Welcome!

We are so glad you are here!

We will get started shortly. In the meantime, we invite you to intentionally enter this space.



Silence your cell phone



Stretch



Close the door



Take a few deep breaths



Close browser windows



Emotionally release your to-do list



Check your audio and video



Take a bio break







Healthier Outcomes in Preeclampsia Webinar

Wednesday, May 31, 2023 3:00pm — 4:30pm ET

The Healthy Start TA & Support Center is operated by the National Institute for Children's Health Quality (NICHQ). This project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) under grant number 1 UF5MC327500100 titled Supporting Healthy Start Performance Project.

National Institute for Children's Health Quality



TA & SUPPORT CENTER

HEALTHIER OUTCOMES IN PREECLAMPSIA WEBINAR

Agenda

Housekeeping & Welcome

Wykinia Jones

HEALTHY START TA & SUPPORT CENTER (TASC)

Healthier Outcomes in Preeclampsia Webinar

Carrie MacMillan Eleni Tsigas

PREECLAM PSIA FOUNDATION

Wrap-up

Wykinia JonesTASC





THIS SESSION IS BEING RECORDED.



ALL PARTICIPANTS ARE MUTED UPON ENTRY. WE ASK THAT YOU REMAIN MUTED TO LIMIT BACKGROUND NOISE.



PARTICIPANTS ARE ENCOURAGED TO SHARE COMMENTS AND ASK QUESTIONS USING THE CHAT BOX.



HEALTHIER OUTCOMES IN PREECLAMPSIA WEBINAR HOSTED BY THE HEALTHY START TA & SUPPORT CENTERAT NICHQ

Healthier Outcomes in Preclampsia Webinar

Eleni Tsigas
Carrie MacMillan

PREECLAM PSIA FOUNDATION





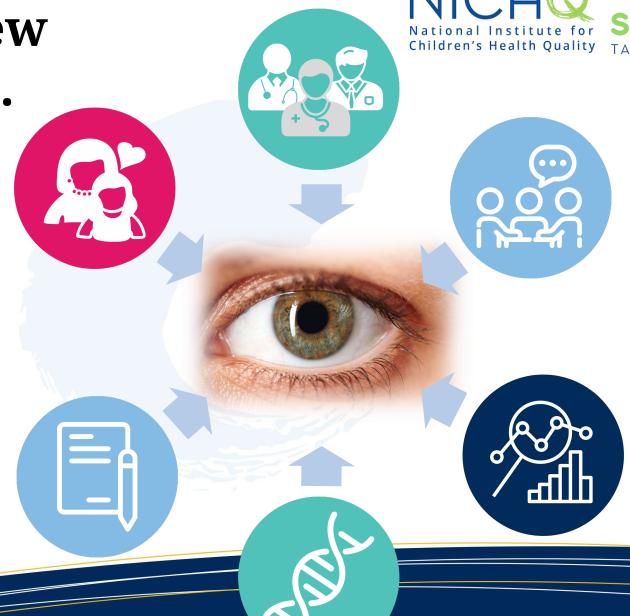
Today's Agenda

National Institute for Children's Health Quality TA & SUPPORT CENTER

- Introduction
- What is Preeclampsia?
- Who Gets Preeclampsia?
- Diagnosis / Signs & Symptoms
- Blood Pressure Measurement
- Clinical Protocols Quick View
- Postpartum Effects
- Empowering Patient Voices
- Q&A



Our Point of View is informed by...







Mission

Our purpose is to improve the outcomes of hypertensive disorders of pregnancy by educating, supporting and engaging the community, improving healthcare practices, and finding a cure.



Our 3 Pillars of **Purpose** are symbiotic, each fueling the other.











MAY 20 23

#PreeclampsiaAwarenessMonth **A SNAPSHOT**

patients participating in research through the Preeclampsia Registry

8,717 600,000+ accounts reached by our channels















#WorldPreeclampsiaDay

38 AM accounts reached



31 countries

53 languages



preeclampsia.org page visits in May



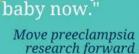
Cuff Kits distributed throughout

THEME: Move Preeclampsia Research Forward

No family should face early delivery due to

PREECLAMPSIA.

We need better treatment options than "we have to deliver your





Most shared graphic

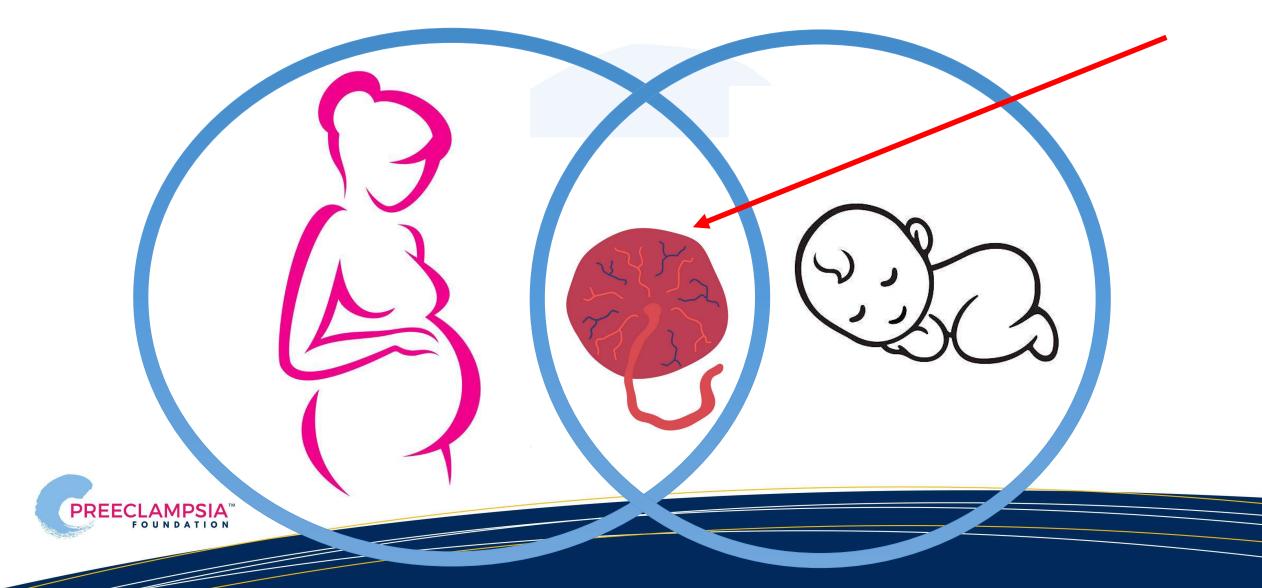


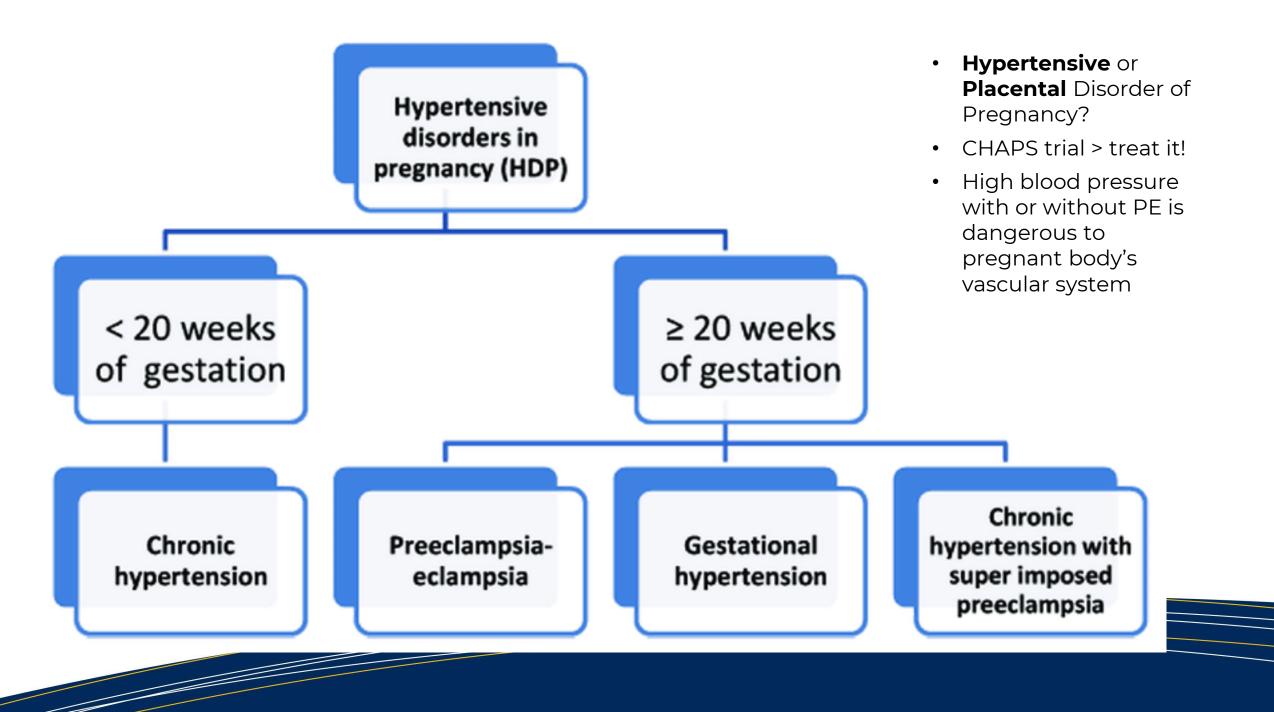
Poll





What Causes Preeclampsia?





Any Woman, Any Pregnancy

- Preeclampsia typically occurs after 20 weeks gestation and up to 6 weeks postpartum
- The incidence of preeclampsia is rising in the US
- African American and Native American women are 3x more likely to die from preeclampsia



4-10%

of pregnancies in the US

9%

of maternal deaths

19%

of medically indicated preterm births







Who
Gets
It?
Risk Factors



Risk Level	Risk Factors	Recommendation
High	 History of preeclampsia in previous pregnancy Multifetal gestation (twins, triplets, etc.) Chronic hypertension (high blood pressure) Type 1 or 2 diabetes Renal disease (kidney disease) Autoimmune disease (lupus, antiphospholipid syndrome, etc.) 	Recommend low-dose aspirin if the patient has one or more of these high-risk factors
Moderate	 Nulliparity (never having given birth) Obesity (body mass index (BMI) >30) Family history of preeclampsia (mother or sister) Age ≥35 or <18 years old Personal history (e.g., low birthweight or small for gestational age, previous adverse pregnancy outcome, >10-year pregnancy interval) Social influencers on health (e.g., Black, rural, Medicaid insurance) 	Consider low-dose aspirin if the patient has two or more of these moderate-risk factors
Low	Previous uncomplicated full-term delivery	Do not recommend



Final Recommendation Statement: Low-Dose Aspirin for the Prevention of Morbidity and Mortality From Preeclampsia: Preventative Medicine. 2016. Retrieved from U.S. Preventive Services Task Force. Gestational hypertension and preeclampsia.

ACOG Practice Bulletin No. 222. American College of Obstetricians and Gynecologists. Obstet Gynecol 2020;135:e237-60.

Who Gets It? Risk Factors



BMI CALCULATOR



Risk Level History of preeclan Multifetal gestation Chronic hypertensi High Type 1 or 2 diabetes • Renal disease (kidn Autoimmune disea syndrome, etc.) Nulliparity (never h Obesity (body mass Family history of pr Age ≥35 or <18 year Moderate Personal history (e. gestational age, pre outcome, >10-year Social influencers c Medicaid insurance Previous uncompli Low

Ask About Aspirin

It may delay or prevent the onset of preeclampsia

If you have any of these risk factors





Pregnant with more than one baby



preeclampsia



High blood Dia





se Autoimmur disorders

Treatment with low-dose aspirin should not decrease regular monitoring and response by a certified care provider. If you experience signs or symptoms of preeclampsia, notify your care provider. Talk

to your care provider about taking prenatal aspirin

Start taking 81mg aspirin



between
12-16 weeks
of your pregnancy
daily at bedtime

Recommendation

Recommend low-dose aspirin if the patient has one or more of these high-risk factors

Consider low-dose aspirin if the patient has two or more of these moderate-risk factors

Do not recommend

Final Recommendation State: Preventative Medicine. 2016. preeclampsia.

ACOG Practice Bulletin No. 22



To learn more, visit preeclampsia.org/aspirin

rce. Gestational hypertension and

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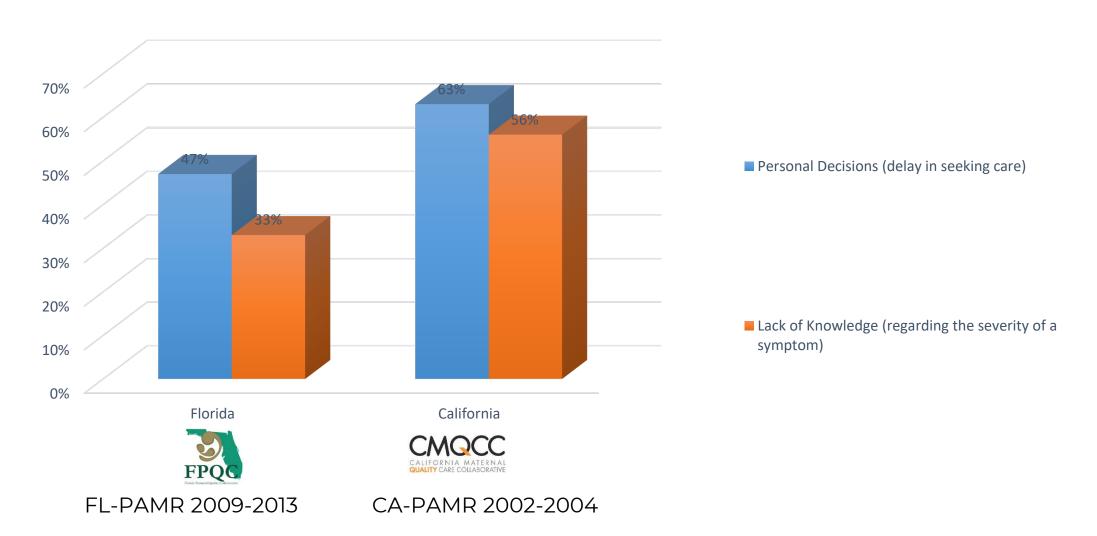
ologists. Obstet Gynecol 2020;135:e237-60.

orbidity and Mortality From Preeclampsia:





Patient factors in maternal mortality from hypertensive disorders



Contributing Factors for Preeclampsia

Factor Level (% of Total Factors)	Most Common Factor Class(es) (% of Level-Specific Classes)	Common Themes
Facility (3.6%)		Inappropriate level of care
Patient/Family (23.2%)	Chronic Disease (30.1%)	Substance use Obesity
	Knowledge (15.4 %)	Lack of knowledge on warning signs and need to seek care
Provider (51.8%)	Knowledge (20.7%)	Delayed diagnosis or treatment Misdiagnosis or ineffective treatment
	Referral (13.8%)	Failure to seek consultation
	Assessment (10.3%)	Failure to screen
	Clinical Skill/Quality of Care (10.3%)	
Systems of Care (17.9%)	Communication	Lack of communication between providers that supports patient management

How Is Preeclampsia Diagnosed?

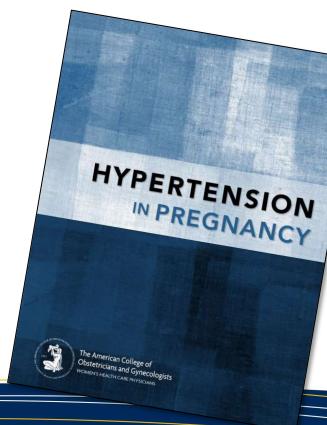
Blood Pressure (BP): 140+/90+ (2 readings 4 hours apart)
 PLUS

• Proteinuria: 300+ mg in 24 hr urine collection (Dipstick: 2+; Protein/creatinine ratio 0.3 or more)

AND/OR

- In association with (new onset):
 - thrombocytopenia (blood clotting)
 - impaired liver function (liver)
 - renal insufficiency (kidneys)
 - pulmonary edema (lungs)
 - new headache unresponsive to Rx (brain)
 - visual disturbances (eyes)







Signs & Symptoms

- Headache that won't go away
- Visual disturbances (seeing spots or auras)
- Epigastric pain (upper right quadrant)
- Nausea/vomiting (2nd half of pregnancy)
- Sudden weight gain (5+ lbs per week)
- Breathlessness (difficulty breathing)
- Swelling of the face or hands
- "just not feeling right"; unexplained "anxiety"



Signs of Preeclampsia Sintomas de la preeclampsia





Stomach pain Dolor de estómago



Headaches Dolores de cabeza



Feeling nauseous; throwing up Náuseas, vómitos



Seeing spots Ver manchas



Swelling in your hands and face

Hinchazón en las manos y en la cara



www.preeclampsia.org



Gaining more than 5 pounds (2.3 kg) in a week

Subir más de 5 libras (2,3 kg) de peso en una semana

www.preeclampsia.org/signs-and-symptoms

OBSTETRICS

Improving patient understanding of preeclamps a randomized controlled trial

What is it?

Whitney B. You, MD, MPH; Michael S. Wolf, PhD, MPH; Stacy C. Bailey, PhD, MPH; William A. Grobman, MD, MBA

OBJECTIVE: We developed a standardized educational tool to inform women. about preedampsia. The objective of this study was to assess whether exposure to this toolled to superior understanding of the syndrome.

STUDY DESIGN: This was a randomized controlled trial in which 120 women were assigned to (1) a newly developed preeclampsia educational tool, (2) a standard pamphlet addressing preeclampsia that had been created by the American College of Obstatricians and Gynecologists, or (3) no additional information. Preeclampsia knowledge was assessed with the use of a previously validated questionnaire.

RESULTS: There were no demographic differences among the groups. Patients who received the tool scored significantly better on the pre-

Cite this article as: You WB, Wolf MS, Balley SC, et al. Improving patient understanding of preeclampsia: 2012:206:431.e1-5.

reeclampsia is a pregnancy-specific in the United States. 12 In the developed condition that affects between 5% and 8% of the pregnant population. The and perinatal events remains markedly

world, the frequency of adverse maternal

eclampsia questionnaire than the of Obstetricians and Gynecolo tion (71%, 63%, 49%, respec standing was evident equally a health literacy (interaction: Po

CONCLUSION: Patients who were appeared to a tional tool demonstrated superior presclampsia-related knowledge, compared with those patients who were exposed to standard materials or no aducation.

Key words: education,

What should you pay attention to?

Why should

you care?

women who are diagnosed with preeclampsia and receive timely and proper surveillance have fewer adverse events

What should you do if you have any of the signs?

Ask Your Doctor or Midwife

Preeclampsia

What Is It?

Preeclampsia is a serious disease related to high blood pressure. It can happen to anyone during the second half of pregnancy, or up to 6 weeks after delivery.

Risks to You

- Seizures
- Stroke
- Organ damage
- Death

Risks to Your Baby

- Premature birth
- Low birth weight
- Death

Signs of Preeclampsia



Stomach pain





Feeling nauseous: throwing up





Swelling in your hands and face



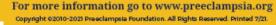
Gaining more than 5 pounds (2.3 kg) in

What Should You Do?

Call your doctor or midwife right away. Finding preeclampsia early is important for you and your baby.









Signs & Symptoms Education

2,553,402

patient education materials distributed increasing knowledge of signs, symptoms and treatments

PREECLAMPSIA FOUNDATION





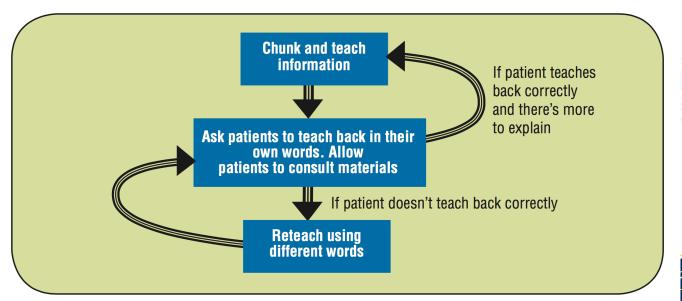


Video available in English and Spanish on YouTube™ or for adding to your website

Key Strategies for Effective Patient Communication

- Use non-medical plain language
- Organize information into 2 or 3 components ("chunk & check")
- **Pictures** speak louder than words
- Do not assume patients' literacy levels or understanding by appearance
- Messages must be repeated to be remembered
- Use multiple teaching strategies for different learning styles
- Use "teach back" to confirm understanding with open-ended Q's

Teach-Back Method





How would you communicate the signs and symptoms of preeclampsia to your client?

Signs Symptoms

How do your clients communicate their symptoms?





Breakout Rooms to Discuss Signs and Symptoms Education

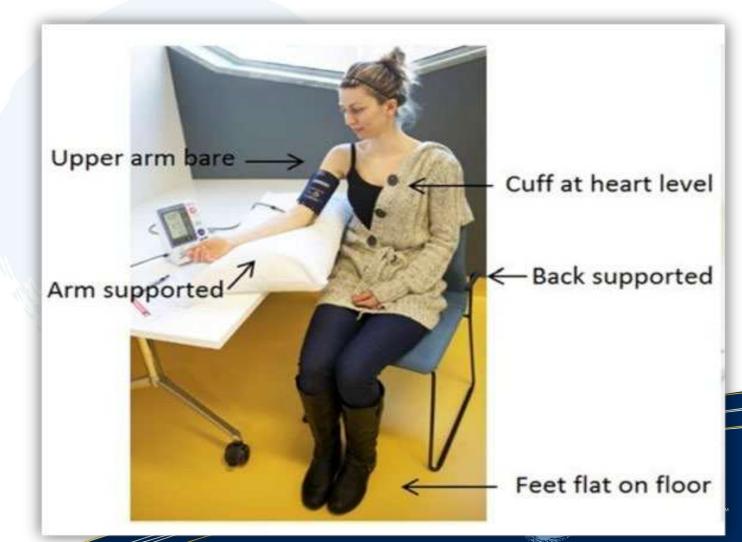






Accurate BP measurement: Proper positioning is essential

- Position the patient semi-fowlers in a bed with the head of the bed elevated 30-40 degrees; arm supported; legs uncrossed
- Or position the patient sitting in a chair with her feet resting on the floor.







Diagnosis & Management





- Recognize symptoms & diagnosis quickly
 - Providers listen to patient and take accurate BP & do bloodwork (labs)
 - Patients know what to recognize and report
- Control severe range blood pressure within 1 hour
 - With antihypertensive medications
- 3. Prevent seizures
 - With magnesium sulfate
- 4. Delivery vs. Expectant
 Management vs. Outpatient
 Monitoring
 - Appropriate timing depending on gestational age and maternal and fetal conditions
- 5. Postpartum surveillance and BP follow up

MAKING SENSE OF PREECLAMPSIA TESTS

DURING PREGNANCY

BLOOD PRESSURE

Your blood pressure is monitored to make sure it isn't too high. High blood pressure is typically defined as blood pressure of 140/90 or greater.

URINE PROTEIN LEVEL

Your urine is tested to make sure your kidneys are healthy. If your urine dipstick test detects protein, you may be asked to collect your urine for 24 hours for additional testing.



WEIGHT

Your weight is tracked to make sure you haven't gained more than 3-5 pounds in a week, which may indicate excess fluid retention.



BLOOD TESTS

Your provider may also run a complete blood count (CBC) with a platelet count, kidney function assessment, and liver enzyme levels (AST and ALT).



CREATININE LEVEL

A blood test for creatinine level measure your kidney function. An elevation over time means that kidney function is impaired.

URIC ACID LEVEL

Changes in your kidney function may also be found by checking your blood for excess uric acid.



AFTER PREGNANCY

BLOOD PRESSURE

Preeclampsia symptoms may continue or appear for the first time after delivery, so your blood pressure should be monitored after delivery and at your follow-up appointments for up to six weeks.



FOLLOW-UP CARE

Women who have had preeclampsia are at higher risk for heart disease, stroke, and other conditions. Talk to your doctor every year at your well-woman visit about your pregnancy health and its potential impact on your:



- HEART HEALTH
- KIDNEY FUNCTION
 MENTAL HEALTH
- RISK FOR AUTOIMMUNE







What About Postpartum Preeclampsia

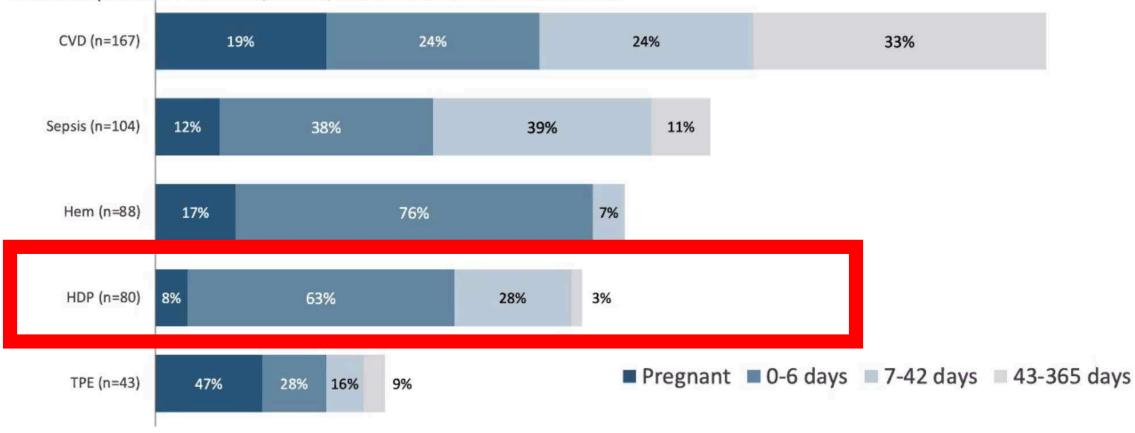
- Delivery is NOT the "cure" treatment (delivery) starts to resolve the process
- Residual hypertension (Who? How long?)
- Delayed onset preeclampsia ("de novo")
 - Some evidence that delayed onset postpartum preeclampsia associated with increased risk of progression to chronic hypertension
- Risk factors and characteristics are the mostly the same between PP PE and antenatal preeclampsia





Pregnancy-Related Deaths by Cause and Timing to Death, California 2008-2016 (N=608)

CA-PMSS Surveillance Report: Pregnancy-Related Deaths in California, 2008-2016. Sacramento: California Department of Public Health, Maternal, Child and Adolescent Health Division. 2021.



Pregnancy-related deaths include deaths within a year of pregnancy from causes related to or aggravated by the pregnancy or its management, as determined by expert committee review.



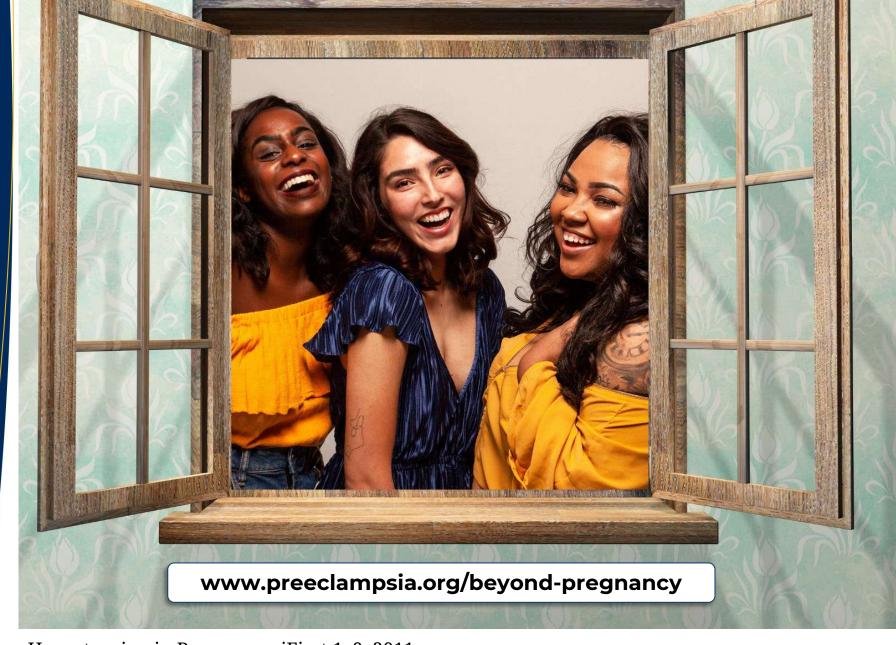
Postpartum Video





Recovery After Preeclampsia: Heart

Pregnancy is a window to future heart health.





Hypertension in Pregnancy, iFirst:1–9, 2011 Obstet Gynecol 2015;125:1287–92

Recovery After Preeclampsia: Heart

2.6 million women in the US today who had preeclampsia will die from heart disease...

2 out of every 3 survivors





Hypertension in Pregnancy, iFirst:1–9, 2011 Obstet Gynecol 2015;125:1287–92 Emotional Recovery After Preeclampsia



Guilt

Depression

Anger

Fractured family

Acute stress disorder

Post-traumatic stress disorder (PTSD)

Furuta M, et al. BMC Pregnancy Childbirth. 2012 Nov 10;12:125. Porcel J, et al. Pregnancy Hypertens. 2013 Oct;3(4):254-60. Stramrood CA, et al. Arch Gynecol Obstet. 2013 Apr;287(4):653-61 Delahauije D, et al. Acta Obstet Gynecol Scand 2013; 92:746-761.





Anxiety

Poll









We Must Address the 3 Deadly D's

Delay

Denial

Dismissal







Breakout Rooms to Share Stories about Delay, Denial and Dismissal (the 3 Deadly D's)



Tips for Being Effectively Heard

- Use your **BRAIN** as you consider options
 - Benefits, Risks, Alternatives, Intuition, Nothing
- CUS to ensure you are heard
 - "I'm **C**oncerned"
 - "I'm <u>U</u>ncomfortable"
 - "I don't feel **S**afe"
- Ask for concerns to be recorded in your medical record



Using BRAIN to make informed pregnancy healthcare choices

Ask your doctor, midwife, or nurse:

- 1. What are the **BENEFITS** of this action?
- 2. What are the RISKS of this action?
- 3. What are my **ALTERNATIVES**?
- 4. What does my
 INTUITION tell me
 about this action?
- 5. What would happen if we did **NOTHING**?





The Preeclampsia Registry

- A "living" database of preeclampsia experiences from over 8,000 women affected by hypertensive disorders of pregnancy – no matter how many years it's been since you had it!
- Patients enter information once and can then participate in multiple research studies.
- All data is confidential and de-identified prior to sharing with researchers.
- Patients can also opt-in to participate in a DNA biobank.



PREECLAN

www.preeclampsia.org/registry

www.cdc.gov/hearher



Learn the urgent maternal warning signs. You could help save her life.

Learn more



What's New

- New materials for healthcare professionals.
- Urgent maternal warning sign poster now available in <u>Hmong</u>
 - **[PDF 538KB]** and
 - Burmese [543KB].
- Hear Her Campaign

Summary of Key Takeaways





Evaluation Poll









Continue the conversation...



Follow us on Twitter, Facebook, Instagram Visit us at www.preeclampsia.org
Email us at info@preeclampsia.org





Wykinia Jones

HEALTHY START TA & SUPPORT CENTER (TASC)





Satisfaction Survey

YOUR FEEDBACK IS EXTREMELY VALUABLE AND WILL HELP ENSURE OUR OFFERINGS MEET YOUR SUPPORT NEEDS!







