CHHS
CLINICAL & RESEARCH PARTNERS

COLLABORATING SCIENTIFIC INSTITUTIONS
Participating hospitals will enroll 2,000 mother-infant pairs (MIPs) over 6 years
Multiple urine samples will be collected from each MIP
Urine samples will be analyzed for levels of target herbicides

HOSPITALS
Franciscan Health Indianapolis
Indiana

Gundersen Health System
La Crosse, WI

Additional Hospitals
TBD

LABS
Centers for Disease Control
Atlanta, GA

Others
TBD

RESEARCH GROUPS
Ramazzini Institute
Bologna, Italy

George Washington University
Washington, D.C.

Centers for Disease Control
Atlanta, GA

Others
TBD

SPONSORED RESEARCH
Research priorities recommended by CHHS Science Advisory Board
Management Team provides final review and approval
Fiscal management by --

ANALYTICAL METHODS
Herbicide Levels in Amniotic Fluid
Dr. John Fagan, Health Research Institute, Fairfield, IA

Analysis of Historic Urine Samples
Dr. Jill Reiter, Indiana University School of Medicine

Epigenetic Markers of Herbicide Exposure
Dr. Robin Mesnage & Dr. Michael Antoniou, King’s College, London

TARGET HERBICIDES = Glyphosate, Dicamba, & 2,4-D

Biomonitoring

Epigenetics

Biomonitoring

Herbicide Biomonitoring Methods Ring Trial
Health Research Institute
Ramazzini Institute
Others TBD

Bologna, Italy

Indiana University
Indianapolis, IN

The Heartland Study

Updated 7/4/2019