MDHHS Michigan Department of Health & Human Services | Bureau of Emergency Preparedness, EMS and Systems of Care

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2027 DESoC Prehospital Blood Pilot Project
System Consideration Checklist

As prehospital blood (PHB) programs expand throughout Michigan, trauma centers should ensure they are prepared to safely receive patients who have received blood products prior to hospital arrival. This checklist is intended to assist hospitals with education, coordination, and performance improvement.

Checklist

Prehospital

EMS Agencies and Hospitals are strongly encouraged to meet and discuss the following prior to implementation of a prehospital blood program:

- Blood administration protocols.
- Indications for blood or blood component administration.
- Blood or blood components carried and utilized.
- Administration equipment used (blood warmer, tubing, pressure infuser, etc.).
- Blood supplier/partner blood bank.
- EMS documentation and patient handoff expectations.
- Hospital contact for EMS follow-up, questions, and quality improvement discussions.

Emergency Department

Review and educate staff on:

- Prehospital report expectations, including Trauma Team Activation (TTA) and blood bank notification.
- EMS documentation accompanying the patient.
- Type and crossmatch procedures (obtain blood samples from the non-transfusing extremity, when appropriate).
- Massive Transfusion Protocol (MTP) continuation, blood bank communication, and ongoing resuscitation.
- Consider expanding trauma team activation criteria to include trauma patients receiving prehospital blood or blood components.

- Special populations:
    - bleeding disorders
    - pregnancy
    - female of childbearing age
    - Rh status and
    - cultural/religious beliefs

Trauma Program

- Update Trauma Process Improvement and Patient Safety (PIPS) Plan and audit filters to include patients receiving prehospital blood products.
- Monitor patient outcomes, adverse events, and opportunities for improvement.
- Ensure proper post-resuscitation screening and follow-up care for patients after exposure to RhD-positive blood or blood components.

Resources

MDHHS

- Contacts:
  - Aaron Brown – Regional Trauma Coordinator
    - Browna68@michigan.gov
  - Alissa Morrison – Post-Crash Care Coordinator
    - MorrisonA11@michigan.gov
- Regional Trauma Coordinators
- MCA Directory
- State of Michigan Blood Protocol in Section 8
- Regional RPSRO:

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Blood Distributors

- American Red Cross
- Versiti
- UP Regional Blood Center

Association for the Advancement of Blood & Biotherapies

- Standards for Emergency Prehospital and Scheduled Out-of-Hospital Transfusions

Prehospital Blood Transfusion Coalition

- Prehospitaltransfusion.org
  - Research

Allohope Foundation

- Allohopefoundation.org
  - Clinical Practice Guidelines
  - Patient Transfusion Information Sheet