

AIM Severe Hypertension in Pregnancy Data Transition Instructions & Summary of Revisions

Introduction

The purpose of this document is to aid in the data collection transition from the original Severe Hypertension in Pregnancy (SHTN) patient safety bundle (PSB) to the 2022 revised SHTN PSB. It will be useful to state teams and jurisdiction teams who are currently implementing AIM's original SHTN PSB or are planning to implement AIM's 2022 revised SHTN PSB.

This document contains details regarding <u>AIM Data Center instructions and logistics</u> for transitioning from the original to the revised SHTN PSB Data Collection Plan; <u>frequently asked questions (FAQs)</u> to support the data transition; as well as a <u>summary of changes</u> made to AIM's data collection plan as the SHTN PSB to aid in decision making. State and jurisdiction teams may refer to the <u>revised Severe Hypertension in Pregnancy PSB Core Data Collection Plan</u> as they review this document.

AIM Data Center Instructions and Logistics

Determine which of the scenarios below most closely reflects your state or jurisdiction team's bundle implementation and data collection progress and use the corresponding instructions to inform transition planning.

My state or jurisdiction teams **has** collected data using AIM's **original** SHTN Data Collection Plan.

- 1. Review the <u>Summary of Changes</u> table.
- 2. Prepare to transition to the revised metrics which will go live in the AIM Data Center on October 1, 2022. <u>All</u> dashboards in the AIM Data Center will be transitioned to the revised metrics at this time.
- 3. It is not necessary to collect data for all newly added metrics, but it is encouraged if feasible. If facility teams report data using the AIM Data Center, state and jurisdiction teams should determine which metrics their facility teams should continue to report data and communicate forthcoming AIM Data Center updates and instructions for data collection and reporting. Note that facility teams will be unable to report data on discontinued metrics for the reporting period beginning October 1, 2022.

- 4. Your historical data will continue to be available in the AIM Data Center.
 - a. No original format data for the period beginning October 1, 2022, will be accepted. All dashboards in the AIM Data Center will be transitioned to the 2022 revised SHTN Data Collection Plan on October 1, 2022.
 - b. If you have original format data for the period prior to October 1, 2022, you will continue to be able to enter it into the AIM Data Center.

My state or jurisdiction team **has never** collected data using AIM's **original** SHTN Data Collection Plan.

- 1. If your state or jurisdiction team has never collected data using the original SHTN Data Collection Plan, please use the <u>revised SHTN Data Collection Plan</u> for project planning. If using the AIM Data Center for facility team data collection and reporting, metrics for the revised SHTN Data Collection Plan will be available for the reporting period beginning October 1, 2022.
- 2. If your state team or PQC would like to begin collecting data sooner than the reporting period beginning October 1, 2022, <u>and you have your own data collection system</u> (e.g., REDCap), then AIM recommends using the revised metrics.

FAQs

When can facilities report their first period of data for revised HEM metrics in the AIM Data Center?

Facilities can report their first period of data for revised SHTN metrics for the reporting period beginning October 1, 2022.

My state team or jurisdiction team collected data based on AIM's original SHTN Data Collection Plan but never submitted this data to the AIM Data Center. How should I follow AIM's transition instructions?

Please follow the transition instructions identified for "My state team or PQC has collected data using AIM's original SHTN Data Collection Plan" above.

My state team or jurisdiction team wants to collect data for both the original and revised SHTN Data Collection Plans. Is this possible?

Yes, but with some caveats. Only the revised measures will be available to populate with data collected for the reporting period beginning October 1, 2022, forward. You may only enter pre-October 2022 original data into the AIM Data Center. You will need to track any original measures outside of the AIM Data Center for the reporting period beginning October 1, 2022, unless they are retained in the revised plan.

Optional SHTN metrics that can be added to revised SHTN dashboards include a process measure for patient support after persistent severe hypertension.

Please find these cross-referenced metrics outlined in more detail in the <u>table below</u>.

Summary of Changes

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1 (OLD)	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2 (NEW)	RATIONALE
OUTCOME MEASURES		
SEVERE MATERNAL MORBIDITY (O1)	Removed	SMM with transfusions was removed from the formal SMM algorithm, as coding for transfusions has data quality issues that affect reliability and validity. AIM updated its data collection plan to align with the SMM algorithm.
N/A	<u>Retained</u>	Originally O2
	O1: Severe Maternal Morbidity (excluding transfusion codes alone) Denominator: All qualifying pregnant and postpartum people	
	during their birth admission	
	Numerator: Among the denominator, those who	
	experienced a severe maternal	
	morbidity, excluding those who experienced transfusion alone	
SEVERE MATERNAL MORBIDITY AMONG PEOPLE WITH HYPERTENSIVE DISORDERS (O3)	Removed	SMM with transfusions was removed from the formal SMM algorithm, as coding for transfusions has data quality issues that affect reliability and validity. AIM updated its data collection plan to align with the SMM algorithm.

SEVERE HYPERTENSION IN	SEVERE HYPERTENSION IN	RATIONALE
PREGNANCY BUNDLE	PREGNANCY BUNDLE	RATIONALE
VERSION 1	VERSION 2	
(OLD)	(NEW)	
O2: Severe Maternal	Revised	Originally O4
Morbidity Among People	Reviseu	Originally 04
with Hypertensive Disorders	O2: Severe Maternal Morbidity	
(excluding transfusion codes	Among People with	
alone)	Preeclampsia (excluding	Language updated to more
dione,	transfusion codes alone)	accurately reflect AIM's
Denominator: All qualifying	transitision codes alone,	ICD-10 codes list used to
pregnant and postpartum	Denominator: All qualifying	subset the SMM
people during their birth	pregnant and postpartum people	denominator.
admission with hypertensive	during their birth admission with	denominator.
disorders	preeclampsia	
Numerator: Among the	Numerator: Among the	
denominator, those who	denominator, those who	
experienced a severe maternal	experienced a severe maternal	
morbidity, excluding those	morbidity, excluding those who	
who experienced transfusion	experienced transfusion alone	
alone	, o p	
PROCESS MEASURES		
N/A	<u>Retained</u>	
	Timely Treatment of Persistent	
	Severe Hypertension	
	Denominator: Pregnant and	
	postpartum people with acute-	
	onset severe hypertension that	
	persists for 15 minutes or more,	
	including those with preeclampsia,	
	gestational or chronic	
	hypertension	
	Numerator: Among the	
	denominator, those who were	
	treated within 1 hour with IV	
	Labetalol, IV Hydralazine, or PO	
	Nifedipine The 1 hour is measured	
	from the first severe range BP	
	reading, assuming confirmation of	
	persistent elevation through a	
	second reading.	

SEVERE HYPERTENSION IN	SEVERE HYPERTENSION IN	RATIONALE
PREGNANCY BUNDLE	PREGNANCY BUNDLE	10111010122
VERSION 1	VERSION 2	
(OLD)	(NEW)	
N/A	Added	Timely postpartum follow
		up care for people with
	Scheduling of Postpartum Blood	hypertensive disorders
	Pressure and Symptoms Checks	aligns with ACOG
		Committee Opinion 736 on
	P2A: Severe Hypertension	Optimizing Postpartum
	During the Birth Admission	<u>Care</u> and may help
		facilitate the timely
	Denominator: Pregnant and	recognition and treatment
	postpartum people during their	of hypertensive
	birth admission with acute-onset	emergencies
	severe hypertension that persists	
	for 15 minutes or more, including	
	those with preeclampsia, gestational or chronic	
	hypertension	
	Numerator: Among the	
	denominator, those who had a	
	postpartum blood pressure and	
	symptoms check scheduled to	
	occur within 3 days after their birth	
	hospitalization discharge date	
	P2B: All Other Hypertensive	
	Disorders During Pregnancy	
	Denominator: Pregnant and	
	postpartum people during their	
	birth admission with a	
	documented diagnosis of	
	preeclampsia, gestational or	
	chronic hypertension, excluding	
	those who experienced persistent	
	severe hypertension during their birth admission (see P5A)	
	Numerator: Among the	
	denominator, those who had a	
	postpartum blood pressure and	
	symptoms check scheduled to	
	occur within 7 days after their birth	
	hospitalization discharge date	

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1 (OLD)	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2 (NEW)	RATIONALE
OB PROVIDER EDUCATION At the end of this reporting period, what cumulative proportion of delivering physicians and midwives has completed within the last two years an education program on Severe Hypertension/Preeclampsia that includes the unit-standard protocols and measures?	P3A: OB Provider Education on Severe Hypertension and Preeclampsia At the end of this reporting period, what cumulative proportion of delivering physicians and midwives has completed within the last two years an education program on Severe Hypertension/Preeclampsia that includes the unit-standard protocols and measures? P3B: OB Provider Education on Respectful and Equitable Care At the end of this reporting period, what cumulative proportion of OB providers had received in the last 2 years an education program on respectful and equitable care?	Addition of respectful and equitable care (P2B).

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2	RATIONALE
(OLD)	(NEW)	
OB NURSING EDUCATION	Revised	Addition of respectful
At the and of this reporting	DAA: OR Newsing Education on	and equitable care
At the end of this reporting period, what cumulative	P4A: OB Nursing Education on Severe Hypertension and	(P2B).
proportion of OB nurses	Preeclampsia	
(including L&D and		
postpartum) has completed	At the end of this reporting period,	
within the last two years an	what cumulative proportion of OB	
education program on Severe	nurses (including L&D and	
Hypertension/Preeclampsia that includes the unit-	postpartum) has completed within	
standard protocols and	the last two years <u>an education</u> program on Severe	
measures?	Hypertension/Preeclampsia that	
medsures.	includes the unit-standard protocols	
	and measures?	
	P4B: OB Nursing Education on	
	Respectful and Equitable Care	
	At the end of this reporting period,	
	what cumulative proportion of OB	
	nurses (including L&D and	
	postpartum) had received within the	
	last 2 years <u>an education program on</u>	
	respectful and equitable care?	
N/A	<u>Added</u>	ED provider and nursing
		education on signs and
	ED Provider and Nursing	symptoms of severe
	Education – Severe Hypertension	hypertension and
	in Pregnancy and Preeclampsia	preeclampsia in
	At the end of this reporting period,	pregnant and postpartum people may
	what cumulative proportion of	help facilitate timely
	clinical ED providers and nursing	recognition and
	staff has received within the last two	response to
	years education on signs and	emergencies.
	symptoms of severe hypertension	
	and preeclampsia in pregnant and	
	postpartum people?	

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2	RATIONALE
(OLD)	(NEW)	
N/A	<u>Retained</u>	
	Unit Drills (P6)	
	P6A:	
	In this reporting period, how many	
	OB drills (In Situ and/or Sim Lab) were performed on your unit for any	
	maternal safety topic?	
	maternal salety topics	
	P6B:	
	In this reporting period, what topics	
	were covered in the OB drills?	
STRUCTURE MEASURES		
PATIENT, FAMILY & STAFF	<u>Revised</u>	Now specific to patients
SUPPORT (S1)	D.: 15 10115 (64)	only.
REPORT COMPLETION DATE	Patient Event Debriefs (S1)	This will use the new
REPORT COMPLETION DATE	Has your department established a	Structure Measure
Has your hospital developed	standardized process to conduct	Likert-type scale ranging
OB specific resources and	debriefs <u>with patients</u> after a severe	from 1: Not started to 5:
protocols to support patients,	event?	Fully in place.
family, and staff through		
major OB complications?		Details on this new
		measurement scale will be communicated
		separately.
		Separacely.

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1 (OLD)	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2 (NEW)	RATIONALE
DEBRIEFS (S2) REPORT START DATE	Revised Clinical Team Debriefs (S2)	Reworded for clarity, intent remains unchanged.
Has your hospital established a system in your hospital to perform regular formal debriefs after cases with major complications?	Has your department established a system to perform regular formal debriefs with the clinical team after cases with major complications?	This will use the new Structure Measure Likert-type scale ranging from 1: Not started to 5: Fully in place. Details on this new measurement scale will be communicated separately.
MULTIDISCIPLINARY CASE REVIEWS (S3)	<u>Revised</u>	This will use the new Structure Measure
REPORT START DATE	Multidisciplinary Case Reviews (S3)	Likert-type scale ranging from 1: Not started to 5: Fully in place.
Has your hospital established a process to perform multidisciplinary systems-level reviews on cases of severe maternal morbidity (including, at a minimum, birthing patients admitted to the ICU or receiving ≥ 4 units RBC transfusions?	Has your hospital established a process to perform multidisciplinary systems-level reviews on cases of severe maternal morbidity (including, at a minimum, birthing patients admitted to the ICU or receiving ≥ 4 units RBC transfusions)?	Details on this new measurement scale will be communicated separately.

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1 (OLD)	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2 (NEW)	RATIONALE
UNIT POLICY AND PROCEDURE (S5) REPORT COMPLETION DATE	Revised Unit Policies and Procedures (S4)	This will use the new Structure Measure Likert-type scale ranging from 1: Not started to 5:
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?	Does your hospital have a Severe HTN/Preeclampsia policy and procedure (reviewed and updated in the last 2 years) that provides a unitstandard approach to: • S4A: Measuring blood pressure, • S4B: Treatment of severe hypertension/preeclampsia • S4C: The use of seizure prophylaxis, including treatment overdose	Fully in place. Details on this new measurement scale will be communicated separately.
EHR INTEGRATION (S6)	Removed	No specific mention of EHR in bundle language. Also, non-specific, and difficult to assess on the aggregate level in a meaningful way.
	Added Patient Education Materials on Urgent Postpartum Warning Signs (S5) Has your department developed/curated patient education materials on urgent postpartum warning signs that align with culturally and linguistically appropriate standards?	This will use the new Structure Measure Likert-type scale ranging from 1: Not started to 5: Fully in place. Details on this new measurement scale will be communicated separately.

SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 1 (OLD)	SEVERE HYPERTENSION IN PREGNANCY BUNDLE VERSION 2 (NEW)	RATIONALE
	<u>Added</u>	This will use the new
		Structure Measure
	Emergency Department (ED)	Likert-type scale ranging
	Screening for Current or Recent	from 1: Not started to 5:
	Pregnancy (S6)	Fully in place.
	Hanney ED antablished as	Dataila an this man
	Has your ED established or	Details on this new
	continued standardized verbal	measurement scale will
	screening for current pregnancy and	be communicated
	pregnancy in the past year as part of	separately.
	its triage process?	

Additional questions? Contact the AIM Data Team at <u>aimdatasupport@acog.org</u>.