Foetal iron exposure and cardiorespiratory health

Propositions

1. During pregnancy, women with Turkish, Moroccan, and Surinamese-Hindustan migration backgrounds have a high risk of iron deficiency as compared to Dutch women while the risk of iron overload is highest in the Surinamese-Creole group (this thesis).

2. Meta-analysis of previous literature shows that higher maternal ferritin during pregnancy is only associated with higher child's soluble transferrin receptor concentrations, not other iron status measures after birth (this thesis).

3. Maternal ferritin and transferrin saturation during pregnancy tend to show a U-shaped association with the overall risk of upper, not lower, respiratory tract infections until age 10 years of the child (this thesis)

4. Maternal lower ferritin and higher transferrin levels during pregnancy, indicating lower iron status, are associated with child body fat accumulation and distribution but not with cardiometabolic risk factors at the age of 10 years (this thesis).

5. Maternal low and high haemoglobin levels during pregnancy are associated with altered cardiac diastolic function in boys, but not in girls (this thesis).

6. Cardiac shape could predict heart disease. (Vukadinovic et al, Med, 2023)

7. Being both preterm and SGA is most predictive in identifying vulnerability to neonatal mortality risk. (Suárez-Idueta, BJOG, 2023)

8. The importance of improving the quality of the data may be critical to detect and replicate relationships rather than relying solely on a large sample size. (Rajput et al, BMC Bioinformatics 2023)

9. The disproportionate impact of COVID-19 pandemic on historically disadvantaged groups highlight the critical need to implement targeted relief efforts and long-term policy reforms to challenge the perennial and unequal impact of disasters. (Perry et al, Proceedings of the National Academy of Sciences 2021)

10. The formulation of a problem is often more essential than its solution, which may be merely a matter of mathematical or experimental skill. (Albert Einstein, The evolution of Physics 1938)

11. Science is not only a disciple of reason but, also, one of romance and passion. (Stephen Hawking)