

## First-trimester biomarker may help identify early GDM risk

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(HealthDay)—Glycosylated fibronectin may be able to identify pregnant women during the first trimester at risk for developing gestational diabetes mellitus (GDM), according to a study published online Aug. 5 in *Obstetrics & Gynecology*.

Juha P. Rasanen, M.D., Ph.D., from the Oregon Health and Science University in Portland, and colleagues measured serum concentrations of glycosylated (Sambucus nigra lectin-reactive) fibronectin, adiponectin, sex hormone-binding globulin, placental lactogen, and high-sensitivity Creactive protein (CRP) in 90 pregnant women (who subsequently developed GDM) at 5 to 13 weeks of gestation and in 92 control participants.



The researchers observed a significant association between GDM and <u>first-trimester</u> serum concentrations of glycosylated fibronectin, adiponectin, high-sensitivity CRP, and placental lactogen. Glycosylated fibronectin remained independently associated with GDM after adjusting for maternal factors and other markers. Above a threshold of 120 mg/L, glycosylated fibronectin levels correctly identified 57 GDM case group participants, with a positive predictive value of 63 percent and a negative predictive value of 95 percent, at a population prevalence of 12 percent.

"First-trimester glycosylated <u>fibronectin</u> is a potential pregnancy-specific biomarker for early identification of women at risk for GDM," the authors write.

Several authors disclosed financial ties to DiabetOmics, which funded the study.

**More information:** Abstract

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