

# Only severe preeclampsia linked to anti-beta-2GP1 immunoglobulin G

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(HealthDay)—Severe preeclampsia (S-PEecl), but not non-severe

preeclampsia (NS-PEecl), is associated with anti $\beta$ 2GP1 immunoglobulin (Ig)G, according to a study published online Jan. 18 in the *Journal of Thrombosis and Haemostasis*.

Tess Marchetti, from Geneva University Hospitals in Switzerland, and colleagues examined the prevalence of antiphospholipid [antibodies](#) (aPL) in women with previous preeclampsia. Plasma samples were collected six months after delivery for 195 control women, 199 NS-PEecl, and 143 S-PEecl patients. The authors tested plasma for lupus anticoagulant, anticardiolipin (aCL), and anti $\beta$ 2GP1 antibodies, as well as antibodies against phosphatidylserine/prothrombin complex (aPS/PT) and domain I of the  $\beta$ 2GP1.

The researchers found that after adjustment for confounding variables, there were no significant associations for the NS-PEecl group compared with the control group. Anti $\beta$ 2GP1 IgG was associated with the S-PEecl group (odds ratio, 16.91), along with age, obesity, smoking, and multiparity. In the three groups there were correlations for anti $\beta$ 2GP1-domain I IgG with aCL, anti $\beta$ 2GP1, and aPS/PT IgG. Also in the three groups, aPS/PT IgG correlated with aCL IgG, and aPS/PT IgM correlated with aCL and anti $\beta$ 2GP1 IgM.

"S-PEecl is a distinct entity from NS-PEecl and is mainly associated with the presence of anti $\beta$ 2GP1 IgG," the authors write. "Anti $\beta$ 2GP1 domain I correlate with other aPL IgG tests, and aPS/PT may be promising in patients in which lupus anticoagulant tests cannot be interpreted."

**More information:** [Abstract](#)  
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