HEART DISEASE IN PREGNANCY:

CARDIAC HEALTH

Northwestern University Center for Health Equity Transformation





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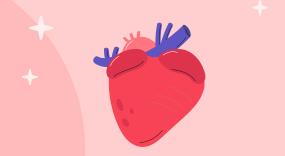
What we will learn today!

WHAT IS CARDIAC DISEASE?

2 CHANGES TO YOUR HEART DURING PREGNANCY

3 SYMPTOMS

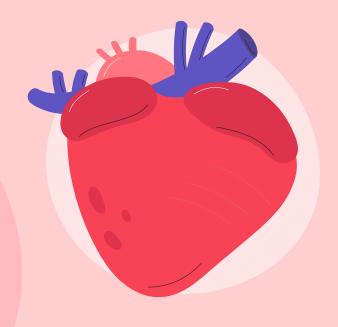
CARING FOR YOUR HEART



1

WHAT IS CARDIAC DISEASE?

And how does it connect to pregnancy?



Quick Definition

Cardiac (heart) disease in pregnancy refers to problems with your heart that happen while you are pregnant.

THERE ARE 2 MAIN TYPES:

A

Pre-existing Heart conditions

These are heart diseases that you had before becoming pregnant. During pregnancy, they can affect you differently.

B

Heart conditions that Develop During Pregnancy

These are conditions that you did not have before pregnancy. Some conditions are harmless, but others may be dangerous.



2

WHAT ARE SOME CHANGES TO THE HEART IN PREGNANCY?



changes to your heart

Your body changes during pregnancy to make sure your growing baby receives enough oxygen and nutrients. The following changes are normal during pregnancy:

- (1) More blood flows through your body. The amount of blood increases by about 40-45%.
- (2) Faster heart rate: It is normal for your heart rate to speed up by 10-20 beats per minute. Your heart rate is the highest by your third trimester.

Heart Problems That could Develop

Pregnancy can lead to many different heart problems even if you have no previous history of cardiac disease.

High blood pressure (hypertension) is becoming more common in pregnancy.

Gestational hypertension, preeclampsia, chronic hypertension, chronic hypertension with superimposed preeclampsia are a few heart problems that could develop in pregnancy.

HIGH BLOOD Pressure DIAGNOSES INCLUDE:

- **Gestational hypertension**: High blood pressure (of at least 140/90 mmHG) that begins <u>after</u> week 20 of pregnancy.
- <u>Preeclampsia</u>: High blood pressure that begins after week 20. It occurs along with <u>protein in your urine (pee)</u> or evidence of organ damage. Eclampsia refers to preeclampsia that occurs along with <u>seizures</u> during pregnancy or within 10 days of giving birth.
- Chronic hypertension: High blood pressure that begins <u>before</u> week 20 or before you become pregnant.
- Chronic hypertension with superimposed preeclampsia: Chronic hypertension along with protein in your urine or evidence of organ damage.

HIGHER RISK FOR PREGNANCYrelated Heart Problems

- Are 40 or older
- Are African American, American Indian, or Alaska Native
- Are overweight or have obesity
- Have existing heart problems
- Have existing health conditions such as diabetes, high blood pressure, blood clotting disorders, sleep apnea, anemia, or polycystic ovary syndrome (PCOS)
- Get little physical activity
- Use opioids, other drugs, alcohol, or smoke

Ask your doctor about these risk factors and how they may affect your pregnancy!

3

WHAT ARE SOME SYMPTOMS TO LOOK OUT FOR?





COMMON SYMPTOMS IN PREGNANCY



Extremelytired

LIGHTHEADED

Dizzy

SHORTNESS OF Breath

Palpitations

Sensation of a fast heartbeat



SYMPTOMS THAT ARE NOT NORMAL IN PREGNANCY

BLUTTED

Fainting

CHEST PAIN

Racing Heart rate Palpitations
That Last For
more than
30 seconds

IF YOU HAVE ANY CHEST PAIN OR DISCOMFORT, CALL 911 OR YOUR DOCTOR RIGHT AWAY!

VIDEO

LET'S LEARN A LITTLE BIT MORE!

The surprising effects of pregnancy https://www.youtube.com/watch?v=F_ssj7-8rYg

TED-Ed

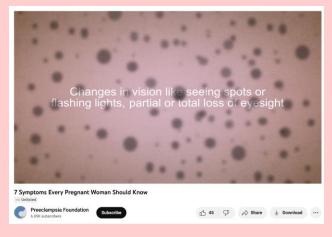


VIDEO

LET'S LEARN A LITTLE BIT MORE!

7 Symptoms Every Pregnant Woman Should Know https://www.youtube.com/watch?v=dqMXyDLiUqg&ab_channel=PreeclampsiaFoundation

Preeclampsia Foundation



TELL YOUR PROVIDER ABOUT YOUR SYMPTOMS

TAKE NOTES ON YOUR SYMPTOMS

1. SYMPTOM

2. DATE

3. TIME

4. **SEVERITY 1-10**

5. WHAT YOU WERE DOING

LET'S PRACTICE!

One person acts as the doctor and the other person acts as the pregnant person!

Urgent Maternal Warning Signs

If you experience any of these warning signs, get medical care immediately.

- Severe headache that won't go away or gets worse over time
- · Dizziness or fainting
- · Thoughts about harming yourself or your baby
- · Changes in your vision
- Fever of 100.4° F or higher
- · Extreme swelling of your hands or face
- Trouble breathing
- · Chest pain or fast-beating heart
- Severe nausea and throwing up (not like morning sickness)
- · Severe belly pain that doesn't go away
- Baby's movement stopping or slowing down during pregnancy
- Vaginal bleeding or fluid leaking during pregnancy
- Heavy vaginal bleeding or leaking fluid that smells bad after pregnancy
- · Swelling, redness or pain of your leg
- Overwhelming tiredness

This list is not meant to cover every symptom you might have. If you feel like something just isn't right, talk to your healthcare provider

Use This Guide to Help Start the Conversation:

- Thank you for seeing me.

 I am/was recently pregnant. The date of my last period/delivery was

 and I'm having serious concerns about my health that I'd like to talk to you about.
- I have been having _____ (symptoms) that feel like ____ (describe in detail) and have been lasting _____ (number of hours/days)
- · I know my body and this doesn't feel normal.

Sample questions to ask:

- · What could these symptoms mean?
- Is there a test I can have to rule out a serious problem?
- At what point should I consider going to the emergency room or calling 911?

Notes:			





4

SELF-CARE TIPS AND BRAINSTORM/PAIR/SHARE ACTIVITY





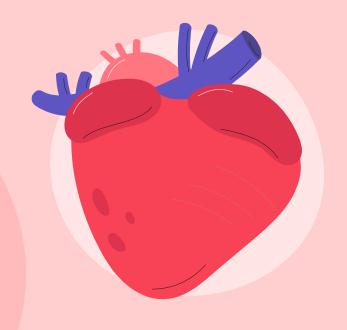
self-care tips

- Attend your medical appointments!
- Avoid excess weight gain. Ask your doctor how much weight is safe to gain during pregnancy.
- Avoid stress as much as possible. Prenatal yoga classes may be helpful or find relaxation strategies that work for you.
- Eat a heart-healthy diet, and limit sugar, sodium, saturated and trans fat.
- Exercise safely. Ask your doctor which types of exercise are safe for you.

Brainstorm & Share

 Write down 2-3 relaxation tips that have worked for you.

We will go around and share!



LET'S TALK!

https://my.clevelandclinic.org/health/diseases/17068-heart-disease-pregnancy

https://www.nhlbi.nih.gov/health-topics/education-and-awareness/heart-truth/listen-to-your-heart/heart-health-and-pregnancy

FACTS SHEETS

Preeclampsia: https://www.thewomens.org.au/images/uploads/fact-sheets/Preeclampsia-2018.pdf

NHLBI Heart Health: https://www.nhlbi.nih.gov/resources/pregnancy-and-your-heart-health

Exercise:

https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.ksr.ualberta.ca%2Fexerciseandpregnancy%2Fresources.php&psig=AOvVaw3liE9p2omM91Rl8-

Nutritional Advise: https://www.health.gov.au/sites/default/files/documents/2021/06/nutrition-advice-during-pregnancy.pdf

Discussion Questions:

 Have any of you experienced any of these cardiac problems during your past pregnancies? If you feel comfortable, feel free to use this time to talk about them with the group! This research is supported by National Institutes of Health. (Grant R01 MD016280). Special thanks to our collaborators John H. Stroger, Jr. Hospital, Woman's. Hospital, and University Hospital.