



**BLOOD PRODUCT QUALITY CONTROL**  
Operational Policy

## BLOOD PRODUCT QUALITY CONTROL

Quality assurance of blood product storage via Delta Ice Coolers is maintained with a process for calibration, maintenance, and validation of equipment as defined by Wisconsin Diagnostic Lab (WDL). Quality assurance is critical to ensure the provision of refrigerated blood products conforms to the Association for the Advancement of Blood and Biotherapies (AABB) Standards and other applicable regulations and requirements.

In addition to daily electronic documentation of physical inspections and quarterly preventative maintenance, all blood product quality elements will be reviewed monthly at the Milwaukee County OEM Quality Improvement Committee Meeting attended by EMS Leadership of each EMS agency within Milwaukee County EMS.

### Daily Inspection

Delta Ice Coolers and blood products contained within are inspected daily by the MED Unit crew and documented electronically in Operative IQ (OPIQ) to confirm the following information:

- Delta Ice Coolers
  - Cooler interior and exterior integrity
  - Properly closing lid
  - Digital display temperature
  - Alarm notifications
  - Time remaining for smart unit cooling component
- Blood Products
  - Blood product appearance
    - If the blood product unit or its packaging appear visibly suspicious or compromised, return product to WDL for reinspection via the Blood Product Return process
  - Expiration dates
    - Blood products at **6 days from expiration** should initiate the Blood Product Return process as soon as possible on that date
    - Blood products may be returned prior to 6 days from expiration for operational convenience

Delta Ice Coolers are continually monitored via bluetooth and cellular technology to alert leadership regarding faults or temperature failures. Immediately return the Blood Products to WDL via the Blood Product Return Process.

Notifications of unsatisfactory results will be sent to OEM and FD EMS Supervisor via OPIQ notification. OEM will follow up with WDL on appropriate actions.

### Weekly Tracking

Weekly tracking reports, to include the below information from OPIQ, will be sent to WDL and the FD EMS Supervisor via OPIQ for review:

Initiated: 11/1/2024  
Reviewed/Revised: 12/3/2024  
Revision 1

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- Date/time of inspection
- Provider(s) completing inspection
- Results of daily Delta Ice Cooler Inspections (listed above)
- Results of daily Blood Product Inspections (listed above)

Weekly temperature logs are completed by Delta Ice Temperature monitoring units to be compiled and shared with WDL. Milwaukee County EMS endorses and expects all EMS Providers to follow their agency's internal policies and procedures for privacy and security practices and receive HIPAA training. Any inadvertent, unintentional or negligent act which violates a patient privacy policy must be reported to their Agency's Privacy Officer.

### Blood Check Documentation

- Operative IQ software will be utilized for daily blood quality checks with prompts provided to crews based on the results of the daily check for next best steps.
- Overarching concepts for Blood Quality Control include:
  - Continued documentation regarding equipment in Blood Products
  - Chain of custody regarding Blood Products location
  - Return of Blood Products to WDL immediately if quality concerns identified

### Alerting Process

- Immediate Complications
  - Delta Ice Cooler failure, Blood Product failure
    - Alert Fire Department EMS Supervisor via phone *keep*
    - Alert EMSCOM to contact OEM Deputy Chief Medical Director of Operations
    - OEM Deputy Chief Medical Director to contact Wisconsin Diagnostic Laboratories
- Moderate Complications
  - Blood Product devices administration failure, Operative IQ failure
    - Alert Fire Department EMS Supervisor via phone
    - Alert OEM EMS Leadership through OEM Quality Email
    - OEM Deputy Chief Medical Director to contact Wisconsin Diagnostic Laboratories as needed
- Minor Complications
  - Questions on equipment, quality, or administration; minor Delta Ice Cooler damage
    - Alert Fire Department EMS Supervisor via email
    - Alert OEM EMS Leadership through OEM Quality email