**Lay term description**

The recent widespread promotion and public acceptance of cannabidiol (CBD) as a “safe” and “natural” medication has encouraged pregnant or nursing mothers to use CBD as a treatment for a variety of symptoms, despite a warning from the US Food & Drug Administration and others advising against the consumption of CBD by pregnant women. Few studies have addressed the significant and timely question of how CBD impacts the developing fetal brain. The present study will contribute new insights into the long-term consequences of prenatal CBD exposure on emotional and cognitive function in males and females, and the mechanisms underlying these effects, that will provide novel strategies for interventions that will improve memory and emotional deficits.