GaPQC AIM Collaborative Obstetric Hemorrhage Bundle

Readiness

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Disclosure

The presenter reports no endorsements or financial relationships that would present a conflict of interest

Objectives

- Identify the components of the hemorrhage cart/kit
- Articulate the risk factors for Hemorrhage
- Verbalize quantification of blood loss
- Explain the Massive Transfusion Protocol
- Discuss the process of Simulation Drills for Hemorrhage management

Obstetrical Hemorrhage

Quantified blood loss during the intrapartum or postpartum period that may lead medical emergency

AIM

What is AIM?

Collaboration

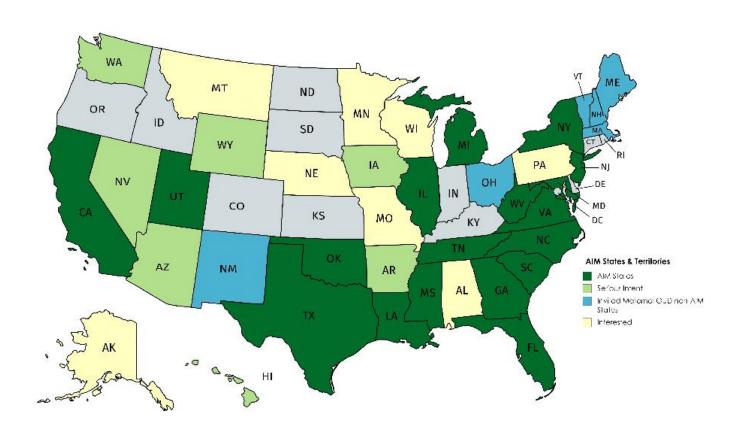
Partnership

Standardization

Evidence-based

Symbiotic Relationship

AIM



Safety Bundle

Readiness

Recognition & Prevention

Response

Reporting / System Learning

Readiness – Hemorrhage Cart

Cart or kit



Readiness – Supplies

Hemorrhage Cart

OB Hemorrhage Medication Kit: Available in L&D and Postpartum Floor

PYXIS/refrigerator

- Pitocin 20 units per liter NS 1 bag
- Hemabate 250 mcg/ml 1 ampule
- Cytotec 200mg tablets 5 tabs
- Methergine 0.2 mg/ml 1 ampule

OB Hemorrhage Tray:

Available on Postpartum Floor

- IV start kit
- 18 gauge angiocath
- 1 liter bag lactated Ringers
- IV tubing
- Sterile Speculum
- Urinary catheter kit with urimeter
- Flash light
- Lubricating Jelly
- Assorted sizes sterile gloves

Labor and Delivery Emergency Hysterectomy Tray: Available in L&D OR Suite

- 4 Towel Clips, Backhaus (perforating) 5 1/4"
- 4 Mosquito, Curved, 5"
- 2 Clamp, Mixter 9"
- 2 Clamp, tonsil
- 2 Clamp, Allis, Extra-long 10"
- 2 Clamp, Allis 6"
- 2 Clamp, Babcock 8"
- 2 Clamp, Babcock 6 1/4"
- 2 Clamp, Lahey 6"
- 2 Clamp, Heaney-Rezak, Straight, 8"
- 8 Kelly, Curved 5 3/4"
- 2 Kelly, Straight 5 3/4"
- 8 Pean Curved, 6 1/4"
- 2 Forceps, Debakev, 9 1/2"
- 1 Forceps, Tissue with teeth 9 3/4"
- 1 Forceps, Russian 8"
- 1 Forceps, Smooth 8"
- 1 Forceps, Ferris Smith

Labor and Delivery Emergency Hysterectomy Tray: Available in L&D OR Suite

- Forceps with Teeth, 6 "
- 1 Forceps, Russian 6"
- · 2 Forceps, Adson with Teeth
- 1 Forceps, Tissue, Smooth, 7"
- · 2 Kocher, Straight, 8"
- 6 Forceps, Heaney, Curved, 8 1/4"
- NH, Mayo Hegar, 8"
- 4 Sponge Stick, 9 1/2"
- 1 Scissor, Jorgensen, Curved, 9"
- 1 Scissors, bandage 7"
- 1 Scissors, curved dissecting, Metzenbaum
- 1 Scissors, Mayo, curved
- 1 Scissors, sharp/blunt, Straight, 5 1/2"
- 1 Scissors, Curved Metzenbaum 12"
- 1 Scissors, Mayo Straight 11"
- 1 Scissors, Mayo Curved 11"
- 1 Knife Handle #3
- 1 Knife Handle #4
- 1 Knife Handle #3, Long
- 1 Retractor, Kelly, large
- 1 Retractor, Deaver, Large, 3" x 12"
- 1 Retractor, Deaver, Medium
- 2 Retractor, Med/large Richardson
- 1 Retractor, Balfour Blades
- 2 Retractor, Goulet, 7 1/2"
- · 1 Suction, Yankauer Tip
- 1 Suction, Pool Tip

Readiness – Process

OB Hemorrhage Toolkit

APPENDICES

APPENDIX A. SAMPLE HEMORRHAGE POLICY AND PROCEDURE

Obstetric Hemorrhage Care Guidelines: Sample Policy and Procedure

POLICY INDEX: O				
POLICY TITLE: Ob	ostetric Hemorrhage Ca			
DEPARTMENT AND USERS DISTRIBUTION: Maternal Child Health, Labor and Delivery, Emer Blood Bank, Intensive Care Unit, Post-Anesthesi				
Original Date of Issue:				
Reviewed Date				

PURPOSE

Revised

The purpose of this protocol is to provide guideline team in the event of obstetric hemorrhage. This pr hemorrhage and identifying stages of hemorrhage

POLICY STATEMENTS

Optimal response to obstetric hemorrhage require multiple disciplines and departments.

- . Obstetric unit, anesthesia department, blood b work together to identify necessary system sug coordinated response to obstetric hemorrhage
- . Obstetric physicians, obstetric RNs, certified n appropriately qualified clinicians are authorized
- . The OB hemorrhage critical pack/cart are alwa emergency in all areas of the hospital where w assignments for stocking and checking the car example: medications will be kept together in a unit; the emergency medication packet will be cart or a separate resuscitation cart will be des
- . The Obstetric (OB) Hemorrhage general and n least every three years.

OB HEMORRHAGE TOOLKIT

DEFINITIONS

General Hemorrhage: ≥500 ml blood loss for vaginal birth: ≥1000 ml bloo Massive Hemorrhage: ≥1500 ml blood loss for any birth

MONITORING

Perform annual assessment of readiness to respond to an obstetric hem-

SUMMARY OF STAGES OF OBSTETRIC HEMORRHAGE A TREATMENT GOALS

Prenatal Screening and Treatment:

Risk assessment

Aggressive treatment of anemia

Risk appropriate blood work on admission

- Stage 0: Prevention and Recognition of OB Hemorrhage in All Births
 - Active Management of Third Stage Labor Ongoing Quantitative Evaluation of Blood Loss
- Ongoing Evaluation of Vital Signs Stage 1: Cumulative Blood Loss >500 ml vaginal birth or >1000 ml cesarean birth -(
 - Vital Signs>15% change or HR ≥110, BP ≤85/45, O2 sat <95% -ORincreased bleeding during recovery or postpartum ACTIVATE HEMORRHAGE PROTOCOL, INITIATE PREPARATIONS, GI NO RESPOSE, MOVE TO PROSTAGLANDINS (HEMABATE, CYTOTEC Information Table; Addendum A)
- Stage 2: Continued Bleeding or Vital Sign Instability and 1000-1500 ml cumulative bi SEQUENTIALLY ADVANCE THROUGH MEDICATIONS AND PROCEDU MOBILIZE HELP & BLOOD BANK SUPPORT:
 - KEEP AHEAD WITH VOLUME AND BLOOD PRODUCTS
- Stage 3: Cumulative Blood Loss > 1500 ml, > 2 units PRBCs given, Vital Signs unstal Intravascular Coagulopathy ACTIVATE MASSIVE TRANSFUSION PROTOCOL AND INVASIVE SUR
 - CONTROL BLEEDING CONTROL BELLDING

OB HEMORRHAGE TOOLKIT

PROCEDURES

Prenatal, Admission and Ongoing Risk Assessment

- Identify and prepare for patients with special considerations: Placenta Preview/Accreta, Bleeding Disorder, or those who decline blood products
- Screen and aggressively treat severe anemia: if oral iron fails, initiate IV Iron Sucrose Protocol (Best Practice: Iron Sucrose Protocol) to reach desired Hgb/Hct, especially for at-risk mothers

Verify Type & Antibody Screen from prenatal record

□Order Type & Screen (lab will notify if 2nd clot needed for confirmation) If prenatal or current antibody screen positive (if not

low level anti-D from Rho-GAM). □Type & Crossmatch 2 units PRBCs

All other patients. ☐Send Clot to blood bank Evaluate for Risk Factors (see below) If medium risk:

□Order Type & Screen □Review Hemorrhage Protocol

If high risk:

☐Order Type & Crossmatch 2 units PRBCs □Review Hemorrhage Protocol

□Notify OB Anesthesia Identify women who may decline transfusion

□Notify OB provider for plan of care

□Early consult with OB anesthesia □Review Consent Form

admit

Known coaquiopathy

Ongoing Risk Assessment

□Evaluate for development of additional risk factors in labor:

- Prolonged 2nd Stage labor
- Prolonged oxytocin use
- Active bleeding
- Chorloamnionitis · Magnesium sulfate treatment

lincrease Risk level (see below) and convert to Type & Screen or

Type & Crossmatch

No history of PPH

□Treat multiple risk factors as High Risk

Admission Hemorrhage Risk Factor Evaluation Low (Clot only) Medium (Type and Screen) High (Type and Cross) No previous uterine incision Prior cesarean birth(s) or uterine surgery Placenta previa, low lying placenta, Singleton pregnancy Multiple gestation Suspected placenta accreta or percreta ≤4 previous vaginal birth >4 previous vaginal births Hematocrit <30 AND other risk factors No known bleeding disorder Platelets <100,000 History of previous PPH Active bleeding (greater than show) on

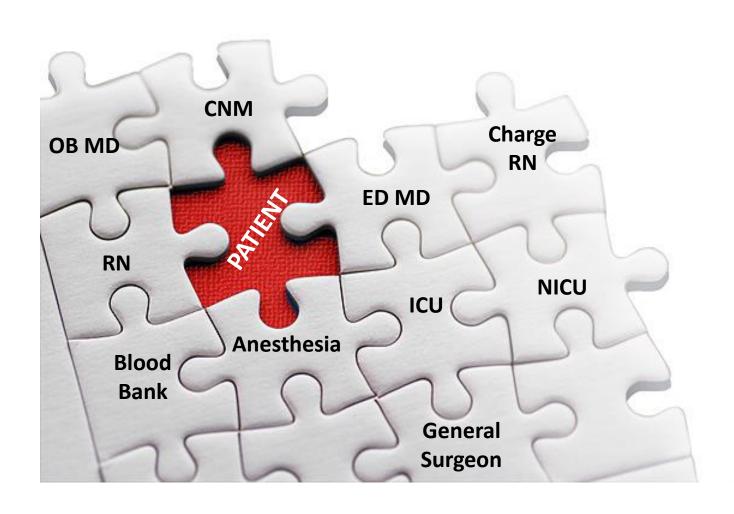
Morbid obesity (BMI >35) "If admitted patients are started on magnesium sulfate they are at higher risk of postpartum hemorrhage.

Large uterine fibroids

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Estimated fetal weight greater than 4 kg

Readiness – Team



Readiness – Blood Loss

Cumulative Quantification



Cumulative Blood Loss

ITEM	Approx. Dry Weight (grams)	"Wet" weight (grams)	Wet weight minus Dry weight = Milliliters (ml) of fluid/blood (may have multiple items)	Total per Item
Cloth Under Pad	639			
Blue Plastic Chux	10			
Delivery Pad (from delivery pack)	15			
Peripad	20			
Large Peripad	65			
Ice Pack	220			
Mesh Panties	0			
Lap Sponge (small)	10			
Lap Sponge (large)	20			
Green Towel	80			
Graduated Container Volume	Estimated Amniotic Fluid Volume / Baseline		Container #1	
	Inigation Fluid Volume Non Blood Sub Total		Container #2 + Minus Non-Blood	
		TOTAL QUANT	TIFIED BLOOD LOSS (ml)	

Readiness – Blood Products

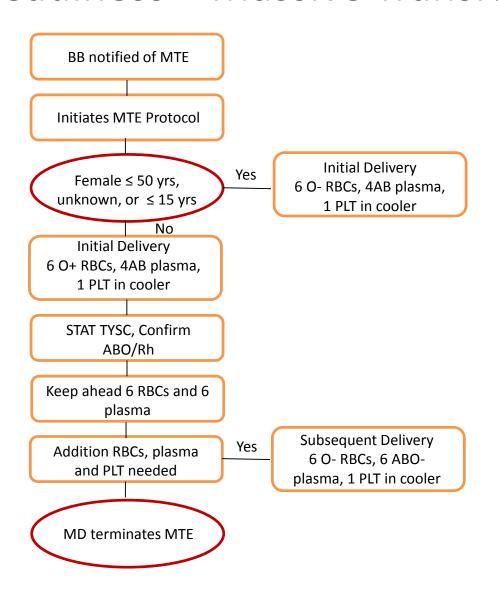
Packed RBC's

Fresh Frozen Platelets

Plasma



Readiness – Massive Transfusion Protocol



Readiness – Practice

Simulation Drills Debriefing



Readiness – Summary



Readiness

Questions?