

WELCOME TO THE MONTHLY LEARNING WEBINAR

The presentation will begin shortly

General Housekeeping



- Use the chat box to register your name, facility represented and all participating team members.
- To prevent distractions, please mute all phones:
 - Please DO NOT put phones on hold to avoid playing background music we are unable to control.
- Use the chat box for questions during the presentation but please hold comments until the end of the session.
- All collaborative members want to learn from your wins and challenges so please share!

AIM Bundles





READINESS

- Hemorrhage cart with supplies, checklist, and instruction cards for intrauterine balloons and compressions stitches
- Immediate access to hemorrhage medications (kit or equivalent)
- Establish a response team who to call when help is needed (blood bank, advanced gynecologic surgery, other support and tertiary services)
- Establish massive and emergency release transfusion protocols (type-O negative/uncrossmatched)
- Unit education on protocols, unit-based drills (with post-drill debriefs)



RECOGNITION & PREVENTION

Every patient

- Assessment of hemorrhage risk (prenatal, on admission, and at other
- Measurement of cumulative blood loss (formal, as quantitative as possible)
- Active management of the 3rd stage of labor (department-wide protocol)



Every hemorrhage

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



REPORTING/SYSTEMS LEARNING

Every unit

- Establish a culture of huddles for high risk patients and post-event debriefs to identify successes and opportunities
- Multidisciplinary review of serious hemorrhages for systems issues
- Monitor outcomes and process metrics in perinatal quality improvement (QI) committee



READINESS

RECOGNITION AND PREVENTION

RESPONSE

REPORTING/SYSTEMS LEARNING



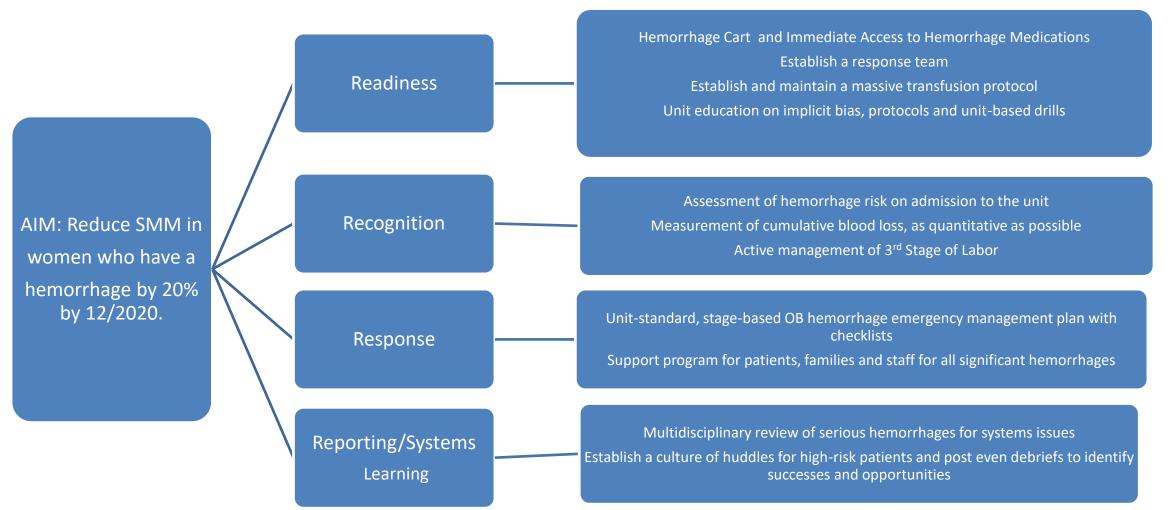


bstetric

Hemorrhage

Hemorrhage Driver Diagram





GaPQC Hemorrhage Goals by 12/2020

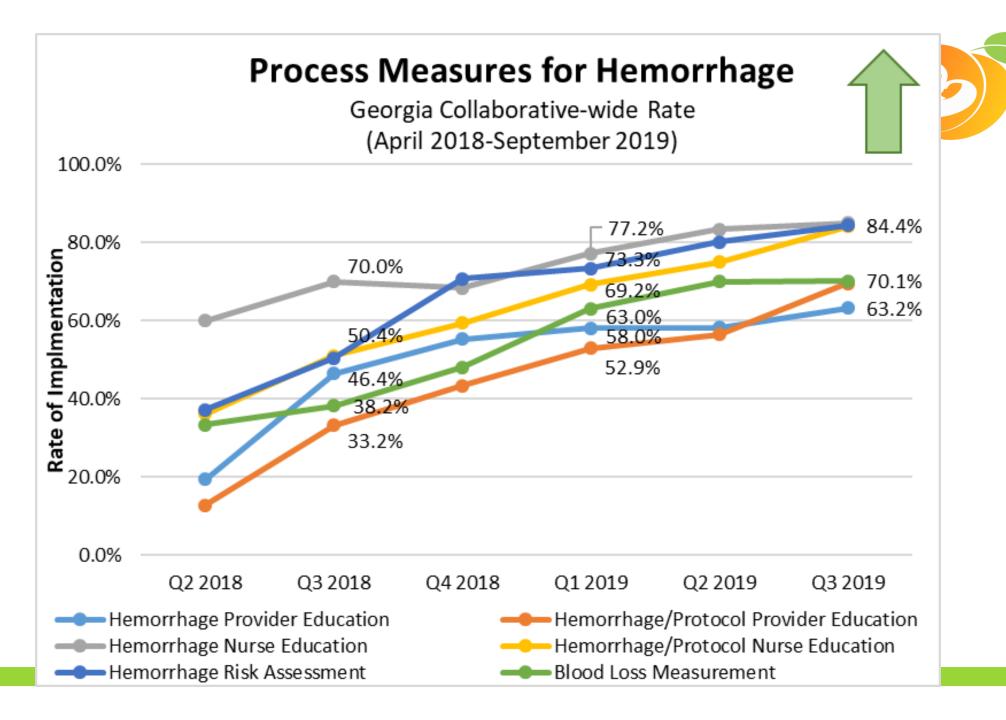
Measure	Туре	Goal
Severe Maternal Morbidity No. of women with severe maternal morbidities (e.g. Acute renal failure, ARDS, Pulmonary Edema, Puerperal CNS Disorder such as Seizure, DIC, Ventilation, Abruption) / No. pregnant & postpartum women with postpartum hemorrhage diagnosis	Outcome	20% reduction
Risk Assessment No. of women had a hemorrhage risk assessment with risk level assigned, performed at least once between admission and birth and shared among the team/ no. of women	Process	100%
Debriefs on all cases requiring ≥4 units RBCs or admission to the ICU	Process	100%
Quantified blood loss No. of women who had measurement of blood loss from birth through recovery period using quantitative and cumulative techniques/no. of women	Process	100%

AIM Hemorrhage Structure Measures

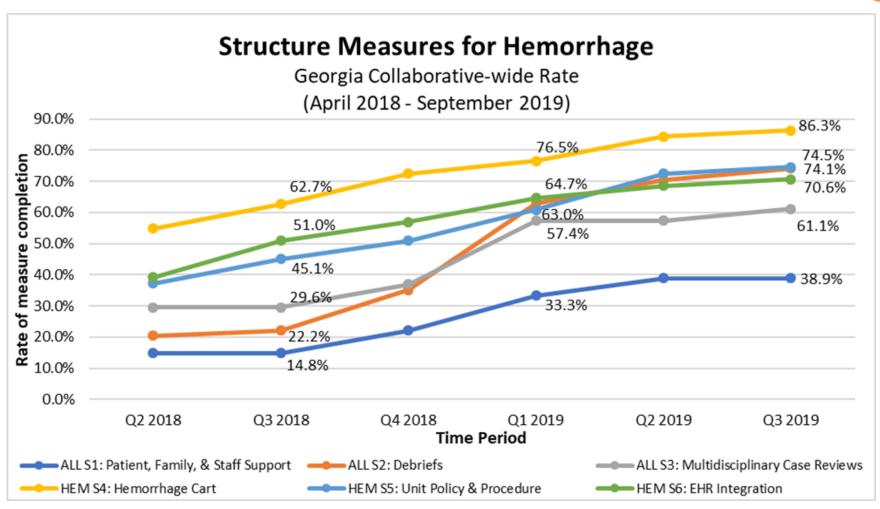
S1: Patient, Family & Staff Support	Report Completion Date Has your hospital developed OB specific resources and protocols to support patients, family and staff through major OB complications?
S2: Debriefs	Report Start Date Has your hospital established a system in your hospital to perform regular formal debriefs after cases with major complications?
S3: Multidisciplinary Case Reviews	Report Start Date Has your hospital established a process to perform multidisciplinary systems-level reviews on all cases of severe maternal morbidity (including women admitted to the ICU, receiving ≥4 units RBC transfusions, or diagnosed with a VTE)?
S4: Hemorrhage Cart	Does your hospital have OB hemorrhage supplies readily available, typically in a cart or mobile box?
S5: Unit Policy and Procedure	Report Completion Date Does your hospital have an OB hemorrhage policy and procedure (reviewed and updated in the last 2-3 years) that provides a stage based management plan with checklists?
S6: EHR Integration	Report Completion Date Were some of the recommended OB Hemorrhage bundle processes (i.e. order sets, tracking tools) integrated into your hospital's Electronic Health Record system?

AIM Hemorrhage Process Measures

P1: Unit Drills	Unit Drills Has your hospital developed OB specific resources and protocols to support patients, family and staff through major OB complications?
P2: Provider Education	Provider Education The number of OB providers and CNMs that completed an educational program on OB hemorrhage? The number of OB providers and CNMs that completed an training on implicit bias?
P3: Nursing Education	Nursing Education The number of OB nurses that completed an education program on the OB Hemorrhage bundle elements and unit standard protocol? The number of OB nurses that completed training on implicit bias?
P4: Risk Assessment	Risk Assessment The number of mothers had a hemorrhage risk assessment with risk level assigned, performed at least once between admission and birth and shared among the team?
P5: Quantified Blood Loss	Measurement of Blood Loss The number of mothers that had measurement of blood loss from birth through the recovery period using quantitative and cumulative techniques?







Implicit Bias Training Resources

- https://implicit.harvard.edu/implicit/takeatest.html
- https://www.traliant.com/implicit-bias-training-unconscious-biastraining

Future training opportunities:

- Train the trainer
- Online Training
- Annual GaPQC meeting



Implementation of an OB Hemorrhage Risk Tool to Improve the Care of High Risk OB Patients Experiencing a Post-Partum Hemorrhage

CARLOTTA GABRIELE, MSN-ED., RN GRACE SOBERS, MSN, RN, WHNP-BC

Grady Background

- ▶ 970 Bed Public Academic Hospital
- ► Regional Perinatal Center
- 2500 deliveries per year
- ▶ 11% Complicated by PPH

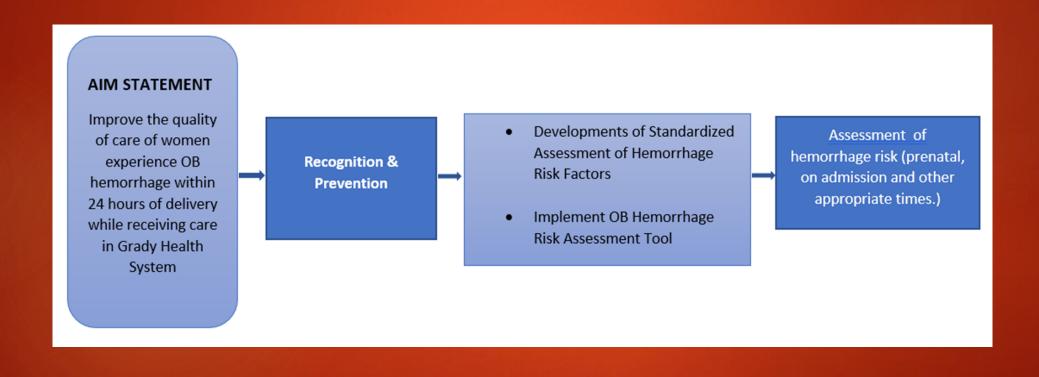


Journey to Excellence

- Emory University
- Morehouse School of Medicine
- Anesthesia
- Nursing Staff
- Nursing Education
- Pharmacy
- ► HIMT
- Quality Department



Key Drivers



Risk Assessment Tool



POSTPARTUM HEMORRHAGE (PPH) RISK ASSESSMENT TABLE • 1.1

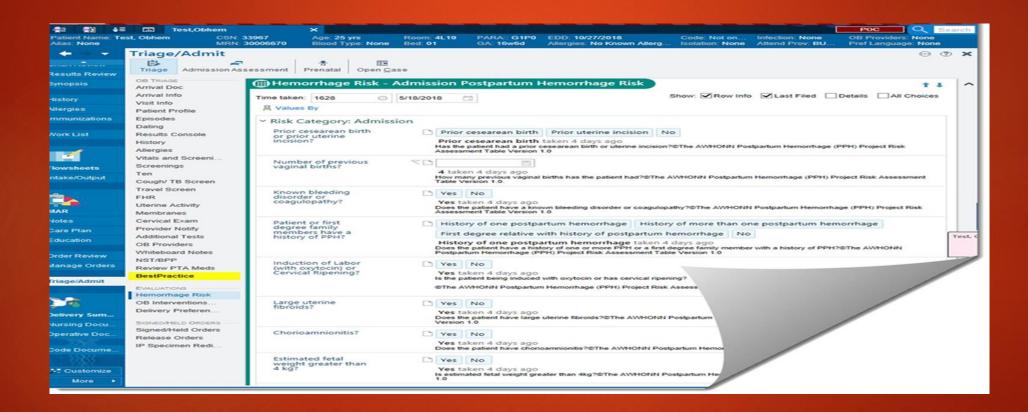
CLINICIAN GUIDELINES:

- Each box represents ONE risk factor. Treat patients with 2 or more medium risk factors as high risk.
- Prenatal risk assessment is beyond the scope of this document, however performing a prenatal hemorrhage risk assessment and planning is highly recommended. Early identification and management preparation for patients with special considerations such as placental previa/accreta, bleeding disorder, or those who decline blood products will assist in better outcomes.
- · Adjust blood bank orders based on the patient's most recent risk category. When a patient is identified to be at high risk for hemorrhage verify that the blood can be available on the unit within 30 minutes of a medical order.
- · Plan appropriately for patient and facility factors that may affect how quickly the blood is risks appropriately for patients and ratingly sectors are may smect now queezy the blood is delivered to the patient. For example, - Patient issues: Pre-existing red cell artiblody - Facility issues: Any problems at your facility related to the blood supply and obtaining blood

		RISK CATEGORY: ADMISSION			
	Low Risk Medium Risk (2 or More Medium Risk Factors Advance Patient to High Risk Status)		High Risk		
	☐ No previous uterine incision	☐ Induction of labor (with oxytocin) or Cervical ripening	☐ Has 2 or More Medium Risk Factors		
	☐ Singleton pregnancy	☐ Multiple gestation	☐ Active bleeding more than "bloody show"		
	☐ ≤4 Previous vaginal births	□ >4 Previous vaginal births	☐ Suspected placenta accreta or percreta		
		☐ Prior cesarean birth or prior uterine incision	☐ Placenta previa, low lying placenta		
	☐ No known bleeding disorder	☐ Large uterine fibroids	☐ Known coagulopathy		
	☐ No history of PPH	☐ History of one previous PPH	☐ History of more than one previous PPH		
		Family history in first degree relatives who experienced PPH (known or unknown etiology with possible coagulopathy)	☐ Hematocrit <30 <u>AND</u> other risk factors		
		☐ Chorioamnionitis	☐ Platelets <100,000/mm3		
		☐ Fetal demise			
		☐ Polyhydramnios			
	Monitor patient for a	Anticipatory Interventions ny change in risk factors at admission and implement anticipatory int	terventions as indicated.		
⊃ Blood Bank	☐ Clot Only (Type and Hold)	☐ Obtain Type and Screen	☐ Obtain Type and Cross (See Clinical Guidelines)		
Order: Change blood bank orders as needed if risk catego- ry changes		□ Notify appropriate personnel such as the Provider (OB MD/CNM), Anesthesia, Blood Bank, Charge Nurse, Clinical Nurse Specialist	Notify appropriate personnel such as the Provider (OB MD/CNM), Anesthesia, Blood Bank, Charge Nurse, Clinical Nurse Specialist		
			Consider delivering at a facility with the appropriate level of care capable of managing a high risk mother		

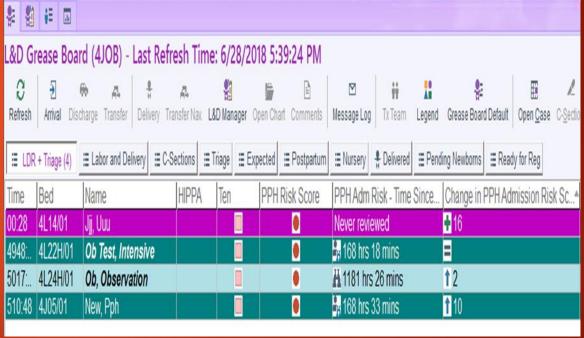


Risk Assessment Tool

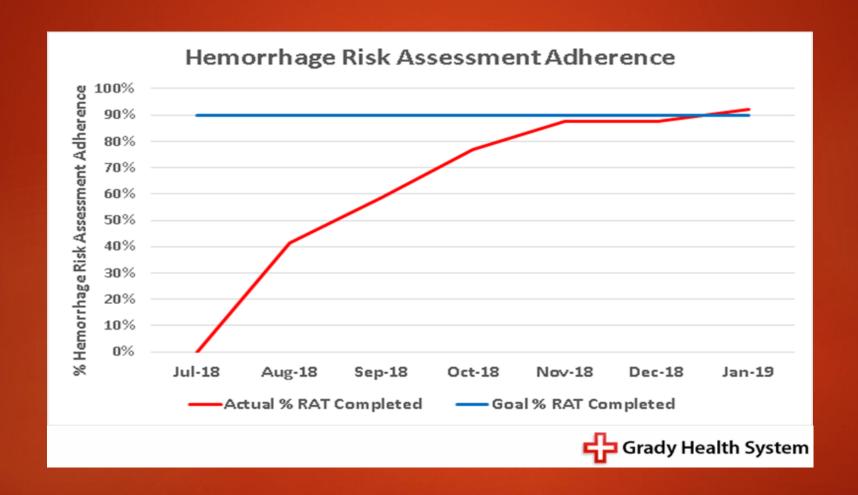


Implementation

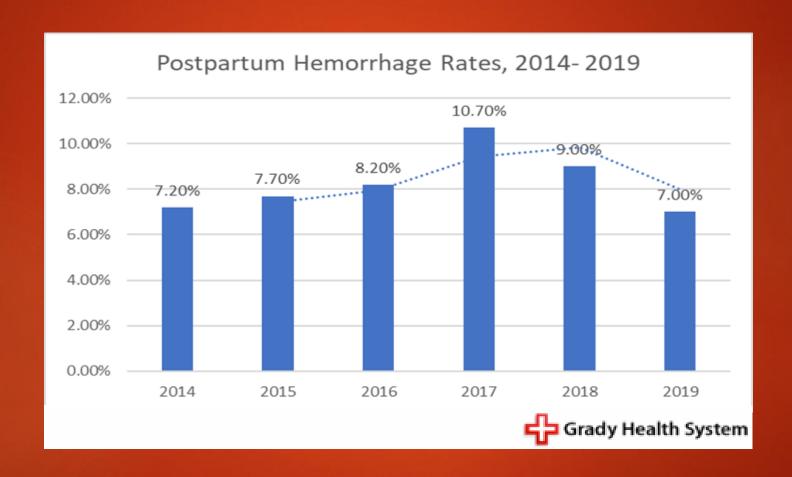




Results



Results



Conclusion



OB Hemorrhage QI Team

Michael K. Lindsay, MD MPH Victoria L. Green, MD

Kathlyn Hutchins, RN

Terri Farrington, RN

Carlotta Gabriele, MSN

Naima T. Joseph, MD MPH

Luanne Lewis

Nikkia H. Worrell, MD

Melanie Schmidt, PharmD

E. Britton Chahine, MD

Penny Castellano, MD

Janice Collins, CNM

Christine Faya, MD

Rosiland Harris, DNP

Department of Nursing Education Practice and Research

Grady Memorial Hospital Executive Leadership



References

Berg, C. J., Harper, M. A., Atkinson, S. M., Bell, E. A., Brown, H. L., Hage, M. L., ... Callaghan W.M. (2005). Preventability of pregnancy-related deaths: Results of a statewide review.

California Department of Public Health. (2011). The California Pregnancy-Associated Mortality Review. Report from 2002 and 2003 maternal death reviews. Sacramento, CA: Author. Retrieved from http://www.cdph.ca.gov/data/statistics/Documents/MO-CAPAMR-Maternal Death Review-2002-03.pdf

Creanga AA, Syverson C, Seed K, Callaghan WM. Pregnancy-related mortality in the United States, 2011–2013. Obstet Gynecol. 2017;130:366–373.

Dahlke, J. et al. (2015). Prevention and management of postpartum hemorrhage: a comparison of 4 national guidelines. Am J Obstet Gynecol, 2015;213:76.el10.

Della Torre, M., Kilpatrick, S. J., Hibbard, J. U., Simonson, L., Scott, S., Koch, A., ... Geller, S. E. (2011). Assessing preventability for obstetric hemorrhage. American Journal of Perinatology, 28(10), 753–760. doi:10.1055/s-0031-1280856

Obstetrics & Gynecology, 106, 1228–1234. doi:10.1097/01.AOG.0000187894.71913.e8 Bingham, D. (2012). Eliminating preventable hemorrhage-related maternal mortality and morbidity. JOGNN, 41, 529-530. DOI: 10.1111/j.1552-6909.2012.0137.x

The Centers for Disease Control and Prevention. Pregnancy Mortality Surveillance System. Retrieved on September 21, 2018 from: https://www.cdc.gov/reproductivehealth/maternalinfanthealth/pregnancy-mortality-surveillance-system.htm

Augusta University Medical Center: OB Emergency Department

Carla Allen, MSN, RNC-OB 12/3/2019



Objectives

- How & why we formalized triage into an OB Emergency Department (OBED)
- The screening tools we use for OBED
- Impacts on maternal care by addressing the care of the postpartum patient



Background

- Augusta University Medical Center (AU Health)is the regional Perinatal Center for the East Central region of Georgia
- We are an academic medical center with approximately 1400 deliveries annually
- New service line: Obstetrics Emergency Department Est. July 2018
 - The first 24/7 Obstetrics Emergency Department (OB ED) in Augusta, Georgia dedicated to treating unexpected pregnancy and post delivery issues
 - Georgia has one of the highest maternal morbidity & mortality rates in the nation so along with pregnant women over 20 weeks we also see postpartum women up to 6 weeks out from delivery



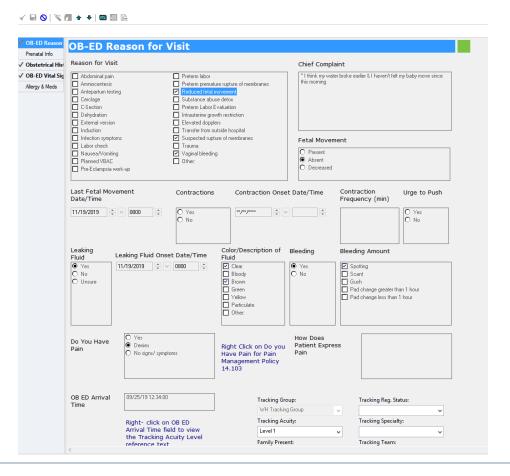
Formalizing the OBED

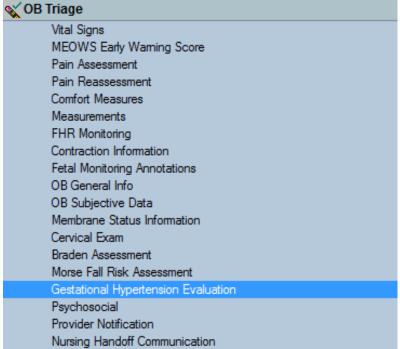
- Interdisciplinary planning meetings began in January 2018
- Nursing superusers identified
 - Policy and workflow development
 - Implementation plan for staffing
- All nurses completed the AWHONN
 Maternal Fetal Triage Index Training
 in May-June 2018
- Purchased ultrasound machine & infant warmer dedicated for this area
- Marketing campaign June-July 2018





Triage Assessments





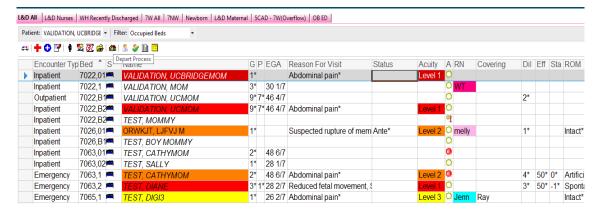
△ Gestational Hypertension Evaluation	✓
Gestational Hypertension Symptoms	None
Edema	Lower Extr
Facial	0 - None
Hand, Bilateral	None
Pre-tibial, Bilateral	None
Ankle, Bilateral	2+ mild
Pedal, Bilateral	2+ mild
Left Knee Reflex	2+
Right Knee Reflex	2+
Left Arm Reflex	2+
Right Arm Reflex	2+
Clonus	Not present
Clonus Number of Beats	
1 Developed	

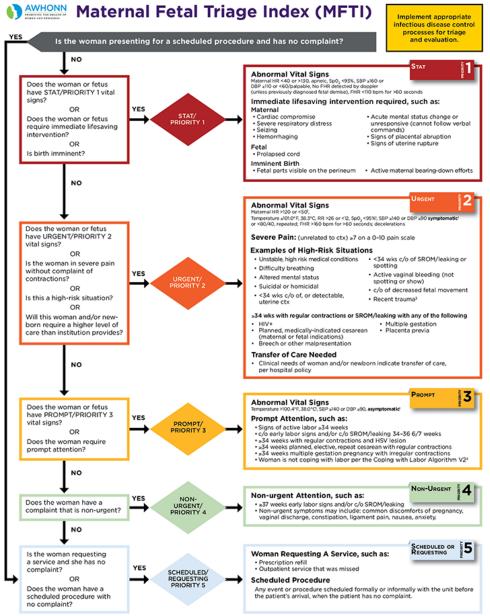


Level of Acuity is assigned based on Chief Complaint using MFTI Algorhithm

 Level 1 is the most acute & should be seen IMMEDIATELY

The level of acuity then flows to our tracking board which alerts the MD of level based on shading on the tracking board (this mimics the MFTI algorithm)







MEOWS Scoring

Vital Signs pull from initial triage data & nurse completes the MEOWS (Medical Early Obstetrical

Warning Signs)

vvai iiiig oigiioj	
	✓
MEOWS Pulse	(0) 60-99
MEOWS Systolic Blood Pressure	(1) Low 80
MEOWS Diastolic Blood Pressure	(1) 90-99
MEOWS Respiatory Rate	(0) 13-20
MEOWS SPO2	(0) 95-100
MEOWS Level of Consciousness	(0) Alert
MEOWS Temperature	(0) 36.1 - 3
MEOWS Urine < 35mL /2hrs	(0) No
MEOWS SCORE	2

MEOWS Reference Score

TOTAL MEOWS SCORE	RESPONSE
0-2	Continue monitoring at ordered frequency.
3-5	 Notify Primary RN of results, including pain & urine output. Re-evaluate VS in 4 hours. If patient has score of 4-5 nurse should assess patient to determine if additional monitoring or physician notification is necessary.
6-8	 Notify Primary RN of results. RN to bedside within 10 minutes to further assess pain and urine output to evaluate impacts on MEOWs score. Re- evaluate VS in 1 hour. If patient has 3 consecutive scores of >6, consider moving patient to higher level of care. Immediate notification of resident MD required if Oliguria (<35ml in 2 hours), maternal agitation/confusion, or patient with hypertension reporting headache or shortness of breath.
9-21	 CALL PRIMARY RN & CHARGE NURSE IMMEDIATELY. Notify Attending MD immediately (should be available at bedside within 10 minutes). Recommended RRT & possible move to higher level of care.

MEOWS SCORE FOR PROTOCOL							
SCORE	3 (Low)	2 (Low)	1 (Low)	0	1 (High)	2 (High)	3 (High)
PULSE	<30	30-40	41-59	60-99	100-120	121-129	130-300
SYSTOLIC BLOOD							
PRESSURE	40-70	71-79	80-89	90-139	140-150	151-160	161-360
DIASTOLIC BLOOD							
PRESSURE				40-89	90-99	100-110	111-360
RESPIRATORY RATE		0-8	9-12	13-20	21-29	30-35	36-100
SPO2	<85	86-90	91-94	95-100			
LEVEL OF					Reacts only	Agitation,	
COUSCIOUSNESS				Alert	if aroused	Confusion	Unresponsive
		< or equal					
TEMPERATURE		to 35.0	35.1-36.0	36.1-37.9	38.0-38.5	>38.5	
URINE				No			Yes



Post Partum Hemorrhage Risk Scoring

- Pre-Birth Scoring
 - Antepartum Patients
 - Intrapartum Patients
 - Done on Admission & at least every shift
- Post—Birth Scoring
 - Postpartum Patients
 - Done immediately post delivery
- Scores create an icon for Medium & High Risk Patients that flow to the tracking board



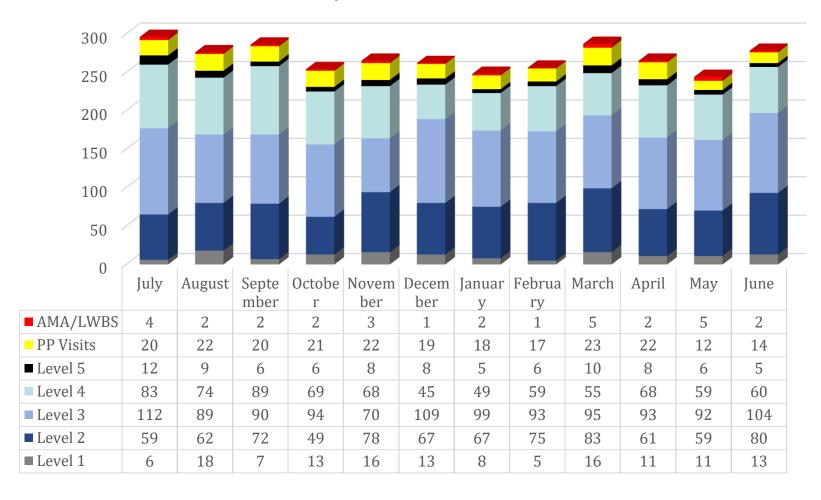
∠ PPH Risk Assessment, Pre-Birth	$\overline{\checkmark}$
Previous Uterine Incision	
Gestation Description	
Previous Vaginal Deliveries	
Bleeding Disorder	
History of PPH	
Family History of PPH	
Induction of Labor	
Large Uterine Fibroids	
Chorioamnionitis	
Estimated Fetal Weight	
BMI	
Polyhydramnios	
Bleeding	
Placental Complications	
Labs	
Length of Labor	
Augmentation of Labor	
Pre-Birth Risks	
PPH Risk Factor Score, PRE-BIRTH	

△ PPH Risk Assessment, Post-Birth	
Large Uterine Fibroids	
Chorioamnionitis	
BMI	
Lacerations	
Delivery Risks	
Delivery Complications	
PPH Risk Factor Score, POST-BIRTH	



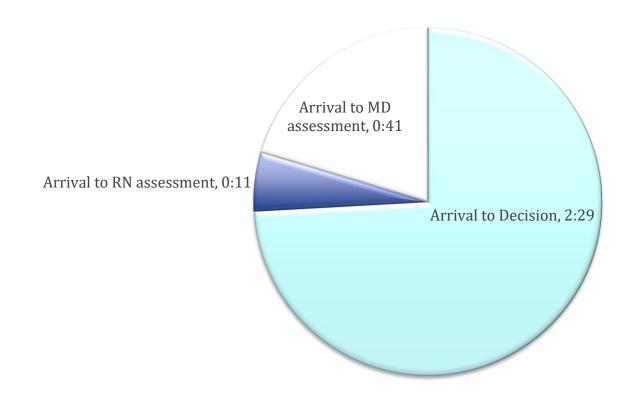
OBED Patient Data

Acuity Levels & PP Visits





Hours Data





Additional Actions

- Review stats monthly at our Perinatal Quality Meeting
- Continue to work on get <2hrs arrival to decision average
- Use Post-Birth Warning Tools & OBED information Card to direct Postpartum patients back to OBED for care



Questions??

Contact Info: Carla Allen – Nurse Manager AUHealth Perinatal Services callen@augusta.edu





Hemorrhage Education Plan

Webinar:

• January 7, 2020: Implicit Bias, Dr. Magloire, Grady Health Systems

Regional Training:

Clinical Simulation Drills and Debrief

Joining the GaPQC Team!







SAVE THE DATE APRIL 23-24, 2020

Georgia Perinatal Quality Collaborative
3rd Annual Meeting

Atlanta, GA

Agenda and registration information to follow.

For more info: Visit www.georgiapqc.org or email info@georgiapqc.org







Questions?