BBSE 3.0-Responding to Alarm Activation of Blood Bank Storage Equipment

1. Principle

All Blood Bank storage equipment must be continuous monitored to maintain the viability of the blood, blood products and reagents. Alarms are programmed to alert the user before the equipment reaches an unacceptable storage temperature. Steps must be taken to remove all contents of the storage equipment until such time as the acceptable storage temperature can be maintained.

# Specimen Collection and Preparation

N/A

# Equipment

* 1. Jewett Refrigerator
		1. SN V19T-136517-VT (BBR2)
		2. SN W26T-137081-XT (BBR1)
		3. SN Y01P-117822-YP (BBR4)
	2. Jewett Freezer
		1. SN X03R-125602-XR (BBF3)
		2. SN 5446-394 (BBF1)
	3. Helmer Platelet Incubator, SN 365493N (BBPL1)
	4. Forma Freezer, SN 502784-7 (BBULF1)

# Supplies

N/A

# Reagents

N/A

## Quality Control

N/A

## Safety

Refer to Chemical Hygiene and Blood Borne Pathogen Plan for Memorial Hospital Laboratory.

## Procedure

* 1. Silence alarm on storage equipment.
		1. BBR1, BBR2 and BBR4
			1. Press silence button.
			2. Press up arrow button to increase alarm delay by 5 minute increments.
			3. Press set button to exit screen.
		2. BBF1
			1. Press start button to increase alarm delay by 5 minute increments.
		3. BBF3
			1. Press silence button.
			2. Press up arrow button to increase alarm delay by 5 minute increments.
			3. Press set button to exit screen.
		4. BBPL1
			1. Press alarm switch, located on lower right side of rocker, to off position.
			2. **Press alarm switch back to on position when problem is resolved**.
		5. BBULF1
			1. Press silence button to delay alarm by 15 minutes.
	2. Ensure that the doors of the equipment are securely closed.
	3. Observe if temperature is returning to acceptable range.
	4. Determine reason for alarm activation and document on temperature chart, including date and initials.
	5. If problem is resolved, reset the laboratory main alarm board.
		1. Using keys located in the blood bank, unlock the panel door.
		2. Press the silence button.
		3. Press the reset button.
		4. Lock panel door.
	6. If no indication of returning to acceptable range within 5-10 minutes:
		1. **Product must be removed from equipment to alternate location. (Refer to Job Aid #1)**
		2. Disable equipment monitoring from laboratory main alarm board, until problem is resolved.
			1. Using the keys located in the blood bank, unlock the panel door.
			2. Move the switch of the activated alarm to the down position.
			3. Press the silence button.
			4. Press the reset button to maintain monitoring of all other storage units.
			5. Lock panel door.
		3. **Notify supervisor.**
		4. Document actions on equipment temperature chart, including date and initials.

## References

* 1. Standards for Blood Banks and Transfusion Services, AABB, 26th Edition, 2009, Std. 3.6, 5.1.8, 5.1.8A, Bethesda, MD.
	2. Technical Manual, AABB, 16th Edition, 2008, pp. 284-288, Bethesda, MD.
	3. Blood Bank Refrigerator Operation Manual, 2003, Jewett, Asheville, NC.
	4. Blood Bank Freezer Operation Manual
	5. Platelet Incubator Operation Manual
	6. Forma Freezer Operation Manual

**PROCEDURE AND FORM CHANGE CONTROL**

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| Title: Responding to Alarm Activation of Blood Bank Storage Equipment |
| Written | **Validated** | **Path Review** | **Review** | **Effective** | **Reason for Revision** |
| Date | **By** | **Date** | **By** | **Date** | **By** | **Date** | **By** | **Date** | **By** |
| **12/1/09** | **PAB** | **12/22/09** | **GJM** | **12/29/09** | **ESB** |  |  | **2/1/10** | **PAB** |  |
| **Revised** |  |  |  |  |  |  |  |  |  |  |
| **12/21/11** | **PAB** |  |  | **12/23/11** | **ESB** |  |  | **12/29/11** | **PAB** | **Renamed equipment** |
| **8/2/12** | **PAB** |  |  |  |  |  |  |  |  | **Removed BBF2** |
| **10/27/14** | **JLH** |  |  |  |  |  |  |  |  | **Removed BBR3 for procedure and forms. Assigned number and version to SOP.** |
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Location of any copy(s) of the procedure:

**Out of use:**

**Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_By:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Reason:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**