AIM MEASURES for Obstetric Hemorrhage Bundle

Outcome	Description	Data	Reporting	Data Coordinator	Notes
Measures (O)		Source HDD File	Frequency	Options	The CMM Outeens
O1: Severe	Denominator : All mothers during their birth admission, excluding ectopics and miscarriages	(ICD-10)	Quarterly (if available),	State AgencyDesignated Data	The SMM Outcome Measures will also
Maternal	Numerator: Among the denominator, all cases with	(ICD-10)	otherwise	Coordinating	be calculated on an
Morbidity (SMM)	any SMM code		annual	Body/Hospital	annual basis by
Wording (Sivily)	arry Sivilvi code		aiiidai	System	major race/ethnicity
O2: Severe	Denominator: All mothers during their birth	HDD File	Quarterly	State Agency	groups: NH white ,
Maternal	admission, excluding ectopics and miscarriages	(ICD-10)	(if available),	Designated Data	NH black,
Morbidity	Numerator: Among the denominator, all cases with	(102 10)	otherwise	Coordinating	Hispanic, NH
(excluding cases	any non-transfusion SMM code		annual	Body/Hospital	AI/AN, NH
with only a				System	API(NH=Non-
transfusion code)					Hispanic).
among All					
Delivering					Each state will
Women					determine which
	Denominator: All mothers during their birth	HDD File	Quarterly	 State Agency 	race groups to
	admission, excluding ectopics and miscarriages,	(ICD-10)	(if available),	Designated Data	report, but the first
	meeting one of the following criteria:		otherwise	Coordinating	3 are required.
O3: Severe	 Presence of an Abruption, Previa or Antepartum 		annual	Body/Hospital	
Maternal	hemorrhage diagnosis code			System	
Morbidity among	• Presence of transfusion procedure code without a				
Hemorrhage	sickle cell crisis diagnosis code				
Cases	Presence of a Postpartum hemorrhage diagnosis				
	code				
	Numerator: Among the denominator, all cases with				
	any SMM code	LIDE E	Outputs ::li:	- Ctata Assesses	
O4: Severe	Denominator: All mothers during their birth	HDD File	Quarterly (if available),	State Agency Designated Data	
Maternal	admission, excluding ectopics and miscarriages, meeting one of the following criteria:	(ICD-10)	otherwise	Designated DataCoordinating	
Morbidity	Presence of an Abruption, Previa or Antepartum		annual	Body/Hospital	
(excluding cases	hemorrhage diagnosis code		aiiiuai	System	
with only a	Presence of transfusion procedure code without a			Jysiciii	
transfusion code)	sickle cell crisis diagnosis code				
among	Presence of a Postpartum hemorrhage diagnosis				
Hemorrhage	code				
Cases.	Numerator: Among the denominator, all cases with				
	any non-transfusion SMM code				

Process Measures (P)	Description	Data Source	Reporting Frequency	Data Coordinator Options	Notes
P1: Unit Drills	Report # of drills and the drill topics P1a: In this quarter, how many OB drills (In Situ and/or Sim Lab) were performed on your unit for any maternal safety topic? P1b: In this quarter, what topics were covered in the OB drills?	Hospital	Quarterly	Perinatal Nurse ManagerDesignated QI Leader	
P2: Provider Education	Report estimate in 10% increments (round up) P2a: At the end of this quarter, what cumulative proportion of OB physicians and midwives has completed (within the last 2 years) an education program on Obstetric Hemorrhage? P2b: At the end of this quarter, what cumulative proportion of OB physicians and midwives has completed (within the last 2 years) an education program on the Obstetric Hemorrhage bundle elements and the unit-standard protocol?	Hospital	Quarterly	Perinatal Nurse ManagerDesignated QI Leader	Meant to be informal estimates by nursing leadership similar to the CDC survey to assess breastfeeding practices. Cumulative means
P3: Nursing Education	Report estimate in 10% increments (round up) P3a: At the end of this quarter, what cumulative proportion of OB nurses has completed (within the last 2 years) an education program on Obstetric Hemorrhage? P3b: At the end of this quarter, what cumulative proportion of OB nurses has completed (within the last 2 years) an education program on the Obstetric Hemorrhage bundle elements and the unit-standard protocol?	Hospital	Quarterly	◆Perinatal Nurse Manager◆Designated QI Leader	"Since the onset of the project, what proportion of the staff have completed the educational program?"
P4: Risk Assessment	Report estimate in 10% increments (round up) At the end of this quarter, what cumulative proportion of mothers had a hemorrhage risk assessment with risk level assigned, performed at least once between admission and birth and shared among the team?	Hospital	Quarterly	◆Perinatal Nurse Manager◆Designated QI Leader	Meant to be informal estimates by nursing leadership similar to the CDC survey to assess breastfeeding practices.
P5: Quantified	Report estimate in 10% increments (round up) In	Hospital	Quarterly	●Perinatal Nurse	Meant to be

	this quarter, what proportion of mothers had measurement of blood loss from birth through the recovery period using quantitative and cumulative techniques?	Manager • Designated QI Leader	informal estimates by nursing leadership similar to the CDC survey to assess breastfeeding practices.
Blood Loss			Formal measurement can include any method beyond visual estimate alone (eg, under-buttock drapes with gradations, weighing clots and sponges, suction canisters with gradations.

Structure Measures (S)	Description	Data Source	Reporting Frequency	Data Coordinator Options	Notes
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?	Hospital	Once	◆Perinatal NurseManager◆Designated QILeader	
S2: Debriefs	Report Start Date Has your hospital established a system in your hospital to perform regular formal debriefs after cases with major complications?	Hospital	Once	Perinatal NurseManagerDesignated QILeader	Major complications will be defined by each facility based on volume, with a
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)?	Hospital	Once	Perinatal NurseManagerDesignated QILeader	minimum being The Joint Commission Severe Maternal Morbidity Criteria
S4: Hemorrhage	Report Completion Date	Hospital	Once	●Perinatal Nurse	

Cart	Does your hospital have OB hemorrhage supplies readily available, typically in a cart or mobile box?			Manager • Designated QI Leader	
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 unit-standard approach using a stage-based management plan with checklists?	Hospital	Once	◆Perinatal Nurse Manager◆Designated QI Leader	
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?	Hospital	Once	Perinatal Nurse ManagerDesignated QI Leader	It can be any part of the Obstetric Hemorrhage bundle (i.e. orders, protocols, documentation)

AIM MEASURES for Severe Hypertension/Preeclampsia Bundle

Outcome Measures (O)	Description	Data Source	Reporting Frequency	Data Coordinator Options	Notes
O1: Severe Maternal Morbidity (SMM)	Denominator: All mothers during their birth admission, excluding ectopics and miscarriages Numerator: Among the denominator, all cases with any SMM code	HDD File (ICD-10)	Quarterly (if available), otherwise annual	State AgencyDesignated DataCoordinatingBody/HospitalSystem	The SMM Outcome Measures will also be calculated on an annual basis by major race/ethnicity
O2: Severe Maternal Morbidity (excluding transfusion codes)	Denominator: All mothers during their birth admission, excluding ectopics and miscarriages Numerator: Among the denominator, all cases with any non-transfusion SMM code	HDD File (ICD-10)	Quarterly (if available), otherwise annual	●State Agency ●Designated Data Coordinating Body/Hospital System	groups: NH white, NH black, Hispanic, NH AI/AN, NH API(NH=Non- Hispanic).
O3: Severe Maternal Morbidity among Preeclampsia Cases	Denominator: All mothers during their birth admission, excluding ectopics and miscarriages, with one of the following diagnosis codes: • Severe Preeclampsia • Eclampsia • Preeclampsia superimposed on pre-existing hypertension Numerator: Among the denominator, cases with any SMM code	HDD File (ICD-10)	Quarterly (if available), otherwise annual	State Agency Designated Data Coordinating Body/Hospital System	Each state will determine which race groups to report, but the first 3 are required.
O4: Severe Maternal Morbidity (excluding transfusion codes) among Preeclampsia Cases	Denominator: All mothers during their birth admission, excluding ectopics and miscarriages, with one of the following diagnosis codes: • Severe Preeclampsia • Eclampsia • Preeclampsia superimposed on pre-existing hypertension Numerator: Among the denominator, all cases with any non-transfusion SMM code	HDD File (ICD-10)	Quarterly (if available), otherwise annual	●State Agency ●Designated Data Coordinating Body/Hospital System	

Process Measures (P)	Description	Data Source	Reporting Frequency	Data Coordinator Options	Notes
P1: Unit Drills	Report # of Drills and the drill topics	Hospital	Quarterly	Perinatal Nurse	

	P1a: In this quarter, how many OB drills (In Situ and/or Sim Lab) were performed on your unit for any maternal safety topic? P1b: In this quarter, what topics were covered in the OB drills?			Manager •Designated QI Leader	
P2: Provider Education	Report estimate in 10% increments (round up) P2a: At the end of this quarter, what cumulative proportion of OB physicians and midwives has completed (within the last 2 years) an education program on Severe HTN/Preeclampsia? P2b: At the end of this quarter, what cumulative proportion of OB physicians and midwives has completed (within the last 2 years) an education program on the Severe HTN/Preeclampsia bundle elements and the unit-standard protocol?	Hospital	Quarterly		Meant to be informal estimates by nursing leadership similar to the CDC survey to assess breastfeeding practices. Cumulative means
P3: Nursing Education	Report estimate in 10% increments (round up) P3a: At the end of this quarter, what cumulative proportion of OB nurses has completed (within the last 2 years) an education program on Severe HTN/Preeclampsia? P3b: At the end of this quarter, what cumulative proportion of OB nurses has completed (within the last 2 years) an education program on the Severe HTN/Preeclampsia bundle elements and the unit-standard protocol?	Hospital	Quarterly	◆Perinatal Nurse Manager◆Designated QI Leader	"Since the onset of the project, what proportion of the staff have completed the educational program?"
P4: Treatment of Severe HTN	Report N/D Denominator: Women with persistent (twice within 15minutes) new-onset Severe HTN (Systolic: ≥ 160 or Diastolic: ≥ 110), excludes women with an exacerbation of chronic HTN Numerator: Among the denominator, cases who were treated within 1 hour with IV Labetalol, IV Hydralazine, or PO Nifedipine	Hospital	Quarterly	◆Perinatal Nurse Manager◆Designated QI Leader	The hardest part of this measure is to identify cases with persistent Severe Hypertension. Recommended use at least 2 systems (i.e. logbooks, EHR, pharmacy records) for identification of denominator cases.

Structure Measures (S)	Description	Data Source	Reporting Frequency	Data Coordinator Options	Notes
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?	Hospital	Once	Perinatal NurseManagerDesignated QILeader	
S2: Debriefs	Report Start Date Has your hospital established a system in your hospital to perform regular formal debriefs after cases with major complications?	Hospital	Once	Perinatal NurseManagerDesignated QILeader	Major complications will be defined by each facility based on volume, with a
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)?	Hospital	Once	◆Perinatal Nurse Manager◆Designated QI Leader	minimum being The Joint Commission Severe Maternal Morbidity Criteria
S4: Unit Policy and Procedure	Report Completion Date Does your hospital have a Severe HTN/Preeclampsia policy and procedure (reviewed and updated in the last 2-3 years) that provides a unit-standard approach to measuring blood pressure, treatment of Severe HTN/Preeclampsia, administration of Magnesium Sulfate, and treatment of Magnesium Sulfate overdose?	Hospital	Once	◆Perinatal Nurse Manager◆Designated QI Leader	
S5: EHR Integration	Report Completion Date Were some of the recommended Severe HTN/Preeclampsia bundle processes (i.e. order sets, tracking tools) integrated into your hospital's Electronic Health Record system?	Hospital	Once	Perinatal Nurse Manager Designated QI Leader	It can be any part of the Severe Hypertension bundle (i.e. orders, protocols, documentation)