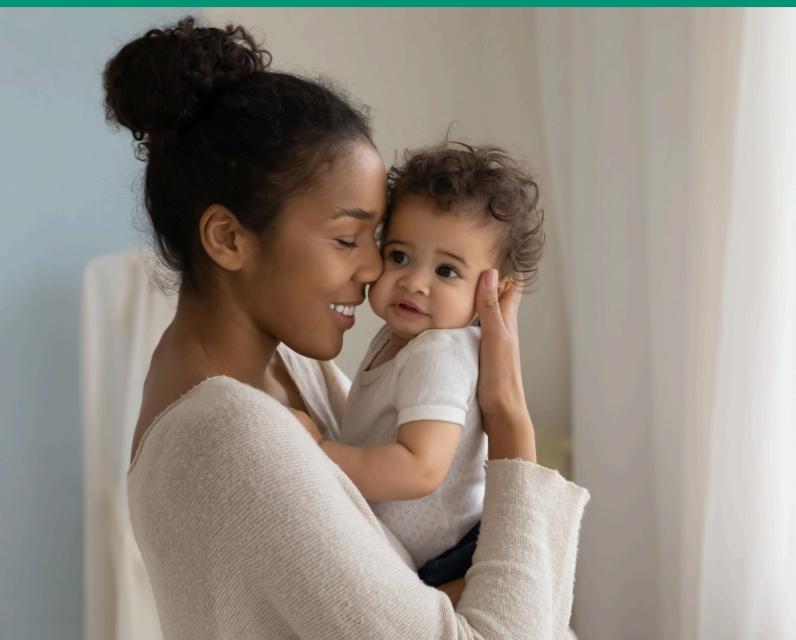


PREGNANCY-RELATED OPTIMAL MANAGEMENT OF HYPERTENSION (PROMPT): A QUALITY IMPROVEMENT INITIATIVE









Florida Perinatal Quality Collaborative



The Florida Pregnancy-Related Optimal Management of HyPerTension (PROMPT) Initiative toolkit is intended to provide guidance to hospitals and obstetric providers in the development of individualized policies, protocols, practices, and materials to assure early identification and PROMPT treatment of severe hypertensive episodes. This toolkit is not to be construed as a standard of care; rather it is a collection of resources that may be adapted by local institutions to develop and implement their quality improvement initiative. The toolkit is based on the framework from the <u>Alliance for Innovation on Maternal Health (AIM)</u> <u>Severe Hypertension in Pregnancy Patient Safety Bundle</u> and will be updated as additional resources become available.

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Introduction

The PROMPT Toolkit is a dynamic document that includes up-to-date clinical, public health practice, scientific and patient safety recommendations. Information presented here should not be used as a standard of care. Rather, this is a collection of resources that can be adapted by local institutions to develop and implement their quality improvement initiative.

The overall goals of the PROMPT Initiative Toolkit are:

- 1. To aid the development of standardized approaches to severe hypertensive episodes that promote recommended screening, prevention, treatment, and education services for all pregnant and postpartum women with a special emphasis on high-risk women.
- 2. To guide and support hospitals in implementing a multidisciplinary team approach to improving the identification, clinical care, education and coordinated treatment plan and support on severe



hypertensive episodes for all pregnant and postpartum women with a special emphasis on high-risk women.

This toolkit will provide maternal and obstetric healthcare providers, staff at healthcare facilities and collaborating providers and services with the resources to locally develop their own PROMPT policies and protocols with a focus on safe practices and optimizing severe hypertensive episode care and outcomes.

Every US maternity hospital should develop and implement a process to provide respectful, timely, and risk-appropriate care and services for pregnancy and postpartum patients affected by a severe hypertensive event and arrange for the needed continuum of care. This may include early postpartum visit scheduling, providing a blood-pressure cuff and including education on how to use it and when to report changes to their provider, connection with community resources, and/or referrals to specialists.

Hospitals should also have interdisciplinary teams in place with necessary skill sets and identified roles in screening, care, education, and follow-up for patients with a severe hypertensive event. Administration, nursing, obstetric providers, anesthesiologists, pharmacists, social work/case managers, community providers, and others are all critical partners in the interdisciplinary team approach necessary for QI and the provision of quality care. These teams need to train together and practice together in order to maintain and gain new competencies. Because each hospital and care team has differing resource sets, it is important to develop individualized protocols and processes for each facility. A QI team composed of a core set of team members from the disciplines involved must review current policies and data, determine the priorities for improvement, and develop a work plan to address their needs. Patient and family involvement in this type of QI initiative is important and valuable. Incorporating Emergency Department team members is also key.

Background

The Florida Perinatal Quality Collaborative (FPQC) is launching its second initiative focused on Hypertensive Disorders of Pregnancy (HDP) with the October 23, 2024, kickoff of the Pregnancy-Related Optimal Management of Hypertension initiative—PROMPT. Our first Hypertension in Pregnancy (HIP) initiative in 2015 resulted in significant improvements in time to treatment for women with Severe Hypertension (SHTN). However, despite the improvements achieved during the initiative, rates for hypertension in pregnancy in Florida have been climbing since 2017.

In 2022, 19.4% of Florida delivery admissions had HDP, up from 13.1% in 2017. Data shows that HDP disproportionately affects non-Hispanic Black patients and is a leading cause of severe maternal morbidity. Hypertension is also a critical risk factor for short- and long-term severe maternal, fetal, and infant complications, and HDP are currently the leading cause of pregnancy-related deaths in Florida.

Initiative Foci

Standardization of care practices related to:

- Implementing a standard protocol, guideline, and/or process for identifying, managing, and treating patients with SHTN
- Conducting interprofessional and interdepartmental team-based drills and case reviews on patients with SHTN



- Providing comprehensive and coordinated post-event care to patients with HDP, including:
 - Scheduling blood pressure checks 3-7 days after discharge and making appropriate referrals
 - Educating patients about warning signs, when to seek care, how to measure and track blood pressure, and understanding preeclampsia
 - Conducting patient debriefs and trauma-informed support after severe events
- Providing training for clinicians on:
 - Severe Hypertension/Preeclampsia guidelines, processes, and/or procedures
 - Accurate blood pressure measurement and assessment
 - Respectful Maternity Care
- Implementing universal Emergency Department screening for current or recent pregnancy
- Integrating a patient advisor in your QI team

Initiative Goal

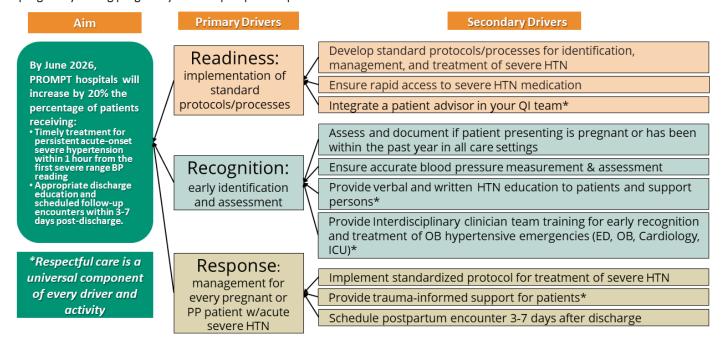
By June 2026, PROMPT hospitals will increase by 20% the percentage of patients receiving:

- 1. Timely treatment for persistent acute-onset severe hypertension within 1 hour from the first severe range BP reading
- 2. Appropriate discharge education and scheduled follow-up encounters within 3-7 days post-discharge. The initiative will embed respectful care within all components and activities. Baseline data will be established after the first quarter of hospital data is received by FPQC. Participating hospitals will use the PROMPT Initiative toolkit to implement the needed change package in their hospital.

Key Driver Diagram

PROMPT: Pregnancy-Related Optimal Management of Hypertension

Global aim: Improve maternal health through hospital-facilitated timely recognition and treatment of hypertensive disorders of pregnancy during pregnancy and the postpartum period.





The PROMPT Initiative Toolkit

Using elements from the <u>AIM Severe Hypertension in Pregnancy Patient Safety Bundle</u>, FPQC has adapted content around the following components:

- **Primary Drivers:** Major processes, operating rules, or structures that will contribute to moving toward the aim. In this toolkit, the primary drivers are based on three of AIM's Five Rs Framework (Readiness, Recognition, Response). Respectful Care is a universal component of every driver and activity. Reporting & Systems Learning is captured through our data collection system.
- **Secondary Drivers:** Broad concepts (e.g., "move steps in the process closer together") that are not yet specific enough to be actionable but that will be used to generate specific ideas for change.
- **Potentially Better Practices:** Actionable, specific ideas for changing a process. Potentially better practices can come from research, best practices, or from other organizations that have recognized a problem and have demonstrated improvement on a specific issue related to that problem.

Disclaimer

This toolkit is considered a resource. Readers are advised to adapt the guidelines and resources based on their local facility's level of care and patient populations served and are also advised to not rely solely on the guidelines presented here. This toolkit is a working draft and living document. As more recent evidence-based strategies become available, hospitals and providers should update their guidelines and protocols accordingly. The FPQC will also send out updates as well as revise these materials. Please note the version number in the footer.



PROMPT Initiative Toolkit

Readiness: Implementation of standard protocols/processes			
Secondary Driver	Potentially Better Practices	Evidence/Rationale	Tools/Resources
Develop standard	Develop a standardized protocol for	ACOG Practice Bulletin #222	CMQCC Acute Treatment
protocols/processes for	maternal early warning signs, diagnostic	Gestational Hypertension and	<u>Algorithm</u>
identification,	criteria, monitoring and treatment of	Preeclampsia: ACOG recommends	 CMQCC Preeclampsia
management, and	severe preeclampsia/ eclampsia	treatment for persistent, severe	Screening Tool
treatment of severe HTN	(including order sets and algorithms), to	hypertension within 30-60 minutes.	 Implementing Obstetric
	include BP assessment, laboratory		Early Warning Systems
	assessment, and fetal assessment.	ACOG CO #667 Hospital-Based	 ACOG Hypertensive
	 Develop a process for the timely triage 	Triage of Obstetric Patients: ACOG	Emergency Checklist
	and evaluation of pregnant and	recommends collaborating with	 ACOG Eclampsia Checklist
	postpartum patients with severe	other departments to create	ACOG ED Postpartum
	hypertension or related symptoms.	guidelines for triage of pregnant	Preeclampsia Checklist
	 Develop a system plan for escalation, 	women in all hospital settings and	•
	obtaining appropriate consultation, and	standardized triage protocols.	
	maternal transfer as needed.		
	Ensure ready reference to the	ACOG Practice Bulletin #203	
	algorithms for identifying, assessing,	Chronic Hypertension in	
	and treating severe.	Pregnancy: When antihypertensive	
	hypertension/preeclampsia on all units	therapy is used during pregnancy,	
	Connect with local ED/EMS to ensure	an important consideration is the	
	protocols are aligned.	context of therapy, which is either	
		1) chronic treatment to lower blood	
		pressure to maintenance levels,	
		sometimes slowly during 24–48	
		hours often in the outpatient	
		setting, or 2) acute lowering of	
		critical hypertension in the hospital	
		setting.	

Ensure rapid access to severe HTN medication	 Establish locations of key medications in all units to ensure easy, rapid access (consider creating workflows). Ensure easy access to instructions for dosage and administration and develop processes to ensure medication. availability is checked regularly Develop or modify standard order sets for hypertension/preeclampsia medications. 	ACOG Practice Bulletin #222 Gestational Hypertension and Preeclampsia: ACOG recommends urgent blood pressure control with antihypertensive medications such as labetalol, hydralazine and immediate release nifedipine. Kantorowska et al. 2020: Timely treatment of severe hypertension in pregnancy is crucial to prevent end organ damage and may be facilitated though expedited medication access. Martin et al. 2021: Use of a standardized order set for the management of severe hypertension in pregnancy improves the timely administration of antihypertensive medications.	 FPQC Sample Acute-Onset, Severe Hypertension and Eclampsia Medication Kit ACOG Labetalol Algorithm ACOG Hydralazine Algorithm ACOG Oral Nifedipine Algorithm
Integrate a patient advisor on your QI team	 Work with local Healthy Start Coalition and other community organizations to connect patients and families to serve as hospital advisors. Create a patient engagement plan to include ongoing recruitment activities, communications, orientation, and advisor expectations. 	Family Engagement at the Systems Level: A Framework for Action Family-centered care that involves patients at the individual and system-wide levels as allies in their care has been associated with improved quality and safety, cost savings, improved health outcomes, increased patient and provider satisfaction, and more effective policies.	Alberta Health Guide to Patient Engagement FPQC Involving Patients in QI One Pager
Recognition: Early identifica	tion and assessment	·	
Secondary Driver	Potentially Better Practices	Evidence/Rationale	Tools/Resources
Assess and document if patient presenting is	Ask all patients of reproductive age if pregnant in the past year in all clinical	ACOG Identifying and Managing Obstetric Emergencies in	FL MMRC One-Pager

pregnant or has been within the past year in all care settings	settings including by EMS/Emergency Departments. Incorporate pregnancy status within the last year question into the EMR. Post signage in EDs for patients and families to notify providers if pregnant in past year.	Nonobstetric Settings: ACOG recommends screening for pregnancy in the last year in all non-obstetric settings. Florida Maternal Mortality Review Committee findings have noted an increase in maternal morbidity and mortality through 12 months postpartum secondary to HTN	 Statement from ACOG – coming soon FPQC ED Clinician Signage FPQC Post-Birth Wallet Card
		and its complications, which predominantly occur postpartum. AWHONN & ENA Joint Statement on the Care of OB Patients in the ED: Health care professionals should be prepared to stabilize and treat pregnant or postpartum patients who presents to the emergency setting.	
Ensure accurate blood pressure measurement and assessment	 Ensure BP is measured by all clinicians accurately and consistently every time. Provide clinical education on proper blood pressure measurement including the "gold standard" of manual measurement. Automated BP is acceptable if clinical observation and assessment confirms appropriate technique using a validated device. 	Hurrell A, Webster L, Chappell LC, Shennan AH: Article reviews accurate BP assessment in perinatal patients as essential to guide management of hypertension. Hypertension in Pregnancy: Diagnosis, Blood Pressure Goals, and Pharmacotherapy: A Scientific Statement from the American Heart Association: The American Heart Association states: "Accurate BP measurement is crucial for classifying hypertension and	 FPQC BP Assessment PPT – coming soon FPQC BP Clinician Competency – coming soon Clinician BP Key Elements AWHONN Infographic

		initiating treatment, regardless of pregnancy status."	
Provide verbal and written HTN education to patients and support persons	 Provide education on HTN red flags and reasons to seek emergency care in pregnancy and postpartum while including support persons in all educational components. All education should be culturally relevant, available in multiple languages and accessible to patients with low health literacy. Provide instructions and education using multiple modalities (handouts, videos, bedside verbal instruction) on how to appropriately self-measure BP and include teach-back method. Ensure patients have access to a validated BP cuff at discharge and have been given education to use it properly with instructions on when to contact their provider. Consider other resources for BP cuffs: Medicaid plan, remote telehealth monitoring, Community Based Organizations (CBOs), etc. Ensure patients have contact information for their providers, know when to seek care, and the dates/times of any follow-up appointments. 	Postpartum Care: ACOG recommends patients and support persons receive education on warning signs for hypertensive disorders. ACOG CO #676 - Health Literacy to Promote Quality of Care: Learning preferences and levels of health literacy vary among patients. Materials accessible to all patients are essential to communicate with a diverse population (health literacy, multiple languages, appropriate reading level, infographic style).	 AWHONN PBWS Digital Download AIM Maternal Early Warning Signs FPQC Wrist Cuff Patient Education – coming soon FPQC Arm Cuff Patient Education – coming soon Preeclampsia Foundation Video to do Self-Measured BP CDC HEAR HER Campaign FPQC Post-Birth Wallet Card IHI Teach Back Method
Provide interdisciplinary clinician team training for early recognition and treatment of OB hypertensive emergencies (ED, OB, Cardiology, ICU, or other units as appropriate)	 Facilitate ongoing interdisciplinary patient-centered preeclampsia scenario drills with debriefs that emphasize assessment, emergency interventions including antihypertensive algorithms and eclampsia protocol. 	The Joint Commission Standards PC 06.03.01: for Maternal Safety: The Joint Commission recommends, at minimum, annual interdisciplinary team training essential to improve outcomes. Including all members	 Free Contact Hour AIM Severe HTN bundle FPQC Sample Simulation – coming soon CMQCC Simulation Examples

Response: Management for	 Incorporate respectful maternity care components into simulations and drills. Require at least annual drill participation as an element of evaluation and/or credentialing. Train all providers to not assume that a patient's hypertension is attributed to factors such as race, obesity, socioeconomic status, mental health, diet, pain, or anxiety. 	of the obstetrical team with OB hypertension emergencies simulation and debriefs to decrease obstetric-related morbidity and mortality by improving the team's communication and response in a true emergency. TJC 06.03.01 EP 3 & 4: 3: Provide education on roles, team training. 4: Conduct drills at least annually to determine system issues as part of ongoing quality improvement efforts. Severe hypertension/preeclampsia drills include a team debrief.	TJC EP4: Preeclampsia Drills & Debrief Requirements
Secondary Driver	Potentially Better Practices	Evidence/Rationale	Tools/Resources
Implement standardized protocol for treatment of severe HTN	 Convene an interdisciplinary hospital team to customize and implement standardized protocols for the recognition, response and treatment of severe hypertension. Coordinate with pharmacy teams to ensure rapid medication availability in all units. Develop nurse driven protocols/standing orders to allow for rapid identification and treatment of severe hypertension. Identify champions and early adopters in multiple departments to pilot protocols and processes prior to full scale adoption. 	TJC PC.06.03.01: Reduce the likelihood of harm related to preeclampsia. Per EP2: Written procedures should be developed by multidisciplinary team that includes representation from Obstetrics, ED, Anesthesiology, Nursing, Lab and Pharmacy. ACOG Practice Bulletin #222 Gestational Hypertension and Preeclampsia: ACOG recommends treatment for persistent, severe hypertension within 30-60 minutes.	 CMQCC Team Debrief Form CMQCC Hypertension Algorithm with Implementation Tips CMQCC stop sign for ED CMQCC Guidance for Rapid Debrief and Sample Form AIM MEWS example protocol

Provide trauma-informed support for patients	 Use the EHR to implement and execute existing electronic order sets to align with standardized protocols. Educate providers and staff on potential traumatic impact of hypertensive disorder diagnosis on patient's mental health and feelings regarding current and future pregnancies. Develop protocols to support patients and families through traumatic experiences surrounding childbirth, particularly related to hypertensive disorders. Develop protocols to provide peer-topeer support for providers involved in traumatic cases to care for the second victims. 	SMFM Hypertension in Pregnancy Change Package: SMFM recommends quality improvement and implementation of evidence-based tools to improve maternal morbidity and mortality ACOG CO #825- Caring for patients who have experienced trauma: ACOG recommends that the entire clinical team implements a trauma-informed approach in a physical and psychologically safe context when interacting with patients. This includes recognition of prevalence of trauma and effect on patients and providers, building a trauma-informed workforce, and universal screening for a history of and current trauma with attention to	 FPQC What to Expect in the Hospital Birth Trauma Resources FPQC Am I Providing Trauma-Informed Care? Second Victim Syndrome Code Lavender guidelines CMQCC Guidance for Rapid Debrief and Sample Form
Schedule postpartum encounter 3-7 days after discharge	 Prior to discharge, schedule a postpartum blood pressure check for patients with hypertensive disorders of pregnancy (including patients with risk factors) within 3-7 days. Consider alternative methods of contact for patients with limited resources including telemedicine, text, EHR uploads of logs and home BP monitoring if needed. 	ACOG CO #736 - Optimizing Postpartum Care: ACOG recommends that patients with hypertensive disorders of pregnancy have a BP check in 3-7 days postpartum and receive education on warning signs for hypertensive disorders.	 PROMPT Postpartum Discharge Flow Adopted from PACC Toolbox: Maternal Discharge Assessment Postpartum Discharge Assessment Post-Birth Heath Check Billing/Coding Post-Birth Health Check

Reinforce warning signs of hypertensive	Pregnancy-Associated Stroke and	FPQC Post-Birth Wallet
disorders and when patients should	Outcomes Related to Timing and	<u>Card</u>
contact their provider (see Recognition	Hypertensive Disorders:	
Resources)	Patients who suffer from	
	hypertension are at an increased	
	risk for stroke. It is important that	
	patients are educated on these	
	risks and symptoms, and they	
	may require additional monitoring	
	throughout the postpartum period	
	and beyond.	