WELCOME TO THE MONTHLY LEARNING WEBINAR

The presentation will begin shortly
General Housekeeping

• Use the chat box to register your name, facility represented and all participating team members.

• To prevent distractions, please mute all phones:
  – Please DO NOT put phones on hold to avoid playing background music we are unable to control.

• Use the chat box for questions during the presentation but please hold comments until the end of the session.

• All collaborative members want to learn from your wins and challenges so please share!
Key Driver Diagram: Maternal Hypertension Initiative

GOAL: To reduce preeclampsia maternal morbidity in Georgia hospitals

Key Drivers

- **Readiness:** Implementation of standard processes for optimal care of severe maternal hypertension in pregnancy
- **Recognition:** Screening and early diagnosis of severe maternal hypertension in pregnancy
- **Response:** Care management for every pregnant or postpartum woman with new onset severe hypertension
- **Reporting/Systems Learning:** Foster a culture of safety and improvement for care of women with new onset severe hypertension

Interventions

- Implement standard order sets and/or algorithms for early warning signs, diagnostic criteria, timely triage, monitoring and treatment of severe hypertension
- Ensure rapid access to medications used for severe hypertension with guide for administration and dosage
- Implement system plan for escalation, obtaining appropriate consultation, and maternal transport
- Perform regular simulation drills of severe hypertension protocols with post-drill debriefs
- Integrate severe hypertension processes (e.g. order sets, MEWS/OBEWS) into EHR
- Standardize protocol for measurement and assessment of blood pressure and urine protein for all pregnant and postpartum women
- Standardize response to early warning signs including listening to and investigating symptoms and assessment of labs
- Implement facility-wide standards for patient-centered education of women and their families on signs and symptoms of severe hypertension
- Educate OB, ED, and anesthesiology physicians, midwives, and nurses on implicit bias and recognition and diagnosis of severe hypertension that includes utilizing resources such as the AIM hypertension bundle and/or unit standard protocol
- Execute facility-wide standard protocols for appropriate medical management in under 60 minutes
- Create and ensure understanding of communication and escalation procedures
- Develop OB-specific resources and protocols to support patients, families, staff through major complications
- Provide patient-centered discharge education materials on the signs and symptoms of preeclampsia and postpartum preeclampsia and when to seek medical assistance
- Implement patient protocols to ensure follow-up within 7-10 days for all women with severe hypertension and 72 hours for all women on medications
- Establish a system to perform regular debriefs after all new onset severe hypertension cases
- Establish a process in hospital to perform multidisciplinary systems-level reviews on all severe hypertension cases admitted to ICU
- Continuously monitor, disseminate, and discuss monthly AIM/GaPQC data reports at staff/administrative meetings
- Add maternal hypertension assessment and treatment protocols and education to provider and staff orientations, and annual competency assessments

AIM: By 12/31/2021, to reduce the rate of severe morbidity in women with preeclampsia, eclampsia, or preeclampsia superimposed on pre-existing hypertension by 20%
## AIM HTN Structure Measures

<table>
<thead>
<tr>
<th>Measure</th>
<th>Report Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S1: Patient, Family &amp; Staff Support</strong></td>
<td>Has your hospital developed OB specific resources and protocols to support patients, family and staff through major OB complications?</td>
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<td><strong>S2: Debriefs</strong></td>
<td>Has your hospital established a system in your hospital to perform regular formal debriefs after cases with major complications?</td>
</tr>
<tr>
<td><strong>S3: Multidisciplinary Case Reviews</strong></td>
<td>Has your hospital established a process to perform multidisciplinary systems-level reviews on all cases of severe maternal morbidity (including women admitted to the ICU, receiving ≥4 units RBC transfusions, or diagnosed with a VTE)?</td>
</tr>
<tr>
<td><strong>S4: Unit Policy and Procedure</strong></td>
<td>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?</td>
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<td><strong>S5: EHR Integration</strong></td>
<td>Were some of the recommended Severe HTN/Preeclampsia bundle processes (i.e. order sets, tracking tools) integrated into your hospital’s Electronic Health Record system?</td>
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</table>
## AIM HTN Process Measures

<table>
<thead>
<tr>
<th>Process Measures</th>
<th>Description</th>
</tr>
</thead>
</table>
| P1: Unit Drills                         | Drills  
The number of OB drills performed on any maternal safety topic?                                                                         |
| P2: Provider Education                  | Provider Education  
The number of OB MDs and CNMs completing an education program on severe HTN/Preeclampsia? The number who completed education on the severe HTN/Preeclampsia bundle elements and unit standard protocol? The number who completed training on implicit bias? |
| P3: Nursing Education                   | Nursing Education  
The number of OB MDs and CNMs completing an education program on severe HTN/Preeclampsia? The number who completed education on the severe HTN/Preeclampsia bundle elements and unit standard protocol? The number who completed education on implicit bias? |
| P4: Treatment of Severe HTN             | Treatment  
The number of women with persistent new onset HTN that were treated within 1 hour with IV Labetalol, IV Hydralazine or PO Nifedipine? |
| P5: Administration of Magnesium Sulfate | Magnesium Sulfate  
The number of mothers with severe preeclampsia or preeclampsia with severe features that were treated with Magnesium Sulfate? |
## GaPQC Hypertension Goals by 12/2021

<table>
<thead>
<tr>
<th>Measure</th>
<th>Type</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Severe Maternal Morbidity</strong></td>
<td>Outcome</td>
<td>20% reduction</td>
</tr>
<tr>
<td>No. of women with severe maternal morbidities (e.g. Acute renal failure, ARDS, Pulmonary Edema, Puerperal CNS Disorder such as Seizure, DIC, Ventilation, Abruptio) / No. pregnant &amp; postpartum women with new onset severe range HTN</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Appropriate Medical Management in under 60 minutes</strong></td>
<td>Process</td>
<td>100%</td>
</tr>
<tr>
<td>No. of women treated at different time points (30,60,90, &gt;90 min) after elevated BP is confirmed / No. of women with new onset severe range HTN</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em><em>Debriefs on all new onset severe range HTN</em> cases</em>*</td>
<td>Process</td>
<td>100%</td>
</tr>
<tr>
<td><strong>Discharge education and follow-up</strong></td>
<td>Process</td>
<td>100%</td>
</tr>
<tr>
<td>within 7-10 days for all women with severe range HTN, 72 hours with all women with severe range HTN on medications</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* HTN - Hypertension
# Reporting Requirements

<table>
<thead>
<tr>
<th>Severe HTN/Eclampsia</th>
<th>Email completed template to TERRIL Flakes at <a href="mailto:terrill.flakes@dph.ga.gov">terrill.flakes@dph.ga.gov</a></th>
<th>Reporting time period (02/01/2020 - 09/30/2020)</th>
<th>COMMENTS</th>
<th>NOT RECALLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1: Data Collection</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1.1: Data Collected</td>
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<tr>
<td>P1.2: Data Collected</td>
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<tr>
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<td></td>
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</tr>
<tr>
<td>P2: Provider Education</td>
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**Severe HTN/Eclampsia**

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SEVERE HYPERTENSION DATA FORM: BEDSIDE

Header - Section 1:
- Date:

GA at Event (weeks & days) or # Days Postpartum:

Patient Location (check all that apply):

- Trap
- L&D
- Postpartum
- Antepartum
- ID

Mental Status:

- Height:
- Current Weight:

Diagnosis:

- Chronic HTN
- Gestational HTN
- Preeclampsia
- Superimposed Preeclampsia
- Postpartum Preeclampsia
- Other:

PROCESS MEASUREMENT (P1): Medical Management

Times:

- Measure:
- BP reached >160 or diastolic >110 (sustained >15 min):
- First BP mod given:
- BP reached >160 and diastolic >110:

Medications:

- Labetalol
- Hydralazine
- Nifedipine
- Magnesium Sulfate: Bolus
  - 4 gm over 1 hour
- Magnesium Sulfate: Infusion
  - 1 gm/hr
- 2 gm/hr
- 4 gm/hr
- Any ANH of <14 mmol/L:
- Partial Course
- Complete Course

BALANCING MEASURE (O.02): Monitor Medical Management

B1. Did diastolic pressure fall to <90 within one hour after meds given?

- YES
- NO

B2. If yes, was this corresponding deterioration in HR rate (Category 3)?

- YES
- NO
- NA (for postpartum patients)

Opportunities for improvement to reduce time to treatment (identification severe HTN to treatment goal <90 minutes):

Debrief:

Debrief Participants: Primary MD: YES/NO Primary RN: YES/NO

TEAM ISSUES

- Weight
- Bias evaluation

- Comments

STYM ISSUES

- Weight
- Needs improvement

- Comment

- HTN medication initiation
- Transportation (intra, interhospital)
- Acquiring situation
- Decision making
- Teamwork

Leadership:

Severe Hypertension DATA FORM: CHART ABSTRACT

Header - Section 2:
- Date:

GA at Delivery (weeks & days):

OB COMPLICATIONS (check all that apply):

- DIC
- Hemorrhage with transfusion of > 4 units of blood products
- Intracranial Hemorrhage or ICH event
- Pneumonia
- OD admission
- HELLP Syndromes
- Optic neuropathy
- Esophagus
- Renal failure
- Liver failure
- Ventilation
- Other:

Adverse Maternal Outcome:

- NICU admission
- NFO

Maternal Readiness (check all that apply):

- White
- Black
- Hispanic
- Asian

Maternal Transport:

- Transport In?: YES/NO Date:
- Transport Out?: YES/NO Date:

PROCESS MEASUREMENT (P3): Discharge Management

A. Discharge Education: Education materials about preeclampsia given?

- YES
- NO

B. Discharge Management: Follow-up appointment scheduled within 10 days

- YES
- NO

- Women with severe range hypertension/preeclampsia

- YES
- NO

- Was patient discharged on meds?

- YES
- NO

- YES: Was follow up appointment scheduled in >72 hours?

- YES
- NO

COMMENTS about Medical Management, Monitoring, Discharge:

Adapted from ILOQC and CMQC's Preeclampsia: Debriet and Chart
Implicit Bias Training Resources

- [https://implicit.harvard.edu/implicit/takeatest.html](https://implicit.harvard.edu/implicit/takeatest.html)

Future training opportunities:

- Cook Ross: Annual Meeting Presentation, Online Training and Train the Trainer Course
Educating Patients: What they need to know

Presented to

Rebecca Britt
Director of Education & Engagement
Learning Objectives

• Understand why educating all pregnant women about preeclampsia signs & symptoms is important for timely diagnosis of disease.
• Utilize two methods for ensuring patient understanding of information.
• Convey appropriate information during prenatal and postpartum periods.
What is Preeclampsia? Any Woman, Any Pregnancy

- Hypertensive disorder of pregnancy
- Typically occurs after 20 weeks gestation and up to 6 weeks postpartum
- There is no known cause or cure
- Preeclampsia can happen to any woman, any pregnancy
How is Preeclampsia Diagnosed?

– BP 140/90+ (2 readings 4 hrs apart)
  • Or one reading of 160/110+
– Proteinuria: 300 mg in 24 hr urine collection
  • Dipstick reading of 2 Or in the absence of proteinuria:
  • In association with (new onset):
    • Thrombocytopenia – low platelet count
    • Impaired liver function
    • Renal insufficiency - poor kidney function
    • Pulmonary edema – fluid around the lungs
    • Cerebral or visual disturbances

Prevalence of Preeclampsia

- 2-8% or approximately 1 in 25 pregnancies are complicated by preeclampsia
- A leading cause of maternal morbidity and mortality
- African American women are 3x more likely to die from preeclampsia
- 75% of Preeclampsia related deaths happen postpartum

Top 5 Reasons Providers Don’t Educate Their Patients about Preeclampsia

1. Not enough time
2. Patients already get too much information
   • Can’t absorb it all
   • Too anxious about their pregnancies
3. Materials are not written at a low enough grade level
4. My patients only speak Spanish
5. I don’t have a budget for education materials
Preeclampsia Challenges

• Syndrome, not a defined disease entity; diagnosis does not predict outcomes
• Missed diagnoses (gall bladder, neurological, “normal” pregnancy, “white coat” HTN)
• Best prenatal care leaves large gaps in time until late in the pregnancy
• Two patients must be considered
• Symptoms are not unique to PE and may/may not be present
Symptoms

• Swelling of the face or hands
• Headache that won’t go away
• Visual disturbances
• Stomach or URQ pain
• Nausea/vomiting (after 20 weeks)
• Sudden weight gain
• Breathlessness
• “just not feeling right”; unexplained
Patient Education: Does it Really Matter?

- Patient is often the first responder; can speed time to diagnosis, impact outcomes
- What she needs to know is not obvious
- With greater understanding of seriousness, greater compliance and reporting
- Patient education is currently not routinely provided by health care providers
- And when it is, information is often not understood
Factors Associated with Patient Understanding of Preeclampsia

- Pregnant women able to provide characteristics that correctly reflected preeclampsia.
- Score on a quiz of 25 relatively simple questions about preeclampsia.

Factors Associated with Patient Understanding of Preeclampsia

Preventable

60%

of maternal deaths due to preeclampsia are preventable

Deadly Consequences

• Based on a CMQCC Maternal Mortality Review of over 200 cases of pregnancy related deaths, delays in seeking care appeared to be directly related to fatal outcomes

• A common theme in cases reviewed was their apparent lack of knowledge of the significance of symptoms and when to seek medical attention.
It Matters Because?

When women know how to recognize the signs and symptoms, and they understand the explanations offered, they are more likely to report symptoms and comply with prescribed treatments.
Maternal Recognition Improves Outcomes

“The best way to diagnose preeclampsia is to listen to your patients.”

~ Dr. Baha Sibai
But It’s Not That Easy - Demi’s Story
Proper response isn’t happening.......
Patient Education *reinforces* Provider Education
PREGNANT! HAVING ANY OF THESE?

VOMITTING IN LATE PREGNANCY

ACT NOW!

SEEING SPOTS, SEEING DOUBLE, UNABLE TO SEE,

HEADACHE ABOVE THE EYES

SWOLLEN HANDS, FEET OR FACE

VAGINAL BLEEDING

BELLY ACHES

CHECK WITH

..........................................................
That’s Why...

...Now when? And how?
Prenatal Education

15-20 weeks
• Provide printed materials (low lit, magnets, tear off pad)
• Assess patient health literacy. Does she understand?

20 weeks+
• Review warning signs OFTEN for women considered at risk, occasionally for women at low risk.
• Check for understanding. “Have you experienced...?”
• Check proper behavior response. “What would you do if you experienced...?”
• Take home reminders, hardcopy materials

Outpatient management
• Extra vigilance to ensure patient knows all warning signs and does not hesitate to make contact immediately.
• Consider geography and length of travel time to care.
Key Strategies for Effective Patient Communication

• Do not assume your patient’s literacy level or understanding by appearance
• In both oral and written communication, use plain, non-medical language
• Speak slowly
• Organization information into 2 or 3 components (chunk & check)
• Use “teach back” to confirm understanding with open-ended Q’s
Your Patient Education Toolkit
Preeclampsia Tear Pad

- Each tear pad has 50 sheets
- They are double sided with English on the front and Spanish on the back
- The colors are evidence based, and proven to better get an expecting mom’s attention
- The illustrations and language is targeted to low literacy audiences
- Increases patient and provider awareness
Postpartum Tear Pad

- New in 2018 – For Postpartum Moms
- Great for use during hospital discharge or for at-risk patients before delivery
- They are double sided with English on the front and Spanish on the back
- The illustrations and language is targeted to low literacy audiences
- Can also help trigger early follow-up appointments

You are STILL AT RISK after your baby is born!

What is it?
Postpartum preeclampsia is a serious disease related to high blood pressure. It can happen to any woman who has just had a baby up to 6 weeks after the baby is born.

Risks to You
- Seizures
- Stroke
- Organ damage
- Death

Warning Signs
- Stomach pain
- Severe headaches
- Feeling nauseous or throwing up
- Seeing spots (or other vision changes)
- Swelling in your hands and face
- Shortness of breath

What can you do?
- Ask if you should follow up with your doctor within one week of discharge.
- Keep all follow-up appointments.
- Watch for warning signs. If you notice any, call your doctor. (If you can’t reach your doctor, call 911 or go directly to an emergency room and report you have been pregnant.)
- Trust your instincts.

For more information, go to www.stillatrisk.org
Postpartum Education

• Common misconception: “Delivery is the cure”
• 75% of preeclampsia related deaths happen in the postpartum period
• Vulnerable period, exacerbated by PPD, unknown experience, sleep deprivation, focus is on baby
• Same warning signs
• Up to 6 weeks PP
• Health systems are not optimized for PP (ER?)
• Discharge instructions must be clear, inclusive!

Patient Education Videos

- 7 Symptoms Every Pregnant Woman Should Know
- Ask About Aspirin
- Postpartum Preeclampsia
Summary

• Prenatal and post partum patient education about preeclampsia is recommended for timely diagnosis and improved outcomes, supported by upcoming ACOG guidelines

• Ensure comprehension; use proven techniques
  • Chunk & Check
  • Teach back
  • Illustrated symptoms tear pads

• Women want/need this information!
Do your patients know about preeclampsia?

Brochures • Posters • Tear Pads • Videos
Available in multiple languages
Order educational materials online at www.preeclampsia.org/store

rebecca.britt@preeclampsia.org

© Preeclampsia Foundation. Confidential. All rights reserved.
References

• English F, Kenny L, McCarthy, F. Risk factors and effective management of preeclampsia. Integr Blood Press Control. 2015; 8: 7–12
Patient Education
# Patient Education

## POST-BIRTH WARNING SIGNS

<table>
<thead>
<tr>
<th>IF YOU HAVE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pain in your chest</td>
</tr>
<tr>
<td>Obstructed breathing or shortness of breath</td>
</tr>
<tr>
<td>Seizures</td>
</tr>
<tr>
<td>Thoughts of hurting yourself or your baby</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>YOU SHOULD:</th>
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<tbody>
<tr>
<td><strong>CALL 911</strong></td>
</tr>
</tbody>
</table>

<table>
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<tbody>
<tr>
<td>Bleeding, soaking through 1 pad/hour or blood clots the size of an egg or larger</td>
</tr>
<tr>
<td>Incision that is not healing</td>
</tr>
<tr>
<td>Red or swollen leg that is painful or warm to touch</td>
</tr>
<tr>
<td>Temperature of 100.4 degrees or higher</td>
</tr>
<tr>
<td>Headache that does not improve, even after taking medication, or a severe headache with vision changes</td>
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<tr>
<td><strong>CALL YOUR HEALTHCARE PROVIDER</strong></td>
</tr>
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If you cannot reach your healthcare provider, call 911 or go to the nearest emergency room!

Tell 911, the provider, and emergency department:

I HAD A BABY ON *(DATE)* AND AM HAVING *(COMPLICATION)*
Discharge Instructions Following Delivery of Baby

Hypertension/Preeclampsia

During your hospitalization, you have been treated for hypertension, preeclampsia, or HELLP syndrome. Preeclampsia is a problem that can occur in the late stages of pregnancy and even during the first few weeks postpartum (after delivery of your baby), and can cause high blood pressure, protein in the urine and sometimes other symptoms such as headaches, blurred vision, breathlessness, and swelling of the hands or face. In the past, it has been called "toxemia" or "pregnancy-induced hypertension". HELLP syndrome is a variation of preeclampsia that directly affects your liver and blood platelets.

Preeclampsia can be mild or severe. If it isn’t treated, preeclampsia can turn into a serious problem called "eclampsia" in which seizures occur.

When you go home, follow these instructions:

- Keep your follow up appointments with your doctor. These may be frequent and are very important for your health. Your first follow up appointment should occur within the first 7-14 days after going home.
- Take all medications prescribed for you exactly as ordered.
- Weigh yourself at the same time each day. Write down your weight and take this record with you to your doctor visits.
- If ordered by your doctor, monitor your blood pressure. Write down your blood pressure and take this record with you to your doctor visits.
- Eat a healthy, balanced diet. Your doctor will tell you if you need to follow any special restrictions in what you eat.
- Don’t smoke.
- Don’t drink alcohol or use any drugs not prescribed to you.
- Ask your doctor before taking any medications that he or she didn’t prescribe for you. This includes any over-the-counter medications.

Call your doctor if:

- Your blood pressure is greater than 160 systolic (the top or first number)
- Your blood pressure is greater than 105 diastolic (the bottom or second number)
- You have a severe headache or dizziness.
- You have any headache that is not relieved with Tylenol or ibuprofen.
- You have pain in your belly, especially the right upper area below your ribs.
- You have blurry or double vision, see spots or auroras.
- Your swelling is worse.
- You gain more than 8 pounds in 3 days.
- You have serious difficulty catching your breath.
- You have any new or unusual symptoms.
- You have any questions or concerns.

If you have any of the above symptoms, call your physician immediately. If you are unable to reach your physician, you need to go to the emergency room for evaluation. Be sure to tell them you just had a baby and you had preeclampsia.
Education Plan for Hypertension Teams

Webinars
• December 3rd: Clinical Simulation Drills
• January 7th: Complications and Special Circumstances (HELLP, PRES Syndrome, Atypical Preeclampsia)
• February 4th: Outpatient Management of Preeclampsia
• March 3rd: Partnership with Emergency Department

Regional Training:
• Clinical Simulation Drills and Debrief
Questions?