

Beaumont

Origination 6/7/2022
 Last Approved 9/30/2024
 Effective 10/15/2024
 Last Revised 9/30/2024
 Next Review 9/30/2026

Document Contact Kelly Sartor: Mgr,
 Division Laboratory
 Area Laboratory-Blood Bank
 Applicability All Beaumont Hospitals

Taking the Temperature of a Blood Product - Blood Bank

[Receiving Blood Products](#) Document Type: Procedure

I. PURPOSE AND OBJECTIVE:

This document will provide policies and procedures for taking the temperature of blood products.

II. CLINICAL SIGNIFICANCE:

- A. Blood products must be stored and transported within defined temperature ranges to maintain their safety and quality. These temperature ranges are defined throughout the procedures. The temperatures of a blood product should be taken at various times. For example:
1. Upon their return from issue as described in Transfusion Medicine policy, [Return of Blood Products from Issue](#).
 2. Upon their return from issue in a cooler as described in site specific Transfusion Medicine policy, *Transporting Blood Components in a Cooler*.
 3. Upon their receipt as described in Transfusion Medicine policy, [Receiving Delivery of Blood Products](#).

III. POLICIES:

- A. Before taking a blood product's temperature, the contents of the bag should be gently mixed.
- B. When the procedures indicate that a blood product's temperature should be taken, the Infrared (IR) thermometer is used to take the surface temperature.
1. If the surface temperature is within the defined acceptable range then use the surface temperature reading to proceed as described in the applicable procedure.
 2. If the surface temperature is NOT within the defined acceptable range then the blood

product should be placed into quarantine or discarded. Refer to Transfusion Medicine policy, [Blood Product - Quarantine or Discard](#).

IV. EQUIPMENT:

- A. Extech® model IR200, Non-contact Forehead IR Thermometer.
- B. ScanTemp® 410, Non-contact IR Thermometer.

V. QUALITY CONTROL (QC):

- A. Each IR thermometer is NIST certified. It must be recalibrated, recertified, or replaced prior to the date of original certification expiration and annually thereafter, as well as any time there is reason to suspect change or damage.

VI. SPECIAL SAFETY PRECAUTIONS:

- A. The following precautions apply to the Extech® model IR200 thermometer.
 - 1. Do not immerse the thermometer in water.
 - 2. Avoid touching and/or scratching the infrared sensor lens.
 - 3. Clean the lens area as needed by gently blowing with compressed air and using a damp swab to wipe the lens. Do not use any solvents to clean the lens.
 - 4. When the low battery symbol appears on the display, replace the thermometer's batteries. The battery compartment is located on the bottom of the handle. Open the compartment by removing one screw and sliding the cover off. Replace the 2 AA batteries and close the battery compartment cover.

VII. PROCEDURE:

- A. Gently mix the contents of the blood product bag before taking the temperature.
- B. Hold the thermometer by its handle and point it toward the surface to be measured, no more than 2 inches away from the blood product. Aim the thermometer at a point on the blood product that is not covered by a label, and where the liquid (not air) is present on the inside of the bag; e.g., aim directly at the liquid, not a label or air.
- C. When using the Extech® model IR200 thermometer, the thermometer should already be set to read at Surface and to record in °C. If it isn't, set the Body Surface switch for "Surface" for wide range surface measurements and use the mode button to modify temperature settings. Refer to the manufacturer's instructions to set the required parameters.
- D. Press the trigger to turn the thermometer on and take the temperature reading. The temperature reading appears in the large display and a logged data number and the temperature appear in the smaller display.
- E. Release the trigger and the reading will hold for approximately 7 seconds after which the thermometer will automatically shut off. Trigger presses can occur up to a rate of one per second.

- F. Record the temperature in °C in BBIS (Blood Bank Information System) and on applicable forms/bag tags as per applicable Transfusion Medicine policy.
- G. Proceed as follows:
 1. If the surface temperature is within the defined acceptable range then use the surface temperature reading to proceed as described in the applicable procedure.
 2. If the surface temperature is NOT within the defined acceptable range then the blood product should be placed into quarantine or discarded, refer to Transfusion Medicine policy, [Blood Product - Quarantine or Discard](#).

VIII. EXPECTED VALUES:

- A. Blood products must be stored and transported within defined temperature ranges to maintain their safety and quality. These temperature ranges are defined throughout the procedures.

IX. REFERENCES:

1. Extech® Non-contact Forehead IR thermometer User’s Manual, 8/13 v.1.4
2. ScanTemp® Non-contact IR thermometer User's Manual Stand 05/2002



Approval Signatures

Step Description	Approver	Date
	Kristina Davis: Staff Physician	9/30/2024
	Muhammad Arshad: Chief, Pathology	9/27/2024
	Jeremy Powers: Chief, Pathology	9/26/2024
	Ann Marie Blenc: System Med Dir, Hematopath	9/26/2024
	Hassan Kanaan: OUWB Clinical Faculty	9/23/2024
	Masood Siddiqui: Staff Pathologist	9/20/2024
	Ryan Johnson: OUWB Clinical Faculty	9/19/2024
	John Pui: Chief, Pathology	9/19/2024
Policy and Forms Steering Committee (if needed)	Kelly Sartor: Mgr, Division Laboratory	9/18/2024

Karrie Torgerson: Medical Technologist Lead [KS]	9/18/2024
Teresa Lovins: Supv, Laboratory [KS]	9/18/2024
Kristen DiCicco: Mgr, Laboratory	9/18/2024
Fatima Bazzi: Supv, Laboratory	9/18/2024
Katherine Persinger: Mgr, Laboratory	9/17/2024
Ashley Beesley: Mgr, Laboratory	9/17/2024
Hilary Morey: Medical Technologist Lead	9/17/2024
Suzanne Chahine: Medical Technologist Lead	9/17/2024
Kelly Sartor: Mgr, Division Laboratory	9/16/2024
Kelly Sartor: Mgr, Division Laboratory	9/16/2024

