

A history of kidney stones may contribute to certain complications during pregnancy

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Results from a new study suggest that a history of kidney stones may indicate an increased risk for metabolic and hypertensive complications during pregnancy and add support to a growing body of research linking

kidney stones with systemic diseases such as diabetes and cardiovascular disease. The study will be presented at ASN Kidney Week 2017 October 31-November 5 at the Ernest N. Morial Convention Center in New Orleans, LA.

Kidney stones have been linked with an increased risk of developing hypertension, diabetes, and the metabolic syndrome. Jessica Tangren, MD (Massachusetts General Hospital/Brigham and Women's Hospital) and her colleagues looked to see if having [kidney](#) stones before pregnancy affects a woman's risk of developing metabolic and hypertensive complications in pregnancy.

The study included women who delivered infants at the Massachusetts General Hospital from 2006 to 2016. Pregnancy outcomes in 174 women with documented stones were compared with 1330 women without stones. Women with pre-existing chronic kidney disease, hypertension, and diabetes were excluded.

Maximum systolic blood pressure in pregnancy was increased in stone formers vs. controls despite similar first trimester blood pressure. Gestational diabetes and gestational hypertension were more common in stone formers (18% vs. 6% and 19% vs. 13%). After adjustments, stones were associated with increased risk of preterm delivery, [gestational diabetes](#), and preeclampsia.

"The risk of developing a hypertensive complication in pregnancy was especially high in women who had [kidney stones](#) and were overweight or obese at the start of pregnancy," said Dr. Tangren. "We did not identify increased risk for fetal complications such as [intrauterine growth restriction](#) or need for [neonatal intensive care](#) amongst stone formers." She noted that due to the increasing incidence of stone disease in young women, further research aimed at identifying modifiable risk factors and novel treatment and prevention strategies should be encouraged.

Provided by American Society of Nephrology

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