



NCS Research Day Abstract Submission

Title:

Integrating Salivary Analytes and Biomarkers into the National Children's Study

Names and affiliations:

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Description of research:

The directive for formative research project 19 is to conduct comparative bench and field studies to evaluate alternative saliva collection methods; recommend best shipping and handling practices; validate assays in saliva; and document whether statistical variation in select saliva measurements can be meaningfully interpreted within the context of the National Children's Study (NCS).

We will report our progress to date on (A) the validation of assays for environmental chemicals, hormones, peptides, DNA, and markers of inflammation in oral fluid, (b) the comparison of absorbent materials that will be optimized and employed in the field to obtain saliva from NCS participants (infants, children, and mothers), (C) alternative approaches to confirm and monitor participant compliance with saliva sampling schedules when specimens are self collected in the home, and (D) effects of transportation conditions (packing, temperature, and transit time) on salivary analytes.