

Higher weight gain in first-time pregnant moms could boost chance for dangerous condition

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Credit: American Heart Association

Higher weight gain during pregnancy increases the risk of preeclampsia in women giving birth for the first time, new research shows.

The study published Monday explored how [weight](#) affects [preeclampsia](#),

a serious pregnancy condition related to gestational high blood pressure. Ten million [women](#) around the world develop preeclampsia each year, resulting in the death of 76,000 pregnant women and an estimated 500,000 babies, according to the Preeclampsia Foundation.

Obesity prior to pregnancy already is a well-identified risk factor for preeclampsia. But previous research found conflicting results on how the condition is affected by high [weight gain](#) in the first 20 weeks of pregnancy, said study author Dr. Jennifer Hutcheon, an associate professor at the University of British Columbia in Vancouver.

"Our study found that high pregnancy weight gain in the second half of pregnancy increases a woman's chance of developing preeclampsia and this risk is most pronounced in women who were leaner at the start of their pregnancy compared with women who were overweight or obese at the start of pregnancy," Hutcheon said.

The new study, in the American Heart Association's journal *Hypertension*, looked at more than 62,000 Swedish women who had never given birth of which 4.4 percent developed preeclampsia and tracked how much weight the women had gained during their pregnancy.

According to other research, obesity increases the overall risk of preeclampsia by approximately 2- to 3-fold, and that risk progressively increases with increasing BMI, even within the normal range.

Preeclampsia can cause stillbirths and mothers to suffer seizures, stroke, kidney failure, and other serious problems.

The new study also found that high weight gain was more strongly linked with preeclampsia developing after 37 weeks of pregnancy than with more severe forms of preeclampsia that develop earlier in pregnancy, Hutcheon said. "This finding may provide clues as to the biological

mechanisms causing these two subtypes of preeclampsia."

Dr. Haywood Brown, outgoing president of The American College of Obstetricians and Gynecologists, praised the study as "powerful information that's really going to add something to our literature and help us counsel people going into pregnancy. It's strong evidence that weight gain is associated with preeclampsia, and staying within the guidelines of weight gain is very important."

Brown, an OB/GYN who was not involved in the study, said the research was limited by being conducted in Sweden, a country with a predominately white population.

"So, the generalization to African Americans and Hispanics might not necessarily be there," Brown said. "We need to duplicate this study in the U.S., in more diverse populations, and also because this is a country where about 60 percent of the population is overweight and obese."

Brown said the study underscores the importance of women and their doctors paying close attention to how much weight is gained during [pregnancy](#).

For women who are pregnant with one baby, the National Academy of Medicine recommends:

- Underweight women with a body mass index of less than 18.5, gain 28-40 pounds
- Normal weight women with BMI 18.5 to 24.9, gain 25-35 pounds
- Overweight women with BMI 25 to 29.9, gain 15-25 pounds
- Obese women with BMI of 30 or more, gain 11-20 pounds.

"We've kind of gotten away from counseling on weight [gain](#), and we need to get back to that," said Brown. "We need to have a conversation

with patients when they come in for that first prenatal visit and counsel them to stick to the recommendations. The message here is we need to go into preventative mode."

More information: Jennifer A. Hutcheon et al. Pregnancy Weight Gain Before Diagnosis and Risk of Preeclampsia, *Hypertension* (2018). DOI: [10.1161/HYPERTENSIONAHA.118.10999](https://doi.org/10.1161/HYPERTENSIONAHA.118.10999)

Provided by American Heart Association

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