Status Active PolicyStat ID 11591076

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Origination	5/6/2022	Document	Kelly Sartor	
Last	5/6/2022	Contact	,	
Approved		Area	Laboratory-Blood	
Effective	5/6/2022		Bank	
Last Revised	5/6/2022	Applicability	Dearborn, FH,	
Next Review	5/5/2024		Troy	

## Shipping Container Temperature Monitoring-Blood Bank

**Document Type: Procedure** 

## I. PURPOSE AND OBJECTIVE:

This document will provide policy and procedure for the temperature monitoring of the shipping containers between the hospitals.

## II. INTRODUCTION:

Beaumont Health transports blood components between hospitals. All containers used to transport blood components have been qualified by the blood suppliers before use to ensure that the proper component transport temperature is maintained. The temperature of the boxes used to ship red blood cells, thawed plasma and platelets following shipment is monitored quarterly to determine if these products are properly packed to maintain the red blood cell or platelet temperature within acceptable range.

## III. POLICY:

- A. This monitor should be completed quarterly for each site blood products are sent to and for each product the site receives.
- B. Whole blood, red blood cells, and thawed plasma products must be transported at a temperature of 1° to 10°C.
- C. Platelets, thawed cryoprecipitate, and granulocytes must be transported at a temperature of 20° to 24°C.
- D. This temperature monitor may be performed during the normal transfer of blood products between sites. If there are no blood products to transfer when the monitor is due, it is acceptable to place expired blood products in the shipping box. The face labels of expired products must be clearly defaced /marked to indicate that they are expired and not intended for transfusion.

## IV. DEFINITIONS:

- A. Containers: supplier blood component boxes
- B. Quarterly: within the calendar months of January, April, July and October
- C. NIST: National Institute of Standards and Technology

## v. equipment:

A. NIST Calibrated Thermometer

## VI. SUPPLIES:

- A. Wet ice
- B. Red blood cell unit or platelet unit (may be expired)
- C. Blood and platelet shipping boxes
- D. Room temperature gel packs
- E. Insulated platelet envelopes

## VII. PROCEDURE:

#### A Red Blood Cells

- Pack units to be transferred per standard operating procedures and add a thermometer to the inside of the shipping box.
- 2. Fill out the top portion of the *Shipping Container Temperature Monitor Form*, insert form into the shipping box and seal.
- 3. Call and instruct the receiving hospital to fill out the bottom portion of the *Shipping Container Temperature Monitor Form*, and return the completed form, container and the thermometer as soon as possible.
- 4. Upon receipt, review the completed form to see the temperature was between 1°and 10°C.
- 5. Submit completed form to the supervisor or designee for review.

#### B. Platelets

- 1. Pack units to be transferred per standard operating procedures and add a thermometer to the inside of the shipping box.
- 2. Fill out the top portion of the *Shipping Container Monitor Form*, insert form into the shipping box and seal.
- 3. Call and instruct the receiving hospital to fill out the bottom portion of the *Shipping Container Temperature Monitor Form*, and return the completed form and the thermometer as soon as possible.
- 4. Upon receipt, review the completed form to see the temperature was between 20° and 24°C.
- 5. Submit completed form to the supervisor or designee for review.

## **VIII. EXPECTED VALUES:**

Red blood cell boxes are to remain between 1° and 10°C. Platelet boxes are to remain between 20° and 24°C.

## IX. REFERENCES:

- 1. AABB, Technical Manual; current edition.
- 2. AABB, Standards for Blood Banks and Transfusion Services, current edition
- 3. College of American Pathologists, Transfusion Medicine Checklist, current edition.

## **Attachments**

### **Shipping Temperature Monitor Form**

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Approval Signatures Step Description	Approver Date	P		
	Vaishali Pansare: Chief, 5/6/2022 Pathology			
	Jeremy Powers: Chief, 4/22/2022 Pathology			
	John Pui: Chief, Pathology 4/22/2022			
	Ryan Johnson: OUWB Clinical 4/22/2022 Faculty			
	Craig Fletcher: System Med Dir, 4/21/2022 Blood Bank			
Policy and Forms Steering Committe (if needed)	Gail Juleff: Project Mgr Policy 4/21/2022			
Policy and Forms Steering Committe (if needed)	Kelly Sartor: Supv, Laboratory 4/21/2022			
	Karrie Torgerson: Supv, 4/21/2022 Laboratory			
	Teresa Lovins: Supv, 4/21/2022 Laboratory			
•	Kelly Sartor: Supv, Laboratory 4/21/2022			

Kelly Sartor: Supv, Laboratory 4/21/2022



# Beaumont

## **Beaumont Laboratory**

# **Shipping Container Temperature Monitoring Form**

Shipping Hospital:	-	
Date:	Blood Product (	Circle One):
Time Packed:	Red Blood Cells	Platelets
Packed by:	_	
Thermometer Serial #:	_	
Temperature from thermometer:	(Bring ice bag to 1° before packing the	to 6°C shipping box)
Receiving Hospital:		
Department:		
Date:		
Time:		
Receiving Technologist:	Temperature (	Circle One)
Temperature from Thermometer:	Acceptable	Unacceptable
RBC range	e is 1° to 10°C	
Platelet range	e is 20°C to 24°C	
Please return this completed form, blood box,	and thermometer to the Shipping	Hospital Blood
Bank.		
Return this completed form, blood box and the	rmometer to the Shipping Hospita	al Blood Bank.
Reviewed by: Da	te:	
Acceptable (√) Unacceptable (√)	Variance #	

Refer to procedure: Shipping Container Temperature Monitoring

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