

Data in Driving Change:

Collecting and Leveraging Data to Improve HDP

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GAP between science + practice EXAMPLES of great practice Strong business case

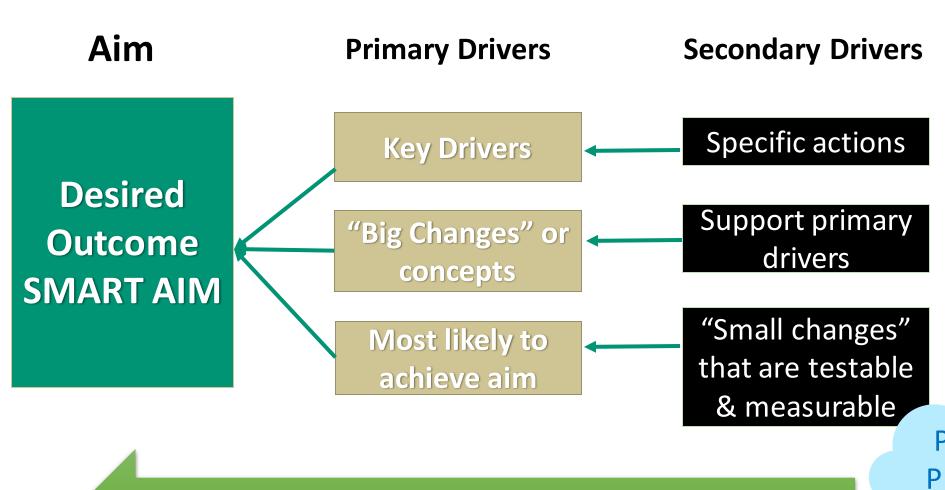
CHANGE PACKAGE

Ideas with a Pedigree **CHARTER**

Vision Goals Expectations MEASUREMENT STRATEGY

What?
Define
Collection

Key Driver Basic Concepts



Direction of causality

PROCESS
PRECEDES
OUTCOME

Aim

Primary Drivers

Secondary Drivers

By June 2026, PROMPT hospitals will increase by 20% the percentage of patients receiving:

- Timely treatment for persistent acute-onset severe hypertension within 1 hour from the first severe range BP reading
- Appropriate discharge education and scheduled follow-up encounters within 3-7 days post-discharge.

*Respectful care is a universal component of every driver and activity

Readiness:

implementation of standard protocols/processes

Develop standard protocols/processes for identification, management, and treatment of severe HTN

Ensure rapid access to severe HTN medication

Integrate a patient advisor in your QI team*

Recognition:

early identification and assessment

Assess and document if patient presenting is pregnant or has been within the past year in all care settings

Ensure accurate blood pressure measurement & assessment

Provide verbal and written HTN education to patients and support persons*

Provide Interdisciplinary clinician team training for early recognition and treatment of OB hypertensive emergencies (FD OF Fare 'agy, ICU)*

PROCESS

PRECEDES

OUTCOME

Response:

management for every pregnant or PP patient w/acute

Implement standardized protocol for

Provide trauma-informed support for

Schedule postpartum encou er 7 a.

Direction of causality

AIM

By 6/2026, PROMPT hospitals will increase by 20% the percentage of patients receiving:

Timely treatment for persistent acute-onset severe hypertension within 1 hour from the first severe range BP reading

Appropriate discharge education and scheduled follow-up encounters within 3-7 days post-discharge.

* Baseline will be established with the first quarter of hospital data



Persistent Severe Hypertension Definition

Severe HTN: Systolic BP \geq 160 mm Hg <u>or</u> diastolic BP \geq 110 mm Hg, or both.

Persistent Severe HTN:

• One or more repeat severe observations documented 15-60 minutes after episode onset – Severe BP values **do not need to be consecutive**!

OR

• BP is not documented to have decreased to nonsevere HTN within 15 minutes.



Primary Key Driver

Secondary Drivers

Readiness:

implementation of standard protocols/processes

Develop standard protocols/processes for identification, management, and treatment of severe HTN

Ensure rapid access to severe HTN medication

Integrate a patient advisor in your QI team*

Quarterly Status Update -> Not started to Fully Implemented

Primary Key Driver

Secondary Drivers

Assess and document if patient presenting is pregnant or has been within the past year in all care settings

Quarterly Status Update

Not started to Fully Implemented

Ensure accurate blood pressure measurement & assessment

Quarterly Status Update

Not started to Fully Implemented

Provide verbal and written HTN education to patients and support persons*

% pts. receiving verbal and written HTN education

Provide Interdisciplinary clinician team training for early recognition and treatment of OB hypertensive emergencies (ED, OB, Cardiology, ICU)*

% providers and staff who completed training

Recognition:

early identification and assessment

Primary Key Driver

Secondary Drivers

Response:

management for every pregnant or PP patient w/acute severe HTN

Implement standardized protocol for treatment of severe HTN

Quarterly Status Update → Not started to Fully Implemented

% pts. with timely treatment

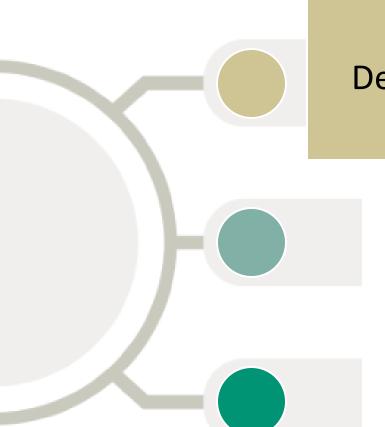
Provide trauma-informed support for patients*

% pts. of patients briefed on their SHTN event

Data Collection: Types & Tools

How do we know the change was an improvement?

PROMPT data types



Individual Patient-Level Data – Monthly

Demographics, time to treatment, education, tools provided and appointments scheduled





SEVERE HYPERTENSION DATA FORM

Goal: Increase the percentage of pregnant and postpartum patients treated for persistent severe hypertension (SHTN) (≥160 systolic OR ≥110 diastolic) within 60 minutes.

Instructions: Document the following information for any persistent SHTN (≥160 systolic OR ≥110 diastolic) occurring during pregnancy or up to 6 weeks postpartum, including patients in triage, ED, OBED, antepartum, L&D, postpartum. OB unit includes OBED, antepartum, L&D and postpartum Units.

| | | | | | | | | 100110 | | | |
|--|---|--|--|--|--|--|--|---|-----|----|--|
| | Discharge MonthYear Sd | Age | GA at event wks <u>OR</u> # days PP at event | | | GA at delivery wks □ N/A | | | | | |
| | ☐ Hispanic ☐ P Ethnicity ☐ Non-Hispanic ☐ U | t. declined to answer nknown | 1ry Language ☐ English | | Ce (check all that apply) caid/Med plans | | | Dx at Discharge (check all that apply) ☐ Chronic HTN | | | |
| | Race (check | ☐ Spanish ☐ Privat ☐ H.Creole ☐ Self-p | | | ☐ Scheduled C/S ☐ Emergency C/S ☐ N/A | | □ Gestational HTN □ Preeclampsia □ Superimposed Preeclampsia | | | | |
| | ali inai appivi | Ill that apply) □ Black □ Unknown □ White □ Pt. declined to answer | | □ Other □ Other | | | | | | | |
| | □ Other | □ Unknown □ Unkno | | | | | □ Eclampsia □ HELLP | | | | |
| l | | | | | | | | <u> </u> | | | |
| ī | MEDICAL MANAGEMENT | | | | | Adverse Maternal Outcome (check all that apply): | | | | | |
| | Measure | . location (mark one) | | ☐ OB hemorrhage with transfusion of ≥ 4 units of blood products | | | | | | | |
| | | e AP=antepartum PP=p | postpartum | | | | | | | | |
| | P reached ≥160 or diastolic >110 EMS | | ED OBED T AP L&D PP | | ☐ Pulmonary edema ☐ ICU admission ☐ Other | | | | | | |
| ı | Confirmatory BP ≥160 or diastolic ≥110 | EMS | ED OBED T AP L&D PP | | □ Oliguria □ DIC □ Ventilation | | | | | | |
| ı | First BP ≥160 or diastolic >110 in OB-u | | | OBED T AP L&D PP | | □ Renal failure □ Liver failure □ None | | | | | |
| ı | First BP med given EMS ED OBED | | | | | | | | | | |
| | BP reached <160 and diastolic BP <110 | | | | □ NICU/SCN admission □ IUFD □ Other □ None □ N/A | | | | | | |
| Ī | Medications (check all given) | ications (check all given) Followed protocol Check First | | i | Clinical Debrief/case Reviews | | | | | | |
| | (dosage and timing | |) Medication Given | | Did the physician and RN debrief this case for treatment improvement opportunities? | | | | | | |
| | □ Labetalol | Hydralazine Yes □ No □ Nifedipine Yes □ No □ Other antihypertensive Yes □ No □ | | | | No | | | | | |
| | ☐ Hydralazine | | | | | If an SMM case, was an interdisciplinary case review conducted? ☐ Yes ☐ No ☐ N// | | | | | |
| ļ | | | | | ,, | | | | | | |
| L | | | | | | DISCH | ARGE MANAG | SEMENT | | | |
| | ☐ Magnesium Sulfate Bolus Yes ☐ No ☐ ☐ Magnesium Sulfate Maintenance Yes ☐ No ☐ | | | | | | | | Yes | No | |
| L | ☐ Magnesium Sulfate Maintenance | | | W 110 W DD : : : 0 | | | | | | | |
| | Reason antihypertensive and/or Magnesium were not given | | | | W. A. LILLICA LA CONTRALA CONT | | | | | | |
| | ☐ Clinical Judgement | ned | | | | | | | | | |
| | ☐ BP not confirmed ☐ Patient left AMA ☐ BP normalized prior to starting meds ☐ Other ☐ | | | MA | | | | | | | |
| ☐ Immediate delivery planned ☐ Not documented/unknown | | | | District Control of the Control of t | | | | | | | |
| Did hypotengian (gyetelia <00 and/or digetelia <50) accur within one have of giving | | | | | W DD Did A William | | | | | | |
| | Did hypotension (systolic <90 and/or diastolic <50) occur within one hour of giving antihypertensive medication? ☐ YES ☐ NO | | | | | Was a PP Discharge Assessment (vital signs and response) conducted just prior to discharge? | | | | | |
| → Was there corresponding deterioration in FHR? ☐ YES ☐ NO ☐ N/A | | | | | How many days after ☐ BP and symptoms check within 3 days | | | | | | |
| → Were interventions for hypotension administered? □ YES □ NO WEST □ NO W | | | | | discharge were appointments □ 4-7 days □ 8-14 days □ 15-21 days | | | | | | |
| → Was a cesarean performed due to hypotension? ☐ YES ☐ NO ☐ N/A | | | | | | scheduled? (check all that apply) □ >21 days □ Pt. instructed/not scheduled | | | | | |

DEMOGRAPHICS

STUDY ID:

ADVERSE OUTCOMES

DISCHARGE PROCESS



ADVERSE EFFECTS

TIME TO TREAT

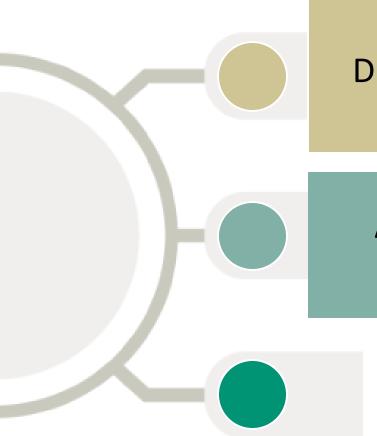
INDIVIDUAL PATIENT-LEVEL DATA Monthly

Report on up to 15 cases of pregnant and postpartum patients with persistent, severe hypertension that present to ED or obstetric unit

- First 10 with persistent SHTN
- First 5 with SMM among preeclampsia/eclampsia/HELLP



PROMPT data types



Individual Patient-Level Data – Monthly

Demographics, time to treatment, education, tools provided and appointments scheduled

Aggregate Patient-Level Data – Quarterly

Aggregate Severe Maternal Morbidity



AGGREGATE PATIENT-LEVEL DATA Quarterly

| Measure | # of patients | | |
|---|---------------|--|--|
| # of delivery admissions | | | |
| # pts. with preeclampsia, eclampsia or HELLP syndrome | | | |
| # of pts with SMM (exclude BT alone) during the delivery admission | | | |
| # of pts. with preeclampsia, eclampsia, or HELLP syndrome who experience SMM (exclude BT alone) | | | |



MICH-05: Reduce severe maternal complications identified during delivery hospitalizations



Mandatory reporting for Hospital IQR and Medicare Promoting Interoperability Programs

PROMPT data types



Patient Level Data – Monthly

Demographics, time to treatment, education, tools provided and appointments scheduled

Patient Level Data – Quarterly

Aggregate Severe Maternal Morbidity

Hospital-Level Data – Quarterly

Policies/Guidelines/Procedures; staff education





Pregnancy-Related Optimal Management of Hypertension (PROMPT) Hospital-Level Data Collection Form

| 1 - Not Started 2 - Planning/Developing 3 - Started Implementing - Started implementing in the last 3 months 4 - Implemented - Less than 80% compliance after at least 3 months of implementation (not routine practice) 5 - Fully Implemented - At least 80% compliance after at least 3 months of implementation (routine practice) | | | | | | | | | |
|---|----------------|------------------------------|----------------------|-----------------------|---------------------------|--|--|--|--|
| To what extent has your hospital: | Not started | Planning/ Developing 2 | Started to implement | Implemented | Fully implemented 5 | | | | |
| Established Emergency Department (ED) Screening for current or recent pregnancy | | | | | | | | | |
| Implemented a process to ensure accurate blood pressure measurement and assessment with confirmation after severe range | | | | | | | | | |
| Implemented a Severe Hypertension (SHTN)/preeclampsia policy, guideline, and/ or process (reviewed or updated within the last two years) that contains: treatment of SHTN/preeclampsia and the use of seizure prophylaxis, including for treatment of magnesium overdose | | | | | | | | | |
| Ensured ready reference to algorithms for identifying, assessing, and treating SHTN/preeclampsia on all units | | | | | | | | | |
| Implemented a system plan for level of care escalation, consultation, and maternal transport when needed | | | | | | | | | |
| Developed a workflow to ensure rapid access to SHTN medication | | | | | | | | | |
| Established a standardized process to conduct debriefs with patients after a severe event | | | | | | | | | |
| Established a process to perform interdisciplinary systems-level reviews of cases of severe maternal morbidity | | | | | | | | | |
| Held interprofessional and interdepartmental team-based drills with timely debriefs that include the use of simulated patients | | | | | | | | | |
| Implemented periodic education and engagement for ED physicians and staff about SHTN/preeclampsia | | | | | | | | | |
| Engaged a Patient Advisor in the QI team | | | | | | | | | |
| Staff Education and Training | | | | | | | | | |
| Please add the percentage of staff, physicians, and midwives that are educated on the following topics: | | | | | | | | | |
| What percentage of your staff has received education on | Nu | irses | Phys | Physicians & Midwives | | | | | |
| Accurate blood pressure measurement and assessment? | | 9 | 6 | | % | | | | |
| Severe hypertension/preeclampsia policy, guidelines or procedures? | | 9 | 6 | | % | | | | |
| Respectful Care and commitment to Respectful Care practices? | | 9 | 6 | | % | | | | |

Questions? Please contact FPQC@usf.edu

10/02/2024

HOSPITAL-LEVEL DATA

- □ Not started
- □ Planning



- □ Started to implement
- □ Implemented
- □ Fully Implemented

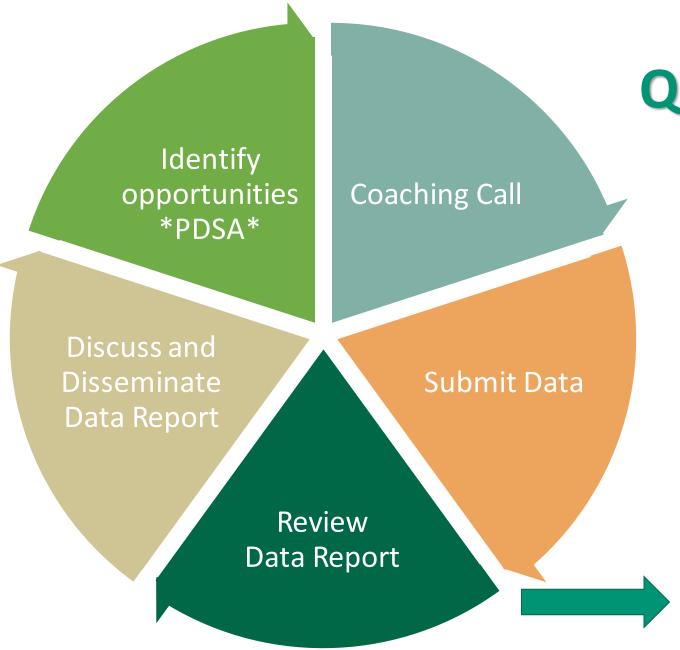


Cumulative Percent



The **data** you collect isn't just numbers — it reflects the lives, stories and outcomes of your **patients**.





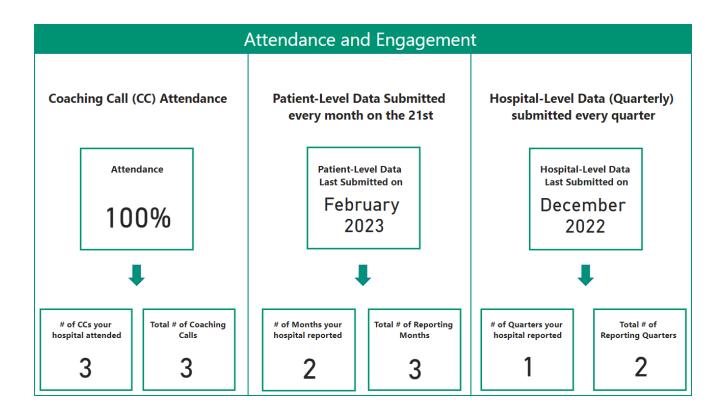
QI MONTHLY CYCLE

QI REPORTS

- Aim
- Run Charts
- Track Process, Structural, and Outcome Measures
- Add your PDSAs



Individual Hospital Levels of Participation are Required by FDOH



HB Hospitals will receive a star for each of the metrics





IMPORTANT REQUESTS

- ☐ Track completion of your hospital's Data Use Agreement (DUA)
- Let us know of any changes in your team: data lead resources
- Attend the data webinars
- Submit your hospital-level data by December
- ☐ Patient-level data collection starts in January



PROMPT DATA WEBINARS

Dates 1. Thursday, November 7 @ 12 pm 2. Thursday, November 14 @ 12 pm

- Importance of data for the PROMPT Initiative
- Data definitions, inclusion criteria
- Data tools data collection sheets
- Processes to submit data
- Review of a sample report
- Using your report to guide improvement



Questions?

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"To improve the health and health care of all Florida mothers & babies"