A multi-center birth cohort study in Korea : MOthers and Children's Environmental Health (MOCEH) study

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Ewha Womans University, Seoul KOREA Eun-Hee Ha

Se MOCEH means "Mother's Body" in Korean.

### cope of research

- In Korea, the National Environmental Health Action Plan (NEHAP, 2006) outlines strategies for eliminating environmental health hazards and reducing their adverse effects on pregnant women and their children.
- In 2006, the Mothers and Children's Environmental Health (MOCEH) study began as an initiative of the NEHAP.



## **Objectives**

- To collect information on environmental exposure during pregnancy and childhood and
- examine the relationship between exposure to environmental pollutants and growth, development and disease in children.
- To provide scientific information for improvement of the health, development, and well-being of children in the future.









### **Protocol development**

 All aspects of the study design were finalized after taking the core hypotheses, financial resources, utility for future investigations, and ethics of the study into consideration.









# ossible evidences from MOCEH study

✓ Air pollution and pregnancy outcomes

 Heavy metal and pregnancy outcomes and infant's development

 PAH and oxidative stress and pregnancy outcomes

✓ Endocrine Disruptors and pregnancy outcomes and neurodevelopment

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# Future PERSPECTIVES We expect that this study will • provide new information obtained through academic research to support the hypothesis that the gestational environment affects the development of diseases during childhood and adulthood. • establish of a national policy for improving the health of pregnant women and their children.

- The MOCEH study team would like to engage in collaborative research and welcome future collaborative opportunities.
- Access to the data is subject to restrictions outlined in the study protocols, and inquiries can be made to the study director or lead researchers with contact details listed on the study website (<u>http://www.moceh.co.kr</u>).



