

Cardiac Webinar Series The Journey Never Ends: Highlights for Successful Bundle Implementation & Sustainability

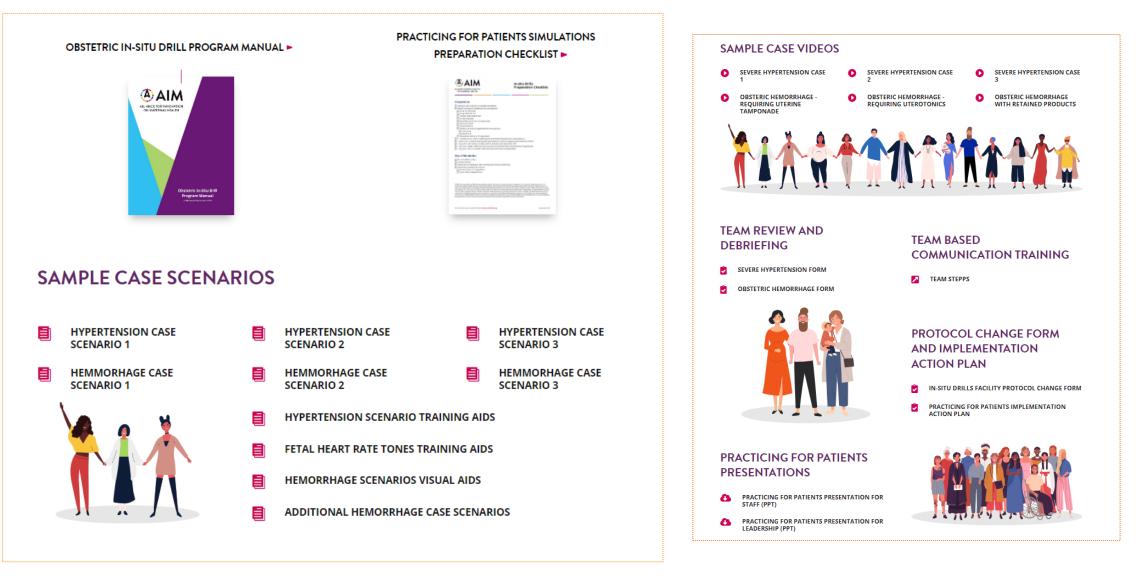
Severe HTN in Pregnancy & Cardiac Conditions in OB Care September 5, 2023





- Next Maternal Webinar Tuesday, October 3rd at 2pm
- Q3 2023 HTN and Cardiac Data Submission DUE October 31st
- GaPQC Quarterly Newsletter Team Bright Spots
- Office of Minority Health (US Department of Health and Human Services) <u>Culturally and Linguistically Appropriate Services (CLAS) in Maternal Health Care</u>
- Webinar presentation by the American College of Cardiology <u>From Pregnancy to Plaque: Adverse Pregnancy Outcomes and Impact on Coronary Atherosclerotic Disease</u> -<u>American College of Cardiology (acc.org)</u>

SIMULATION AND DRILLS FOR PATIENT SAFETY



https://saferbirth.org/aim-resources/aim-cornerstones/simulations/

			l	INTERVENTIONS			
Key Driver Diagram: Maternal Cardiac Conditions				ain all obstetric care providers to perform a basic Cardiac Conditions Screen. tablish a protocol for rapid identification of potential pregnancy-related cardiac conditions in all practice settings to hich pregnant and postpartum people may present. evelop a patient education plan based on the pregnant and postpartum person's risk of cardiac conditions.			
GOAL:	DAL: Key Drivers			Establish a multidisciplinary "Pregnancy Heart Team" or consultants appropriate to their facility's designated Maternal Level of Care to design coordinated clinical pathways for people experiencing cardiac conditions in			
To reduce severe morbidity & mortality related to maternal cardiac conditions in Georgia. SMART AIM: By 02/6/2026, National Wear Red Day, to reduce harm related to existing and pregnancy related cardiac	/	Readiness: EVERY UNIT - Implementation of standard processes for optimal care of cardiac conditions in pregnancy and post-partum.		pregnancy and the postpartum period. S1 Establish coordination of appropriate consultation, co-management and/or transfer to appropriate level of matern newborn care. Develop trauma-informed protocols and training to address health care team member biases to enhance quality o Develop and maintain a set of referral resources and communication pathways between obstetric providers, community-based organizations, and state and public health agencies to enhance quality of care. *			
		Recognition & Prevention: EVERY PATIENT - Screening and early diagnosis of cardiac conditions in pregnancy and post-partum. Response: EVERY UNIT - Care management for every pregnant or postpartum woman with cardiac conditions in pregnancy and post-partum.	И	primary care.			
	 			Utilize standardized cardiac risk assessment tools to identify and stratify risk.			
	* *			 Facility-wide standard protocols with checklists and escalation policies for management of people with known or suspected cardiac conditions. Coordinate transitions of care including the discharge from the birthing facility to home and transition from postpartum care to ongoing primary and specialty care. 			
conditions through the 4 th		Reporting/System Learning : EVERY UNIT - Foster a culture of safety and improvement for care of women with cardiac conditions in pregnancy and post-partum.		Provide patient education focused on general life-threatening postpartum complications and early warning signs, including instructions of who to notify if they have concerns, and time and date of a scheduled postpartum visit. S3			
trimester by 20%.				 admission huddles and post-event debriefs. Perform multidisciplinary reviews of serious complications (e.g., ICU admissions for other than observation) to identify systems issues. S4 			
		Respectful, Equitable, and Supportive Care — EVERY UNIT/PROVIDER/TEAM MEMBER - Inclusion of the patient as part of the multidisciplinary care team.		support network to understand diagnoses, options, and treatment plans.			

GaPQC Data Updates

Women's Health Epidemiology

September 5, 2023



Overview

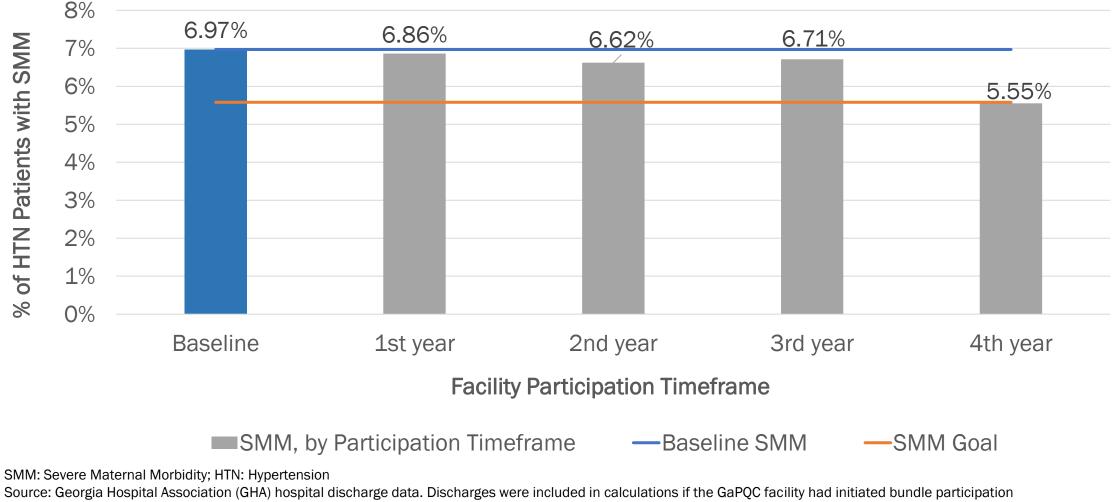
- Brief Hemorrhage severe maternal morbidity (SMM) update
- Hypertension SMM by year, participation, and quarter
- Cardiac state surveillance and outcome measure baselines
- Hypertension process and structure measures
- Hypertension reporting progress for Q1 and Q2 2023

GaPQC Severe Maternal Morbidity by Calendar Year

	Baseline (%)	Goal (%)	2019	% Improvement from Baseline	2020	% Improvement from Baseline	2021	% Improvement from Baseline	2022	% Improvement from Baseline
Hemorrhage										
SMM w/out transfusion	8.01	6.41	6.41	19.98%	7.47	6.74%	7.31	8.74%	7.18	10.36%
Hypertension										
SMM w/out transfusion	6.97	5.58	6.61	5.16%	5.81	16.64%	6.70	3.87%	6.59	5.45%

Source: Georgia Hospital Association (GHA) hospital discharge data. Discharges were included in calculations if the GaPQC facility had begun bundle participation at the time of the hospital discharge baseline period for each GaPQC facility included the 8 quarters prior to that facility's bundle initiation. Data through 2021 have been finalized. Data for 2022 are provisional and are expected to be finalized ~Sept. 2023.

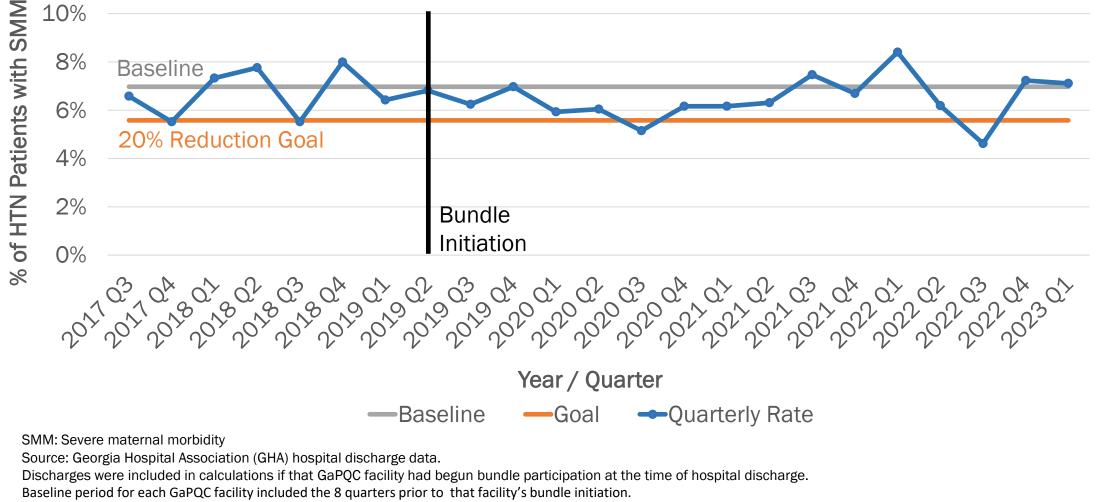
GaPQC Severe Maternal Morbidity (Excluding Blood Transfusions) by Facility's Hypertension Bundle Participation Timeframe



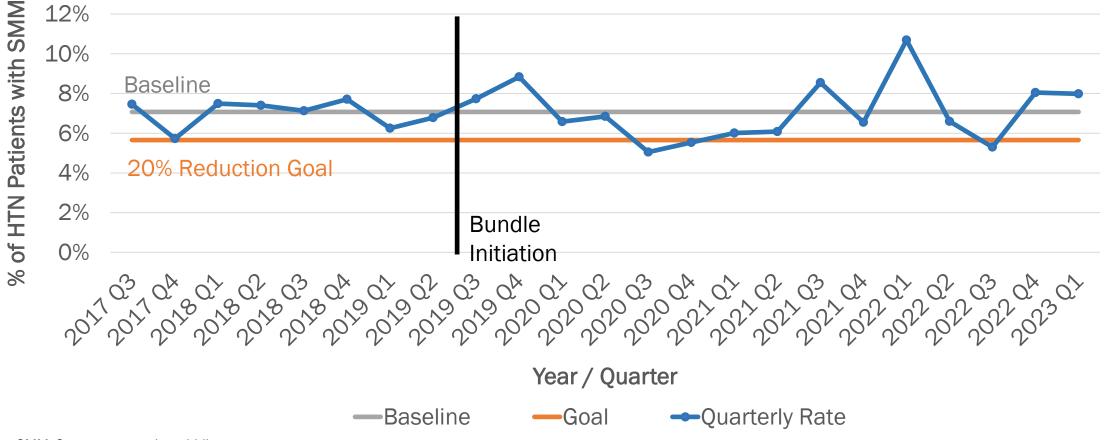
at the time of the hospital discharge.

Baseline period for each GaPQC facility included the 8 quarters prior to that facility's bundle initiation.

GaPQC Overall, Severe Maternal Morbidity (Excluding Blood Transfusions) among Hypertension Patients, by Calendar Year and Quarter



GaPQC Overall, Severe Maternal Morbidity (Excluding Transfusion-Only Cases) among Black Hypertension Patients, by Calendar Year and Quarter



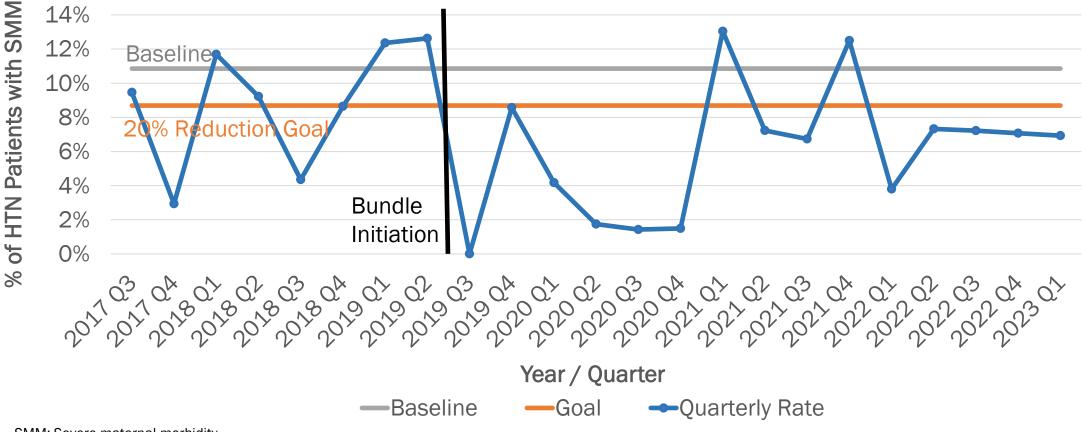
SMM: Severe maternal morbidity

Source: Georgia Hospital Association (GHA) hospital discharge data.

Discharges were included in calculations if that GaPQC facility had begun bundle participation at the time of hospital discharge.

Baseline period for each GaPQC facility included the 8 quarters prior to that facility's bundle initiation.

GaPQC Overall, Severe Maternal Morbidity (Excluding Blood Transfusions) among Hypertension Patients at Rural Hospitals, by Calendar Year and Quarter



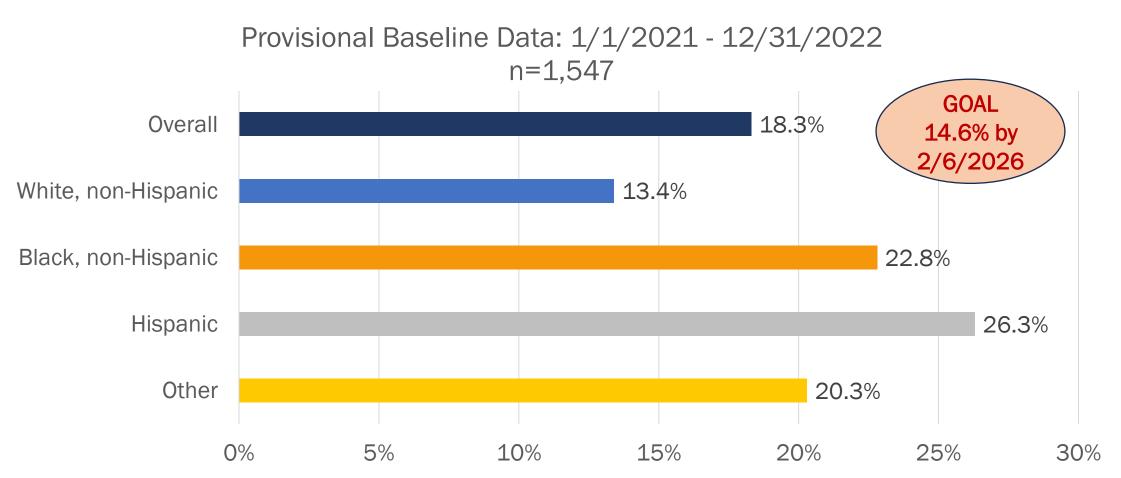
SMM: Severe maternal morbidity

Source: Georgia Hospital Association (GHA) hospital discharge data.

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Baseline period for each GaPQC facility included the 8 quarters prior to that facility's bundle initiation.

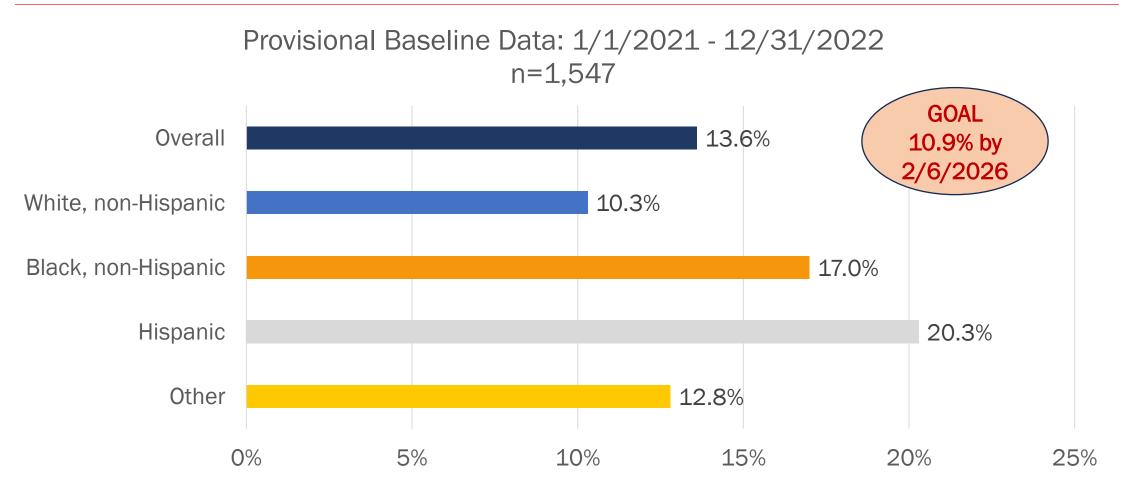
SS1: Severe Maternal Morbidity among Cardiac Patients at GaPQC CCOC Hospitals



CCOC: Cardiac Conditions in Obstetrical Care.

Denominator includes only cardiac cases delivering at 11 of 12 Georgia Perinatal Quality Collaborative (GaPQC) cardiac-participating facilities. Other race/ethnicity includes Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Multiracial, and Unknown race/ethnicity. Baseline period for cardiac bundle was 01/01/2021 – 12/31/2022. Data for 2021 have been finalized. Data for 2022 are provisional and are expected to be finalized ~Sept. 2023.

SS2: Severe Maternal Morbidity Excluding Blood Transfusions among Cardiac Patients at GaPQC CCOC Hospitals

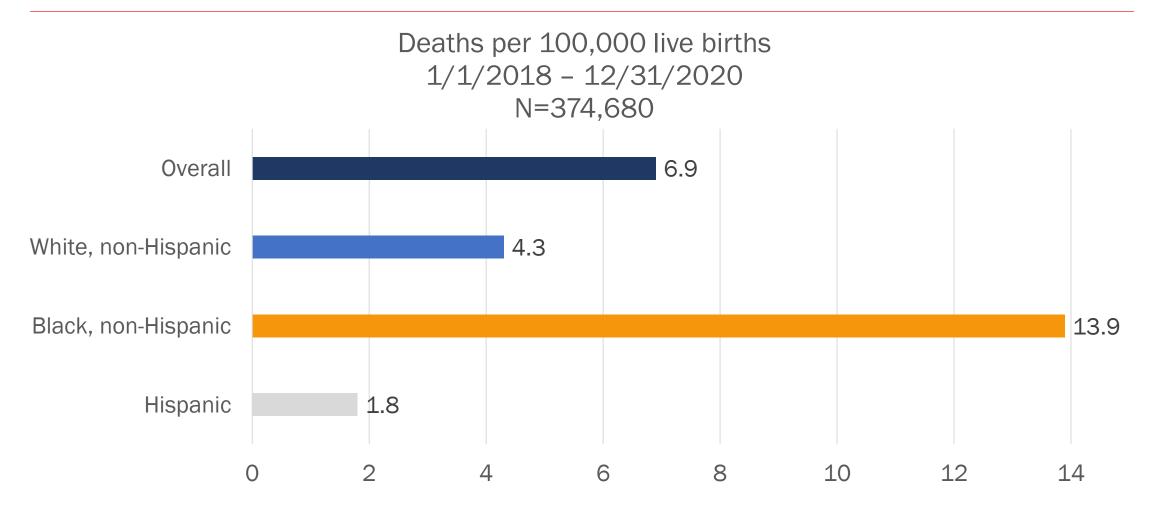


CCOC: Cardiac Conditions in Obstetrical Care.

Denominator includes only cardiac cases delivering at 11of 12 Georgia Perinatal Quality Collaborative (GaPQC) cardiac-participating facilities. Other race/ethnicity includes Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Multiracial, and Unknown race/ethnicity.

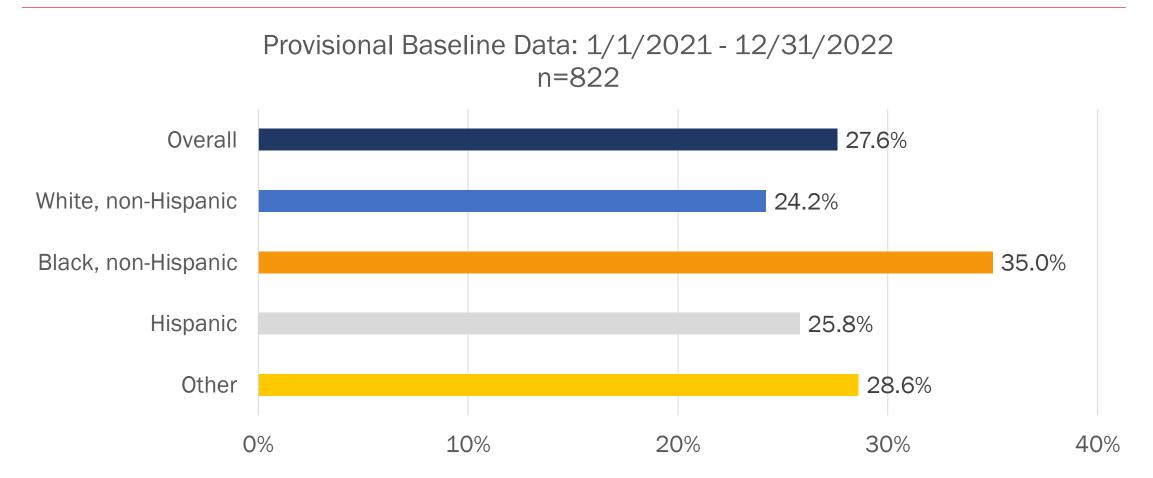
Baseline period for cardiac bundle was 01/01/2021 – 12/31/2022. Data for 2021 have been finalized. Data for 2022 are provisional and are expected to be finalized ~Sept. 2023.

SS3: Pregnancy-Related Deaths Due to Cardiac Conditions among Georgia Residents



Finalized maternal mortality data, Georgia, 2018-2020 Source: MMRIA (Maternal Mortality Review Information Application)

O1: NTSV Cesarean Birth Rate among Cardiac Patients at GaPQC CCOC Hospitals



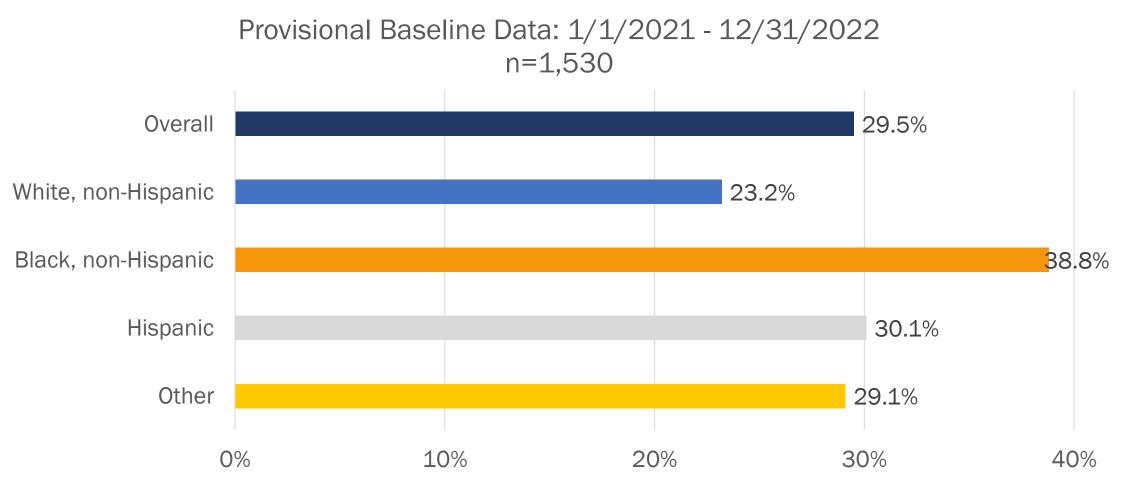
CCOC: Cardiac Conditions in Obstetrical Care.

Denominator includes cardiac cases >36 weeks gestation delivering at 11 of 12 GaPQC cardiac-participating facilities, excluding multiple gestations.

Other race/ethnicity includes Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Multiracial, Unknown

Baseline period for cardiac bundle was 01/01/2021 - 12/31/2022. Data for 2021 have been finalized. Data for 2022 are provisional and are expected to be finalized ~Sept. 2023.

O2: Preterm Birth Rate among Cardiac Patients at GaPQC CCOC Hospitals

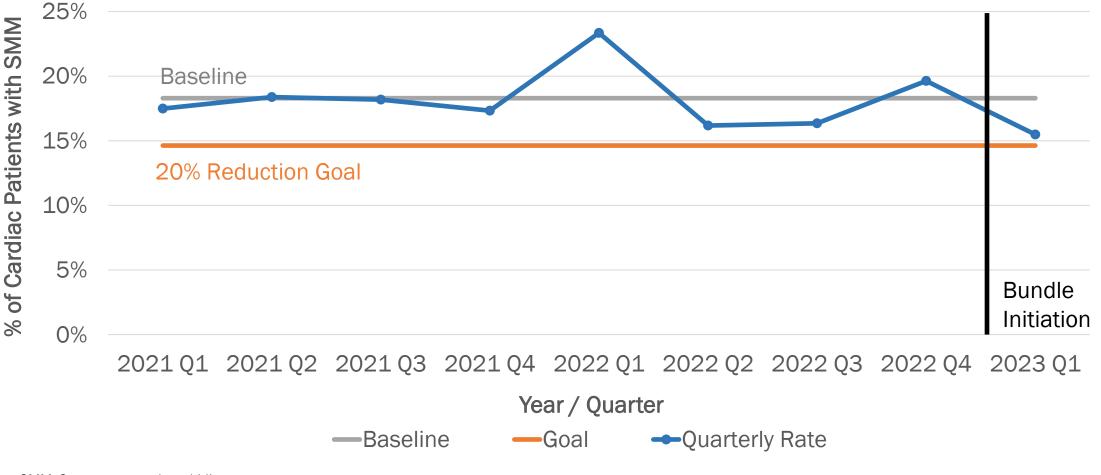


CCOC: Cardiac Conditions in Obstetrical Care.

Denominator includes cardiac cases where gestational age at delivery was known. Only cases delivering at 11 of 12 GaPQC cardiac-participating facilities are included in the denominator. Other race/ethnicity includes Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Multiracial, Unknown

Baseline period for cardiac bundle was 01/01/2021 – 12/31/2022. Data for 2021 have been finalized. Data for 2022 are provisional and are expected to be finalized ~Sept. 2023.

GaPQC Overall, Severe Maternal Morbidity Among Cardiac Patients, by Calendar Year and Quarter

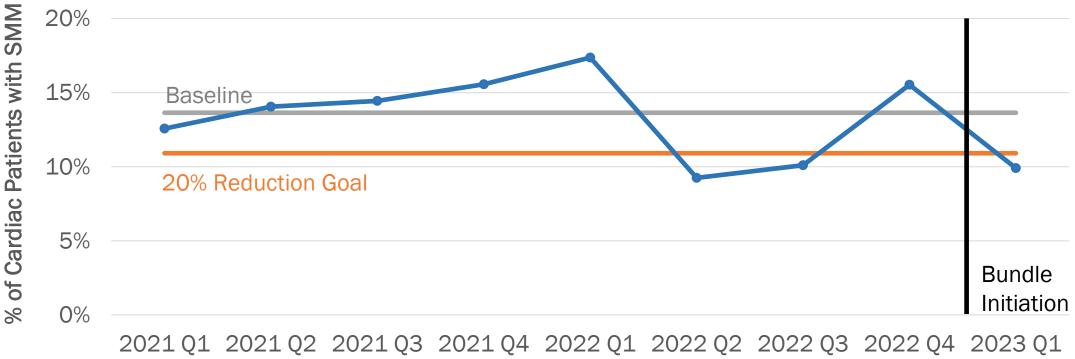


SMM: Severe maternal morbidity

Source: Georgia Hospital Association (GHA) hospital discharge data. Only cases delivering at 11 of 12 GaPQC cardiac-participating facilities are included.

Baseline period for cardiac bundle was 01/01/2021 - 12/31/2022.

GaPQC Overall, Severe Maternal Morbidity (Excluding Blood Transfusions) Among Cardiac Patients, by Calendar Year and Quarter



Year / Quarter

-Goal -Baseline Ouarterly Rate

SMM: Severe maternal morbidity

Source: Georgia Hospital Association (GHA) hospital discharge data. Only cases delivering at 11 of 12 GaPQC cardiac-participating facilities are included. Baseline period for cardiac bundle was 01/01/2021 - 12/31/2022.

GaPQC Overall, Severe Maternal Morbidity (Excluding Blood Transfusions) Among Black Cardiac Patients, by Calendar Year and Quarter



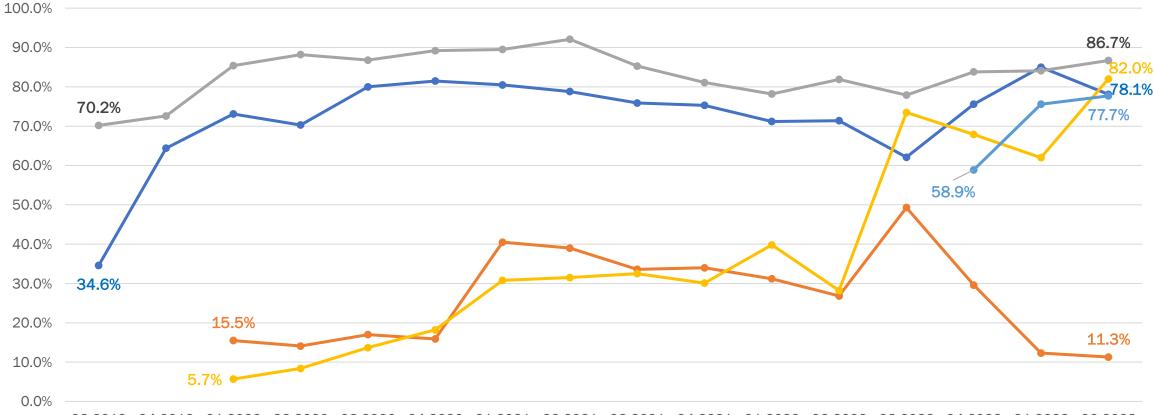
SMM: Severe maternal morbidity

Source: Georgia Hospital Association (GHA) hospital discharge data. Only cases delivering at 11 of 12 GaPQC cardiac-participating facilities are included.

Baseline period for cardiac bundle was 01/01/2021 – 12/31/2022.

Severe Hypertension Education Process Measures

Georgia Collaborative-wide Rate (July 2019 - July 2023)



Q3 2019 Q4 2019 Q1 2020 Q2 2020 Q3 2020 Q4 2020 Q1 2021 Q2 2021 Q3 2021 Q4 2021 Q1 2022 Q2 2022 Q3 2022 Q4 2022 Q1 2023 Q2 2023

- -Preeclampsia Provider Education
- ----Preeclampsia Nurse Education
- ---ED Provider & Nursing Education

- ---Implicit Bias/Equity Provider Education
- Implicit Bias/Equity Nurse Education

Hypertension Management and Treatment Process Measures

Georgia Collaborative-wide Rate (July 2019 - July 2023)



Q3 2019 Q4 2019 Q1 2020 Q2 2020 Q3 2020 Q4 2020 Q1 2021 Q2 2021 Q3 2021 Q4 2021 Q1 2022 Q2 2022 Q3 2022 Q4 2022 Q1 2023 Q2 2023

Timely Treatment of Severe HTN
 Severe HTN Postpartum BP Check

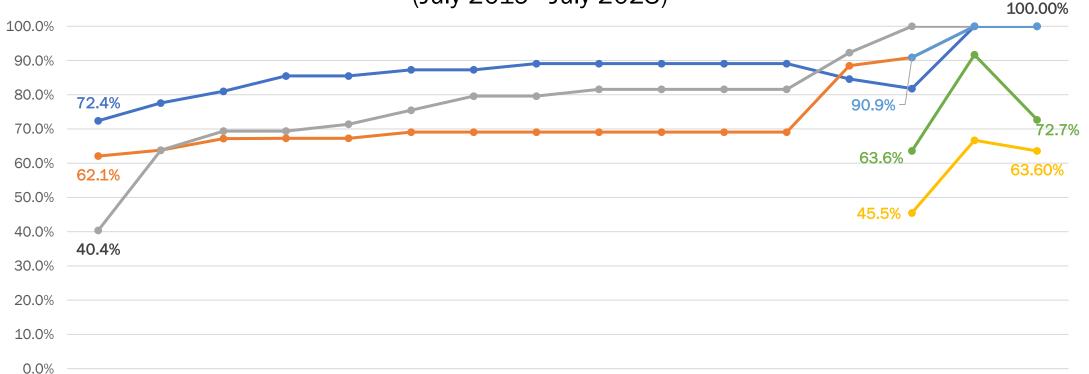
Magnesium Sulfate Treatment

All Other HTN Postpartum BP Check

Hypertension Structure Measures



Georgia Collaborative-wide Rate (July 2019 - July 2023)

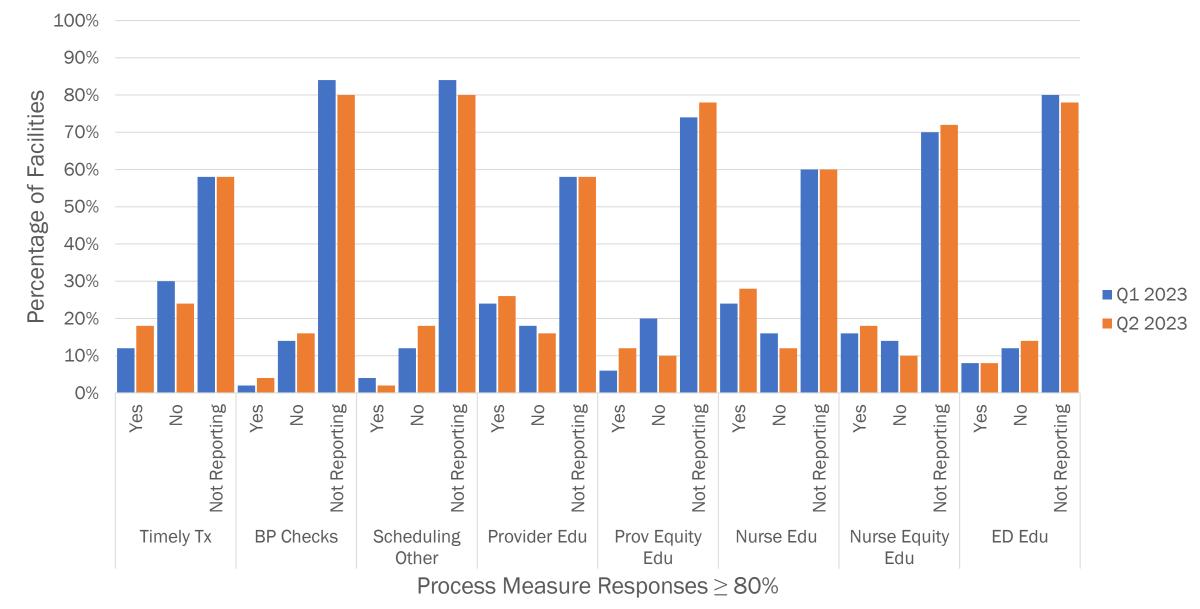


Q3 2019 Q4 2019 Q1 2020 Q2 2020 Q3 2020 Q4 2020 Q1 2021 Q2 2021 Q3 2021 Q4 2021 Q1 2022 Q2 2022 Q3 2022 Q4 2022 Q1 2023 Q2 2023

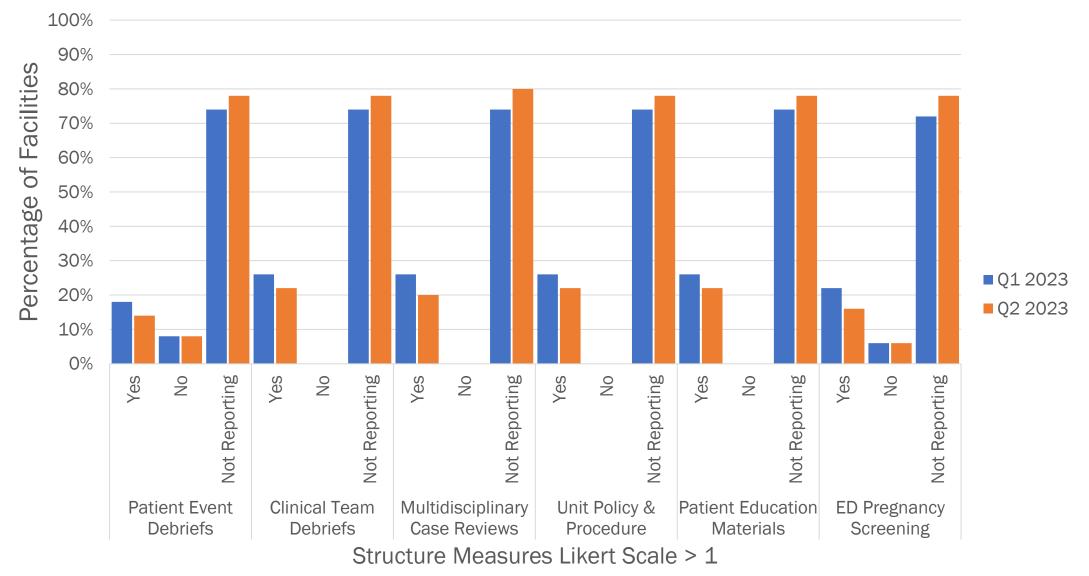
- ---Clinical Team Debriefs
- -Patient Education Materials

- ---Multidisciplinary Case Reviews
- ---Patient Event Debriefs
- ---ED Screening for Current or Recent Pregnancy

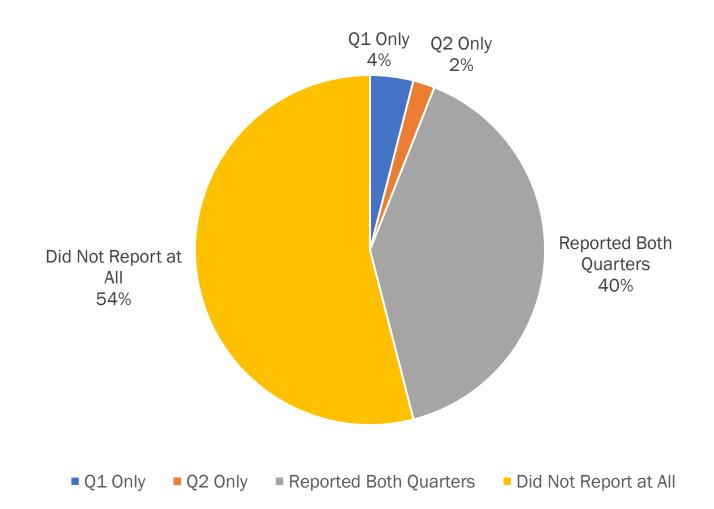
Hypertension Process Measure Reporting 2023



Hypertension Structure Measure Reporting 2023



2023 Hypertension Facility Reporting By Quarter



Questions?

DPH Women's Health Epidemiology

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Shane Reed, MHA, LSSGB GaPQC Improvement Advisor GA Department of Public Health



QI Sustainability, Social Determinants of Health & Respectful and Equitable Care

Hardwiring



What is Hardwiring?

- Hardwiring is a term that can simply be explained as consistently completing an expected action. These actions are often associated with a process.
- In Healthcare the hardwiring of a process is validated through the compliance rate of what is being measured or improved. (Example Order Set Compliance)
- A key element needed for successful Hardwiring, is the education of people on the "Why". When people understand the why, the action takes place usually and at times always.

EVERY PATIENT, EVERY TIME

Hardwiring cont.



Which one of the processes below would be considered the most "Hardwired"?

- A. The staff usually participates in peer interviews when the department hires new employees.
- B. The staff rarely reports incidents into our electronic complaint and grievance log.
- C. The staff always verifies the name and date of birth of a patient before giving a medication.
- D. The staff clocks in appropriately most of the time.





Social Determinants of Health



- What are social determinants of health (SDOH)?

✓ SDOH are the nonmedical factors that influence health outcomes. They are the conditions in which people are born, grow, work, live, and age, and the wider set of forces and systems shaping the conditions of daily life.

 Addressing differences in SDOH makes progress toward health equity, a state in which every person has the opportunity to attain their highest level of health.
 ✓ SDOH have shown to have a greater impact on health than genetic factors and access.

- A great way address SDOH is to collect data on this using a SDOH Screening Tool.
- SDOH Resources including screening tools are available at <u>www.georgiapqc.org/social-</u> <u>determinants-sdoh</u>

SDOH Screening Tool EMR Example



SDoH EMR Screener

We understand there are factors that may affect your health that are not related to your medical care. We are asking all of our patients if you would like to be connected with community resources that can help. For example, getting food or baby items, or affording medications, utilities or rent.

Would you like to be connected to resources?

___ No

___Yes

If yes, ask the following questions:

Yes/No/No Response—select one)

- 1. Are you having trouble paying your rent or bills right now?
- 2. Are you worried about having a safe and reliable place to sleep?
- 3. Are you unable to get medications that you need?
- 4. If you have children, do you have difficulty getting diapers, formula, or internet for school?
- 5. Do you have trouble getting food when you need?
- 6. Stress is common, and it can be very overwhelming. Do you experience stress that makes it hard to care for yourself or work?
- 7. Do you have trouble getting transportation to medical appointments?
- 8. Are there any other needs you have that we have not discussed?

If patient's answer yes to any of the 8 questions, utilizing <u>NowPow</u> and other internal resource lists to provide the patient with resources and consider social work consult.

Implicit Vs. Explicit Bias



- Implicit bias (Unconscious Bias)
 - When one's decisions are unconsciously influenced by pre-existing beliefs about a certain group of people.
- Explicit Bias (Conscious Bias)
 - When one is aware of their pre-existing beliefs about a specific group of people and makes intentional decisions based on these beliefs.
- Bias are not just racial but can include the following: Stereotypes, Gender, Affinity, Confirmation, Age, Conformity, Name, Beauty.

Implicit Vs. Explicit Bias Example









Health Equity Journey



Where to start?

- Connect with one or all of the following at your Organization to understand what is already being done and how the great work you are doing can assist.
 - Diversity, Equity, and Inclusion Leaders/Committee
 - Social Workers
 - Care Coordination

Community Health Needs Assessment

What work is currently being done and how is this being addressed by your organization.

Joint Commission Standards Health Equity



National Patient Safety Goal to Improve Health Care Equity

Effective July 1, 2023, Standard LD.04.03.08, which addresses health care disparities as a quality and safety priority, will be elevated to a new National Patient Safety Goal (NPSG), Goal 16: Improve health care equity, and moved to NPSG.16.01.01 for ambulatory health care organizations, behavioral health care and human services organizations, critical access hospitals, and hospitals.

Joint Commission Standards Health Equity



Organizations will be required to do the following:

- Identify an individual to lead activities to improve health care equity
- -Assess the patient's health-related social needs
- -Analyze quality and safety data to identify disparities
- Develop an action plan to improve health care equity
- -Take action when the organization does not meet the goals in its action plan
- -Inform key stakeholders about progress to improve health care equity

Coaching Overview



Common Barriers

- ED Order set initiation
- Staffing Challenges
- Physician Order set usage
- On-going Education

Coaching Sessions

- Barriers
- Successes
- PDSA's
- Shared Learning





Carla G. Allen, MSN, CENP, RNC-OB, C-EFM Administrator, Cardiovascular Services



Toscha M. Charles, RN, MSN

Nurse Navigator Cardiology Obstetrics

Augusta University Medical Center

Cardio-OB at Wellstar MCG Health



AFFILIATED WITH MEDICAL COLLEGE OF GEORGIA





OB Emergency Department



- Established in FY19
- Patients 14 wks gestation to 6 weeks postpartum
- Over 3500 patients seen in FY22 – 20% of which were postpartum



Modified Early Obstetric Warning Signs (MEOWS)

MEOWS Reference Score

TOTAL MEOWS SCORE	RESPONSE
0-2	Continue monitoring at ordered frequency.
3-5	 Notify Primary RN of results, including pain & urine output. Re-evaluate VS in 4 hours. If patient has score of 4-5 nurse should assess patient to determine if additional monitoring or physician notification is necessary.
6-8	 Notify Primary RN of results. RN to bedside within 10 minutes to further assess pain and urine output to evaluate impacts on MEOWs score. Re- evaluate VS in 1 hour. If patient has 3 consecutive scores of >6, consider moving patient to higher level of care. Immediate notification of resident MD required if Oliguria (<35ml in 2 hours), maternal agitation/confusion, or patient with hypertension reporting headache or shortness of breath.
9-21	 CALL PRIMARY RN & CHARGE NURSE IMMEDIATELY. Notify Attending MD immediately (should be available at bedside within 10 minutes). Recommended RRT & possible move to higher level of care.

MEOWS SCORE FOR PROTOCOL									
SCORE	3 (Low)	2 (Low)	1 (Low)	0	1 (High)	2 (High)	3 (High)		
PULSE	<30	30-40	41-59	60-99	100-120	121-129	130-300		
SYSTOLIC BLOOD									
PRESSURE	40-70	71-79	80-89	90-139	140-150	151-160	161-360		
DIASTOLIC BLOOD									
PRESSURE				40-89	90-99	100-110	111-360		
RESPIRATORY RATE		0-8	9-12	13-20	21-29	30-35	36-100		
SPO2	<85	86-90	91-94	95-100					
LEVEL OF					Reacts only	Agitation,			
COUSCIOUSNESS				Alert	if aroused	Confusion	Unresponsive		
		< or equal							
TEMPERATURE		to 35.0	35.1-36.0	36.1-37.9	38.0-38.5	>38.5			
URINE				No			Yes		



if additional monitoring or physician notification is necessar.





Program Development

- OB & Cardiology Attending met to discuss plan for identification initially of postpartum women for echo & follow up with preeclampsia diagnosis.
- Cardiology Practice Site opened once monthly clinic on Fridays for half-day sessions in July 2021







The Evolution

FY22

Program starts with 1 $\frac{1}{2}$ day clinic

Dr. Ray introduces program at Perinatal Quality for inpatient knowledge & referral

Dr. Ray presents to faculty & residents at Grand Rounds for education on this new program offering.

FY23

DPH Grant Award for Cardio-Obstetric program development

Formal commitment to GaPQC to participate in the program

First formalized Cardio-OB team meeting Clinics expanded from monthly to weekly Toscha Charles begins as Cardio-OB Nurse Navigator

Attends Inpatient Rounds to risk stratify patients
Rounds on patients in the inpatient setting
Follow up calls to outpatients for education & reminders

Begins networking with other providers
Develops standardized referral program
Additional of Dr. Bethel & Meredith Saxon, NP to team

Utilization of Virtual Care at Home program Partnership with Dr. Marlo Vernon & Population

Partnership with Dr. Marlo Vernon & Population Health

VidaRPM program beginsAdditon of Dietician & Patient Educator

FY24

Echo appointments now with obstetric slots in templates to accommodate patients on the same day as their Cardio-OB office visit

Telehealth Expansion as well as VidaRPM service expansion

Food as Medicine Program Start Up

New Population Health/Cardio-OB Nurse Educator joining the team on 9/10/2023

Utilization of Mobile Care Van to provide local care to patients

Regional Outreach to all OB providers as well as family medicine practices for referrals

Outreach education for emergency departments at non-delivering hospitals through Rural Emergency Medicine Program & Maternal Outreach



The Team



Gyanendra Sharma, MD Cardiology Program Co-Director



Chadburn Ray, MD Obstetrics and Gynecology Program Co-Director



Monique Bethel, MD Cardiology



Padmashree Woodham, MD Maternal-Fetal Medicine



James Maher, MD Maternal-Fetal Medicine



Meredith Saxon, NP, MBA Lead Cardiology Advanced Practice Provider



Toscha Charles, RN, MSN Cardio-Obstetrics Nurse Navigator



Outcomes



- FY 22
 - 67 Patients
 - 10 Cardiomyopathy
 - 8 Pre-Eclampsia
- FY23
 - 232 Patients
 - 54 Cardiomyopathy
 - 58 Pre-Eclampsia
 - Remote Care Milestones
 - 26 Patients Referred to Population Health for vidaRPM
 - 2 referrals to Virtual Care at Home



Never settle for good when great is available.

Orrin Woodward, Author



Questions?

