[](http://depts.washington.edu/labweb/index.htm)

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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:**  **3014-3** |
| **Revision Effective Date:**  3/17/2014 | **Pages:**  **2** |
| **TITLE: Use and Maintenance of the Tempcheck Device** | | |

**Purpose:**

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** |
| **Temp Trak is not available** | | |
|  | Record the following on the Downtime Tempcheck Daily QC Form on the appropriate date:   * Time (24 hour clock) * Tech ID * Ambient temperature: 20-24oC   If outside this range, contact Facilities Engineering for thermostat adjustment, repeat after 30 minutes and document corrective action. | Downtime  Tempcheck Daily QC Form  Removing Equipment from Service |
| **Blood Products** | | |
|  | If a blood product has been out of monitored storage for more than 30 minutes follow these steps:   1. Place the blood product so it is touching the Tempcheck in the center of the monitor platform. 2. The portion of the product container that is touching the sensor must be free of labels or condensation for they may act as an insulator giving erroneous readings. 3. Wait until the reading on the LED stabilizes at one temperature for a minimum of 10 seconds. 4. The product can be returned to inventory as allocated or available if the temperature meets these blood storage requirements.   **Red Cells and Thawed Plasma 1-10°C**  **Platelets and Thawed Cryo 20-24°C**   1. The product must be placed in quarantine status if it does not meet the blood storage requirements below. | Validation Protocol for Internal Temperature of Blood Products Returned |
| **Step** | **Action** | **Related Documents** |
| **Annual Verification** | | |
|  | Accuracy of Tempcheck TMCK-1 and TMCK-2 are verified annually or more often if required, by comparing with a NIST thermometer each end of the temperature range.  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.  **Note:**  If the calibration results do not agree within a degree return the unit to the manufacturer for further calibration. | Temperature Calibration Form  Tropitronics, Inc.  319 Mola Ave.  Fort Lauderdale, FLA 33301  Phone:  954-5278553  954-525-5963 |

**References**

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