematology technologist for the next day.
- C. This sample **MUST be delivered and placed at Room temperature** in the white special Hematology bench rack.
- D. Write a note in the main lab communication log.

VII. LYSOZYME: LYSOZ (send out test)

- A. 1 Lavender tube
- B. Spin at 3000 RPM for 10 minutes and freeze plasma in white tube for transport, label tube.
- C. 2 cc in 1 plastic tube in Special Hematology freezer in the labeled rack.
- D. Leave a note in the main lab communication log.

VIII. RBC ENZYME EVALUATION: RBCEZ (send out test)


- A. Refrigerate a 10 ml EDTA tube.

IX ISOPROPANOL SOLUBILITY (unstable Hgb): ISOPR (send out test)

- A. Refrigerate EDTA tube.

X. HISTORY:

- H-1 This procedure was written by P. Morris on 09-1997.
- H-2 This procedure has been revised by P Morris on 12/09/2010.
- H-3 This procedure was revised by P Morris 5/5/11.

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- H-4 This procedure was revised by S. Richardson on 8/8/2012.
- H-5 This procedure has been revised by A. Link on 6/12/2013