



Maternal Hypertension Initiative

March Action Period Call

Baseline Data Review

Severe Hypertension Identification & Management

March 26, 2021



Welcome!



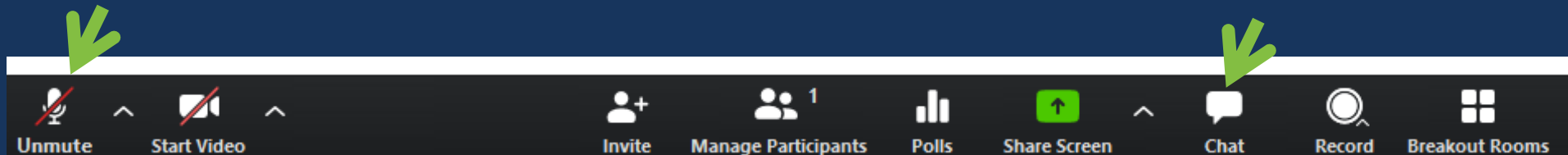
- Please type your **name** and **institution** you represent in the chat box and send to “Everyone”.
- Please also do for all those in the room with you viewing the webinar.
- Thank You!



Welcome!



- Attendees are automatically muted to reduce background noise. Please do not put your phone on hold as music will play
- You may enter questions/comments in the “chat” box during the presentation. We will have Q&A session at the end
- Slides will be available via email and at www.alpqc.org
- We are now recording



Agenda



Updates & Questions		12:05 – 12:10
Baseline Data Review & Updates		12:10 – 12:30
Severe HTN Identification & Management, Team Share		12:30 – 12:50
Q & A		12:50 – 1:00



Maternal HTN

Updates & Questions

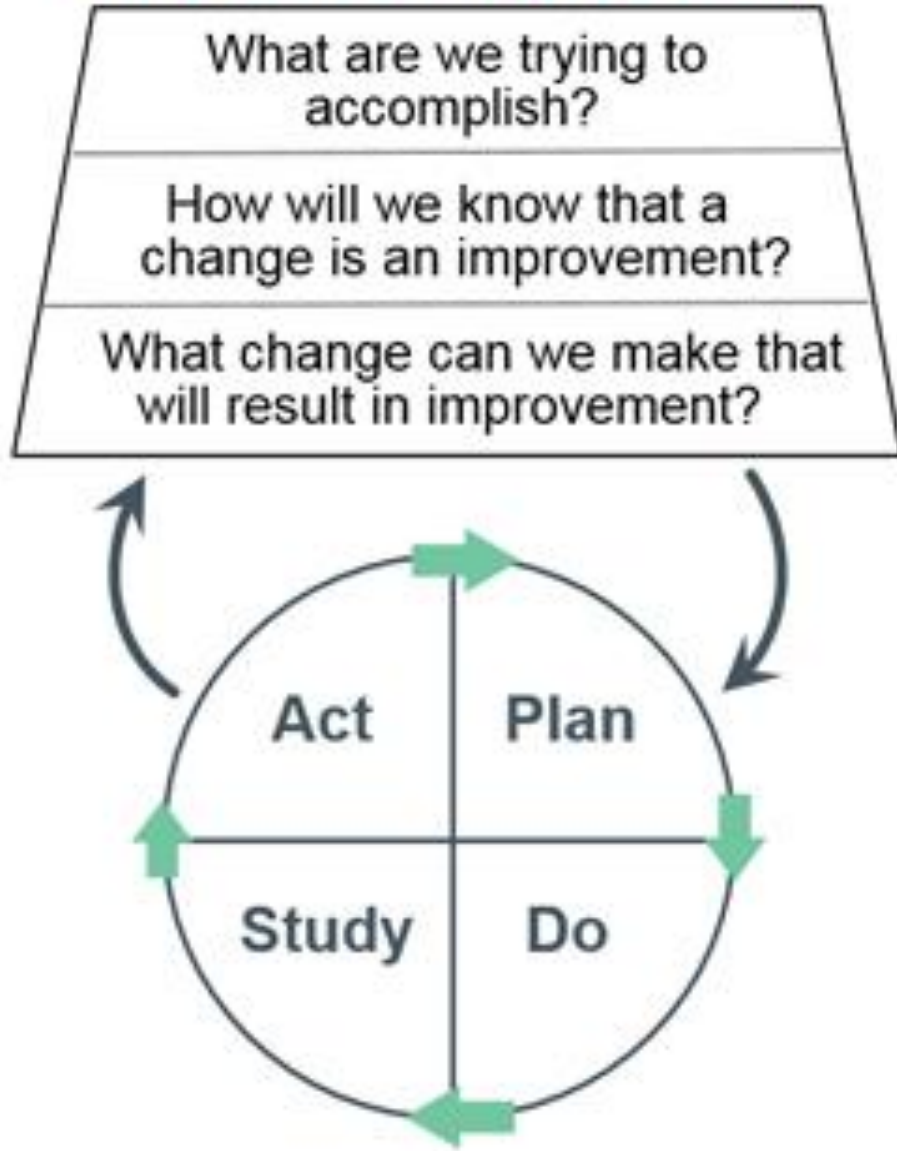
Coaching call lessons learned

- Which patients are included
- Identification of patients
 - E.g. Who's not included?
- Treatment protocols
 - Website protocols/ACOG are examples

Baseline Data Review & Updates

Why This Matters

Model for Improvement



Setting your SMART aim



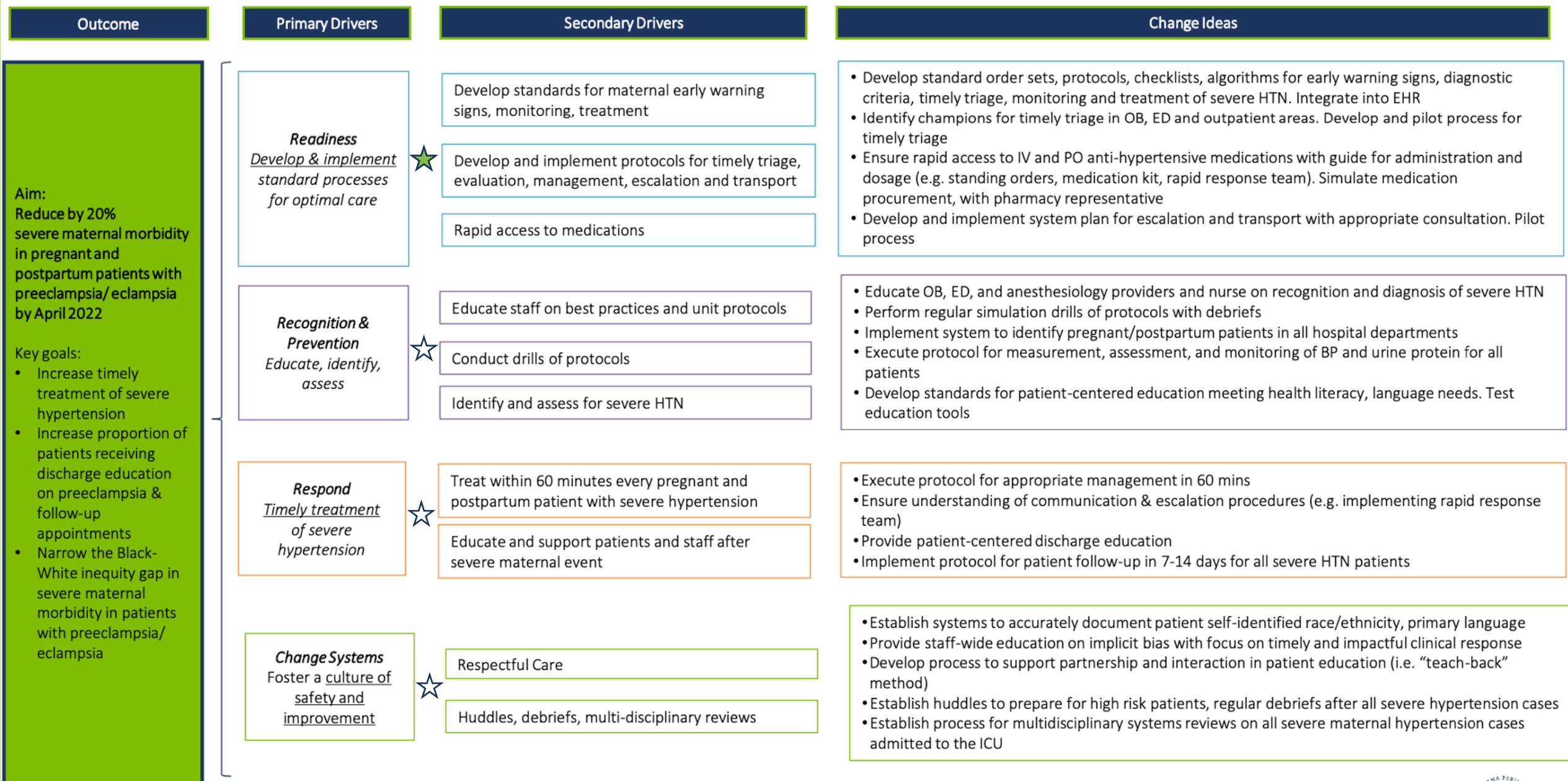
Measurement Strategy



Key Driver Diagram



Testing Changes via PDSA cycles



Maternal Hypertension Driver Diagram

Baseline Data



Measure Type	Measure	Source	Measurement Period
Process	P1. Timely treatment of Severe Hypertension	IT report, chart review	<p>Monthly basis:</p> <ul style="list-style-type: none"> December 2020 January 2021 February 2021 <p><u>Note:</u></p> <ul style="list-style-type: none"> Baseline: in aggregate (numerator/denominator) Initiative: individual patient level
Outcome	02. Severe Maternal Morbidity (SMM)	IT report	<p>Quarterly basis:</p> <ul style="list-style-type: none"> January-March 2020 April-June 2020 July-September 2020 October-December 2020 <u>January-February 2021</u>
Outcome	03. SMM (excluding transfusion codes)	IT report	
Outcome	04. SMM among Preeclampsia Cases	IT report	
Outcome	05. SMM among Preeclampsia Cases (excluding transfusion codes)	IT report	

Measures in **bold** denote priority

Measures Reported by Race/Ethnicity

Baseline data Due March 31



Data Reporting Frequency



Measure Type	Measure	Reporting Frequency
Outcome	01. Number of patients with persistent severe HTN	Monthly
Outcome	02. Severe Maternal Morbidity (SMM)	
Outcome	03. SMM (excluding transfusion codes)	
Outcome	04. SMM among Preeclampsia Cases	
Outcome	05. SMM among Preeclampsia Cases (excluding transfusion codes)	
Process	P1. Time to treatment of persistent severe HTN – <i>within 60 min/60-120 min/>120 min/no meds given</i>	
Process	P2. Follow-up appointment scheduled within 7-14 days – <i>yes/no/unknown</i>	
Process	P3. Patient education – <i>yes/no/unknown</i>	

Due on the last day
of the following
month

March data due April
30, 2021



Data Reporting Frequency

Measure Type	Measure	Reporting Frequency
Process	P3. Provider education - % who completed education	Quarterly
	P4. Provider education - % who completed education	
	P5. Unit drills - # of OB drills, topics	

Due a month after
quarter ends

Jan-March 2021
quarter due
April 30

Data Reporting Frequency

Measure Type	Measure	Reporting Frequency
Structural	S1. Severe HTN/Preeclampsia policies and procedures for pregnant and postpartum patients	Once per initiative yes/no/ in progress
	S2. Debriefs	
	S3. Multi-disciplinary case review protocols	
	S4. Patient/Family/Staff Support Resources and Protocols	
	S5. Severe HTN/Preeclampsia bundle processes (i.e. order sets, tracking tools) integration into hospital's EHR system	

Data Collection

Step 1: **Start** with ICD-10 Codes*

Step 2: Inclusion Criteria

Step 3: Collect Measures

Step 4: Enter Data Into Data Portal

*Find ICD-10 codes on our website at www.alpqc.org/initiatives/htn/, under the “Data Resources” menu

Step 2: Inclusion Criteria

- ✓ Pregnant (delivery admission)/Postpartum patients with persistent elevated BP ≥ 160 systolic or ≥ 110 diastolic
- ✓ Any inpatient location: L&D, triage, ED, antepartum, postpartum
- ✓ Include patients with chronic/gestational HTN
- ✓ Maternal transfers:
 - Transferred out: Transferring hospital should enter data into portal on any patients that meet criteria before they were transferred.
 - Transferred in: Receiving hospital should enter data into portal ONLY on patients that meet the above requirements at their facility. If a patient has already been started on medications for elevated BP prior to arriving at your facility, do not complete a data form.

P1: Time to Treatment of Severe HTN

- ❖ Aim to report data for all patients with persistent severe HTN
- ❖ If unable to report for all patients, you may select sample:
 1. Facilities with <200 births/yr : sample of 5 charts/month
 2. Facilities with >200 births/yr : sample if 10 charts/month
- ❖ *If sampling, it is critical that you pull patients randomly in order to avoid selection bias.*
 - *You may use random calculator at <https://www.random.org/>*

Step 3: Collect Baseline Measures

Excel Data Entry Tools

ALPQC Maternal Hypertension Initiative BASELINE Outcome Measures Form			
Instructions: Use this document to help collect baseline outcome data for the Maternal HTN initiative. Ask your IT department to generate a report for the measures below. See "HTN Outcome Measures Codes" and "Baseline Data Collection Instructions" on our website under the "Data Resources" menu: https://www.alpqc.org/initiatives/htn/			
Time period: Quarterly (note the last quarter only goes to February 2021) January – March 2020 April – June 2020 July – September 2020 October – December 2020 January – February 2021			
If unable to report baseline data for all four SMM Outcome Measures, the <u>priority measures</u> are: •O3. SMM (excluding transfusion codes) •O5. SMM (excluding transfusion codes) among Preeclampsia Cases Note: If for ex. a patient identifies as Hispanic and Black, enter them in the portal as Hispanic. Denominator will change with each racial/ethnic group.			
Hover over cells below to see exact wording of measures by racial/ethnic group. *Denotes required field			
O2. Severe Maternal Morbidity (SMM)		O3. SMM (excluding transfusion codes)	
Denominator: Total number of patients during their birth admission, <i>excluding ectopics and miscarriages</i>	Numerator: Among the denominator (left), number of patients with any SMM code	Denominator: Total number of patients during their birth admission, <i>excluding ectopics and miscarriages</i>	Numerator: Among the denominator (left), number of patients with any SMM code
*All patients		*All patients	
*Hispanic/Latino		*Hispanic/Latino	
NH American Indian/Alaska Native		NH American Indian/Alaska Native	
NH Asian		NH Asian	
*NH Black/African American		*NH Black/African American	
*NH White		*NH White	
Other race/ethnicity		Other race/ethnicity	
Unknown race/ethnicity		Unknown race/ethnicity	

ALPQC Maternal Hypertension Initiative BASELINE Process Measure Form			
Instructions: Use this document internally to help you track chart reviews of patients with persistent (twice within 15 minutes) severe hypertension*.		*Persistent severe hypertension defined as ≥ 160 systolic or ≥ 110 diastolic twice within 15 minutes antepartum or postpartum, excluding: readings during pushing, >20 min after epidural, or in the presence of another known etiology for elevated BP (e.g. sickle cell pain crisis, chemotherapy, etc.). Severe values do not need to be consecutive.	
Aim to complete for all patients with persistent severe hypertension.** If unable to complete for all cases in a month and you choose to do a sample, it is critical that you pull patient charts randomly to avoid selection bias. If doing a sample: Use a random calculator like https://www.random.org/ Small facilities (<200 births/yr): 5 charts/ month Large facilities (>200 births/yr): 10 charts/month		**Patients can be identified by: 1) using ICD-9I-10 codes (Measure #O1: deliveries each month with code for severe preeclampsia, eclampsia, preeclampsia superimposed on pre-existing hypertension), 2) using an L&D logbook, 3) building onto EHRs triggers and ability to query for severe range BPs 4) searching pharmacy logs for antihypertensive medications (note: while pharmacy logs are good for approximating a value, you may miss instances of severe range BP if these were not used). Use of at least 2 methods recommended.	
Hover over cells below to see exact wording of numerator/denominator by racial/ethnic group. * Denotes required field.			
P1. Time to Treatment – Baseline Data			
Denominator: Number of patients with persistent severe hypertension	Totals: 0	Numerator: Time to treatment: Within 60 min	Totals: 0
*All patients	0	All patients	0
*Hispanic/Latino	0	Hispanic/Latino	0
NH American Indian/Alaska Native	0	NH American Indian/Alaska Native	0
NH Asian	0	NH Asian	0
*NH Black/African American	0	NH Black/African American	0
*NH White	0	NH White	0
Other race/ethnicity	0	Other race/ethnicity	0
Unknown race/ethnicity	0	Unknown race/ethnicity	0
Patient Chart # (assign a number to help track data collection - no PI)	Patient Race/Ethnicity: (Please Select Below)	Patient meets requirements for persistent severe hypertension? (Select Below)	Time to treatment with antihypertensive medication (Select Below)

Step 4: Enter Data Into Data Portal



Data Portal Overview

Project: Maternal Hypertension Project

Select a topic:

BASELINE Data

- + Enter baseline outcome data
- + Select measurement period for baseline process data
- + Enter baseline process data

INITIATIVE Data

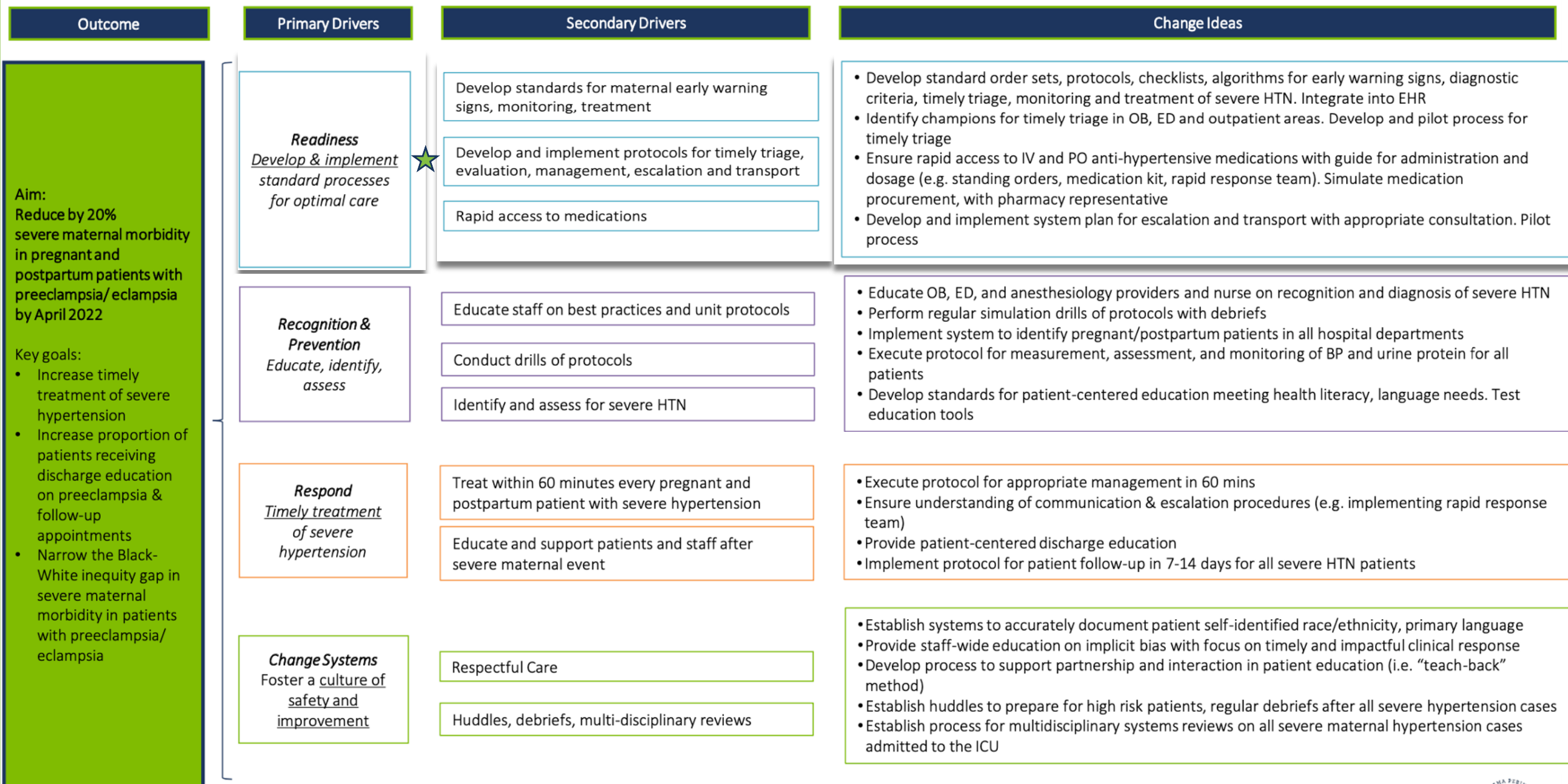
- + Step 1 – Enter monthly outcome data
- + Step 2 – Select measurement period for monthly process data
- + Step 3 – Enter monthly process data >
- + Step 4 – Take brief monthly self-assessment
- + Quarterly Process Data
- + Structural Measures – Once per initiative

 Create Reports

[Back to Project List](#)

Severe Hypertension

Identification and Management



Maternal Hypertension Driver Diagram



Severe Hypertension Monitoring, Validation, and Escalation

Amy McRae & Genevieve Mantell
Quality Management
USA Health Children's & Women's Hospital





Severe Hypertension Readiness – Processes for Optimal Care

Brian Brocato

Assistant Professor, OBGYN – Maternal Fetal Medicine

Department of Obstetrics and Gynecology

UAB Medicine

Obstetric Lead, ALPQC



Readiness: Processes for optimal care



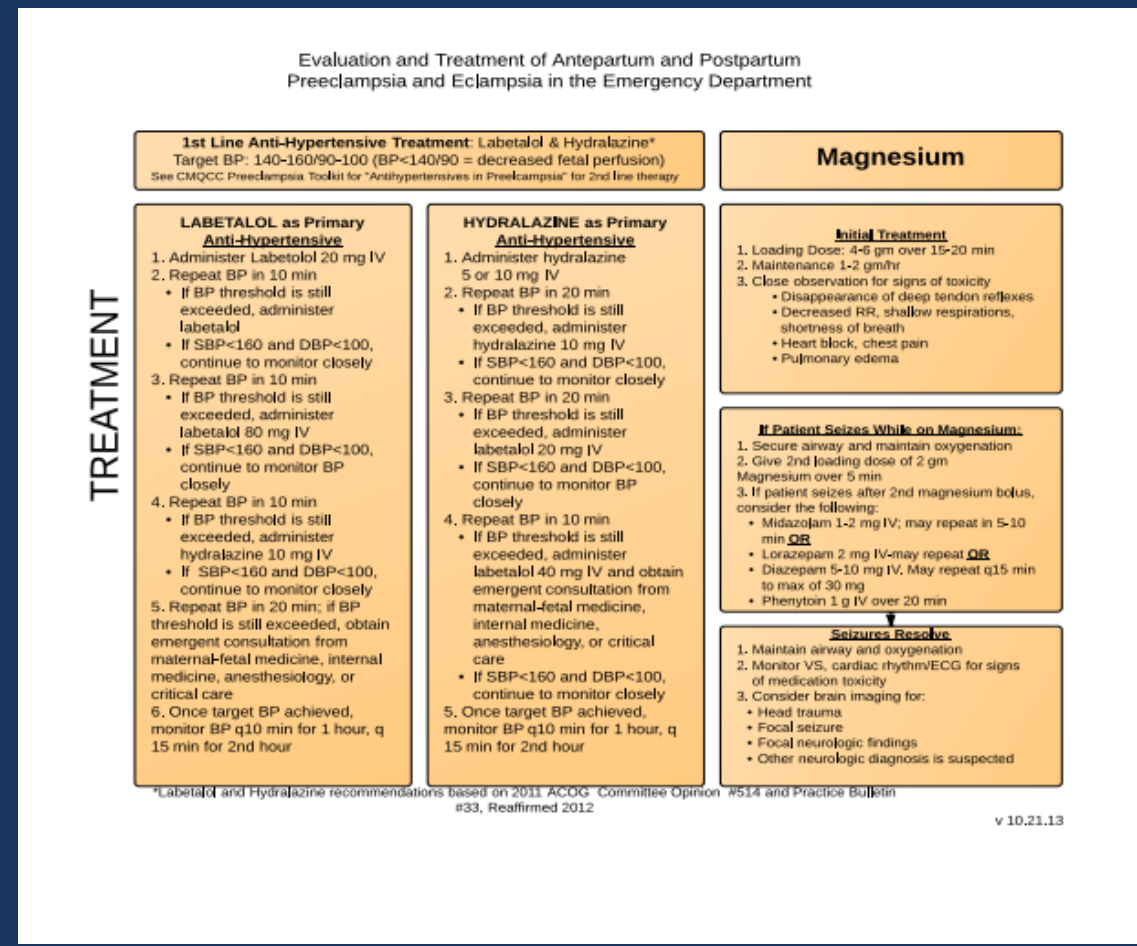
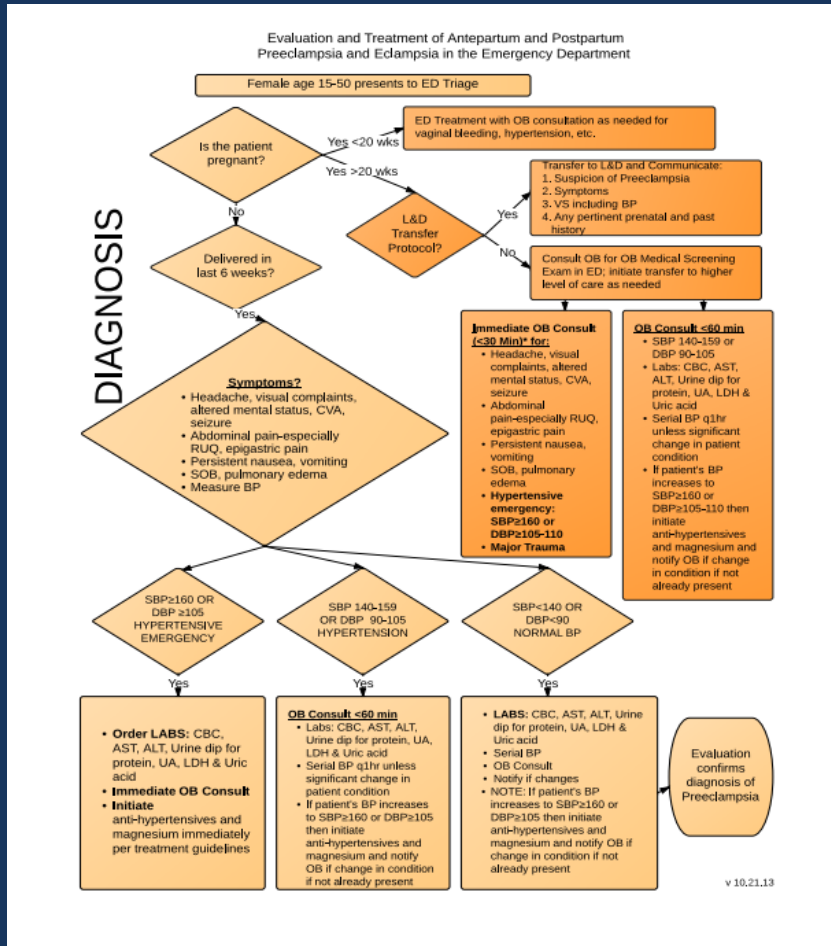
Triage/ Evaluation/Management/ Escalation

MEWS Protocol - [Safe HealthCare for Every Woman - Patient safety MEWS](#)

- Maternal Early Warning Signs
- Criteria where immediate action is required
 - Systolic Blood pressure >160, Diastolic Blood pressure >110
 - Hypertension with symptoms of non-remitting HA or dyspnea
- Physician should be notified/see patient/document condition and plan
- Anesthesia notified of condition
- “Huddle” with Charge RN, Primary RN, Anesthesia, OB Provider
- Plan for if conditions persist after corrective measures

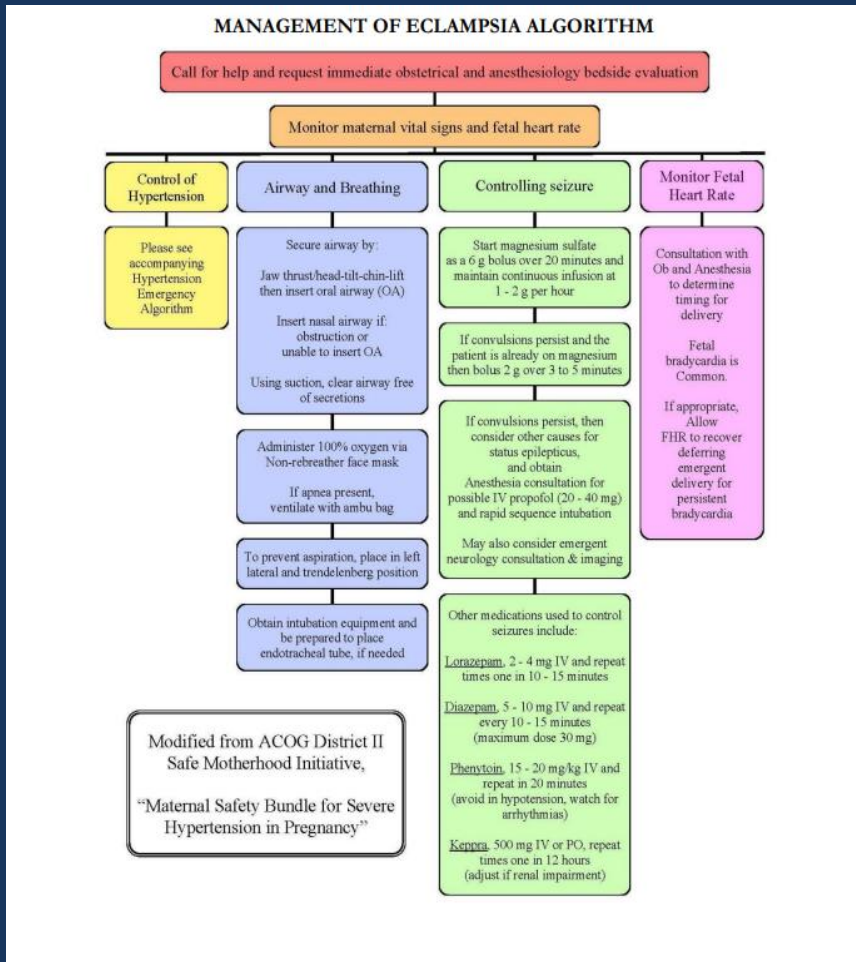
Readiness: Processes for optimal care

Triage/ Evaluation/Management/Escalation



Readiness: Processes for optimal care

Triage/ Evaluation/Management/Escalation

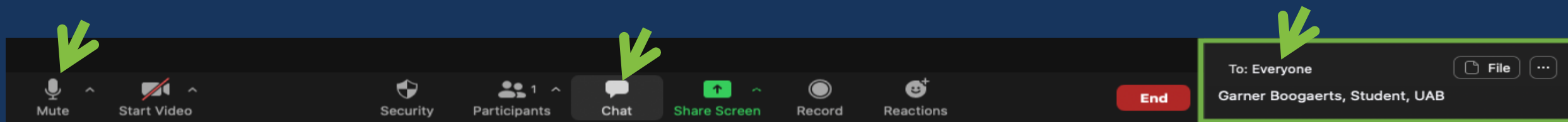


Readiness: Develop & Implement Standard Processes for Optimal Care

- ACOG Committee Opinion 767: Emergent Therapy for Acute-Onset, Severe Hypertension During Pregnancy and the Postpartum Period
- Maternal Early Warning Criteria Protocols and Resources – Council on Patient Safety on Women's Health Care
- Emergency Department Guidance – FPQC
- Emergency Department Recognition and Treatment – CMQCC
- CMQCC Preeclampsia Toolkit
- Safety Action Series: Blood Pressure Basics
- 7 Simple Tips to Get an Accurate BP Measurement – AHA, AMA
- Accurate BP Measurement – OPQIC

Q&A

- Please feel free to **unmute** and ask questions
- You may also enter comments or questions in the "chat" box





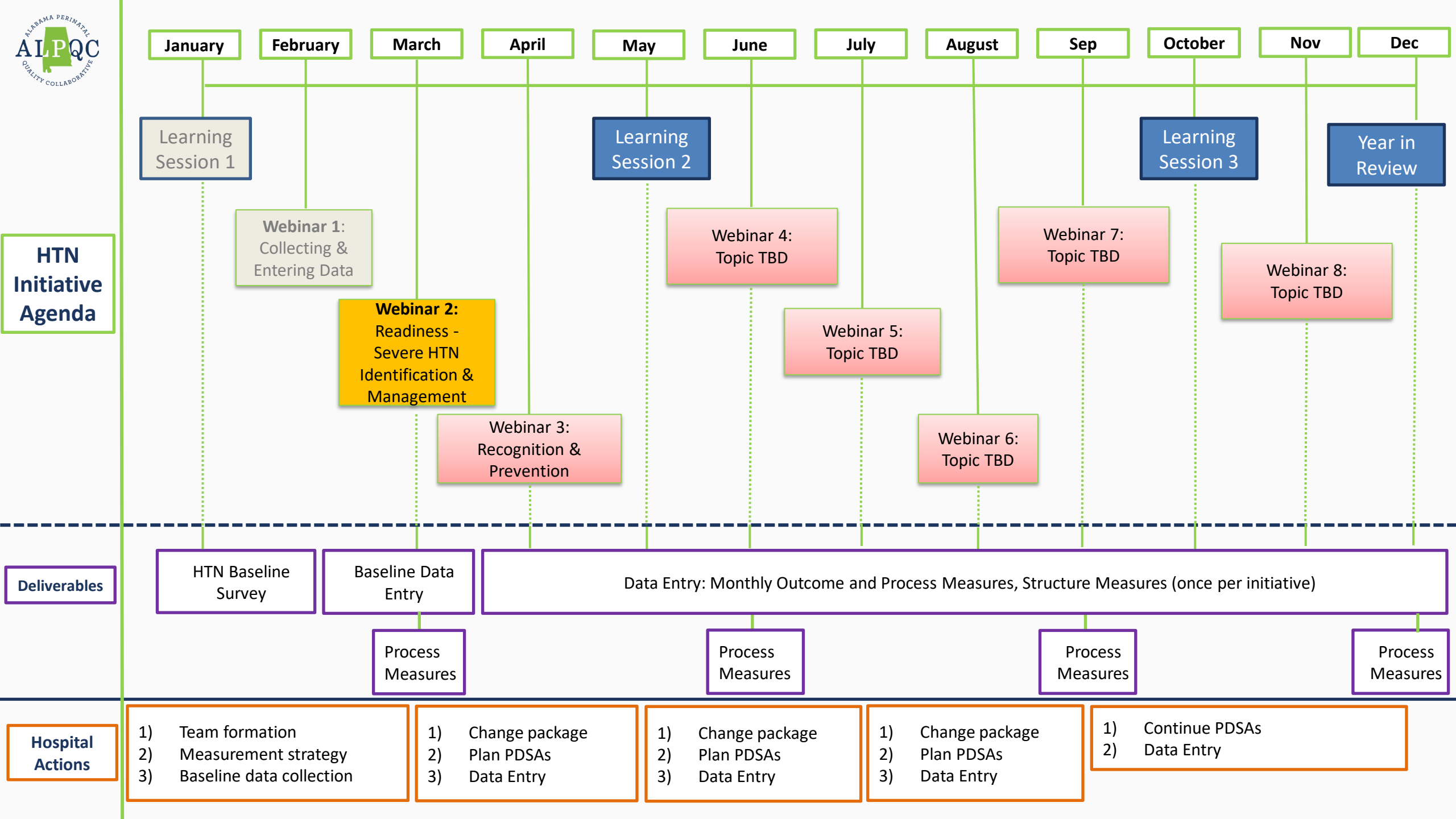
Next Steps

- ✓ March of Dimes Breaking Through Bias 1-hr online training
 - Please complete training before next Wednesday, March 31
- ✓ Complete Maternal HTN Baseline Survey
- ✓ Please complete your data use agreement
- ✓ Continue running PDSAs!
 - Samples and template on our website under “Key Documents”
- ✓ Baseline Data Due March 31





HTN Initiative Agenda





Thank You

Next Call: Friday, April 23 at 12:00 PM