

A Maternal Mortality Message for Providers

Obstetric Hemorrhage

Obstetric hemorrhage is a leading cause of pregnancy-related death in Michigan.

Michigan Data:

- In 2017, there were 7,035 delivery hospitalizations with a hemorrhage diagnosis or procedure code present, equating to 6.5 percent of delivery hospitalizations experiencing hemorrhage.
 - Black women experience a 1.3 times higher hemorrhage diagnosis rate compared to White women.
- During 2012-2016, hemorrhage was a leading cause of pregnancy-related deaths, accounting for 15.3 percent of those deaths.
 - 44.4 percent of pregnancy-related hemorrhage deaths were determined to be preventable.

Readiness

All birthing centers need:

- ✓ Hemorrhage cart with supplies, checklist, and instruction cards.
- ✓ Immediate access to hemorrhage medications.
- ✓ Establish a response team—who to call when help is needed (blood bank, advanced gynecologic surgery, etc.).
- ✓ Establish massive and emergency release transfusion protocols.
 - ✓ Type O-negative, un-crossmatched
- ✓ Unit education on protocols, unit-based drills, and periodic training simulations.

Recognition

- ✓ Proactive assessment of hemorrhage risk
 - ✓ Prenatal, on admission, on-going
- ✓ Measurement of cumulative blood loss
 - ✓ Identify and continually reassess hemorrhage stage
- ✓ Active management of the third stage of labor

Response

For every case:

- ✓ Unit-standard, stage-based, obstetric hemorrhage emergency management plan with checklists.
- ✓ Support program for patients, families, and staff for all significant hemorrhages.

Data Sources:

Michigan Department of Health and Human Services, Michigan Resident Inpatient Files created by the Division for Vital Records and Health Statistics, using data from the Michigan Inpatient Database obtained with permission from the Michigan Health and Hospital Association Service Corporation (MHASC), 2017.

Michigan Department of Health and Human Services, Michigan Maternal Mortality Surveillance Program, 2012-2016.

Reference:

Michigan Alliance for Innovation on Maternal Health, "Implementation Briefing Materials", Obstetric Hemorrhage Bundle.

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