

# Meningioma and pregnancy

**Pregnancy** has been associated with diagnosis or growth of **meningiomas** in several case reports, which has led to the hypothesis that pregnancy may be a **meningioma risk factors**. The aim of a study of Pettersson-Segerlind et al. was to test this hypothesis in a large population-based cohort study. Women born in Sweden 1958-2000 (N = 2,204,126) were identified and matched with the Medical Birth Register and the Cancer Register. The expected number of meningioma cases and risk ratios were calculated for parous and nulliparous women and compared to the observed number of cases. Compared to parous women, meningiomas were more common among nulliparous (SIR = 1.73; 95% CI 1.52-1.95). The number of meningioma cases detected during pregnancy was lower than the expected (SIR = 0.40; 95% CI 0.20-0.72). Moreover, no increased risk was found in the first-year post-partum (SIR = 1.04; 95% CI 0.74-1.41). Contrary to our hypothesis, there was no increased risk for diagnosing a meningioma during pregnancy or 1-year post-partum. A lower detection rate during pregnancy, may reflect under-utilization of diagnostic procedures, but the actual number of meningiomas was homogenously lower among parous than nulliparous women throughout the study period, indicating that pregnancy is not a risk factor for meningioma <sup>1)</sup>.

<sup>1)</sup>

Pettersson-Segerlind J, Mathiesen T, Elmi-Terander A, Edström E, Talbäck M, Feychting M, Tettamanti G. The risk of developing a meningioma during and after pregnancy. Sci Rep. 2021 Apr 28;11(1):9153. doi: 10.1038/s41598-021-88742-2. PMID: 33911184.

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