

Forskningsprojekt 2020

Titel: Maternal outcomes and placental alterations after alcohol and drug exposure during pregnancy

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Sammanfattning:

Prenatal alcohol exposure is a global health problem. Heavy alcohol consumption during pregnancy may result in conditions such as fetal alcohol syndrome, but studies regarding maternal outcomes after alcohol and drug exposure during pregnancy are scarce. Methodological concerns include retrospective designs and restricted study populations. There are also a number of confounding factors which include socioeconomic circumstances, nutritional factors, smoking and illicit substance abuse. Further, the direct effect of alcohol and drug exposure on the placental tissue and placental gene expression is not fully elucidated.

The aim is to explore how alcohol and drug exposure during pregnancy affects maternal, labour and placental outcomes

The project is divided in three parts i) a Swedish population register based study using data retrieved from the Swedish Pregnancy Register (SPR), ii) a prospective cohort study using data from The Safe Passage Study (SPS) and analyze clinical outcomes and iii) an explorative study of placental tissue collected by the SPS where placental analysis will be conducted in Uppsala. The Safe Passage Study (SPS) collected detailed information on maternal outcomes as well as placental samples from over 6,000 pregnancies.

We hope to answer complex and important questions about the inter-relationships between alcohol and drug exposure and the association with maternal and placental outcomes.