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| **University of Washington,** **Harborview Medical Center****325 9th Ave. Seattle, WA, 98104****Transfusion Services Laboratory****Policies and Procedures Manual** | **Original Effective Date:** **August 21, 2011** | **Number:** **3014-1** |
| **Revision Effective Date:** | **Pages:** **2** |
| **TITLE: Use and Maintenance of the Tempcheck Device** |

**Purpose:**

To describe the use and maintenance of the Tempcheck Device when measuring the temperature of blood products and the lab environment.

**Procedure:**

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| **Step** | **Action** | **Related Documents** |
| Blood Products | * To take the temperature of a blood product:
* Hold the blood product so it is touching the Tempcheck in the center of the monitor platform.
* The portion of the product container that is touching the sensor must be free of labels or condensation, which may act as an insulator.
* Wait until the reading on the LED stabilizes at one temperature for a minimum of 10 seconds.
* The product can be returned to inventory in allocated or available status if the temperature meets the blood storage requirements below.
* The product must be returned to quarantine status if it does not meet the blood storage requirements below.

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| **Blood Product Type** | **Acceptable Temperature Range** |
| Red Cells and Thawed Plasma | 1-10°C |
| Platelets and Thawed Cryo | 20-24°C |

 | * Returning Blood Products to Inventory After Issue
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| DailyQuality Control | * Record the following on the Tempcheck Daily QC Form on the appropriate date:
* Time and Tech ID
* Ambient Temperature—Current temperature reading on the Tempcheck LED. Should be 20-24°C. If outside this range, contact Engineering for thermostat adjustment, and repeat after adjustment. Document corrective action.
* Digital LED temperature reading of R1 Blood Refrigerator.
* Average of two internal thermometers in R1
* Temperature of a refrigerated RBC unit from R1.
* choose a unit that has been in storage > 30 Minutes.
* Temperature should agree with refrigerator temperatures ± 2°
* If RBC temperature does not meet criteria, contact Lead.
 | * Tempcheck Daily QC Form
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| **Step** | **Action** | **Related Documents** |
| Annual Verification | Accuracy of the Tempcheck TC-3 is verified annually, or more often if required, by comparison with a NIST thermometer for each end of the temperature range required.* Ambient Temperature:
* Position the NIST thermometer across the Tempcheck monitor platform.
* Wait 30 minutes for the NIST temperature to stabilize.
* Record temperature readings on Thermometer Calibration Form
* Reading should agree within 1 degree.
* 0°C
* Place wet ice in a plastic bag.
* Insert NIST thermometer into the bag.
* Place bag on the Tempcheck monitor platform, with the probe of the thermometer on the sensor.
* Record readings on the Thermometer Calibration Form.
* Readings should agree within 1 degree.
* Calibration Logs are reviewed by Manager.

. | * Temperature Calibration Form
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| Manufacturer Calibration | * If the calibration results do not agree within a degree, or if drift occurs over time during daily QC, the unit is returned to the manufacturer by calibration.
 | Tropitronics, Inc.319 Mola Ave.Fort Lauderdale, FLA 33301Phone:  954-5278553 954-525-5963 |

**References**

AABB Standards for Blood Banks and Transfusion Services, Current Edition.