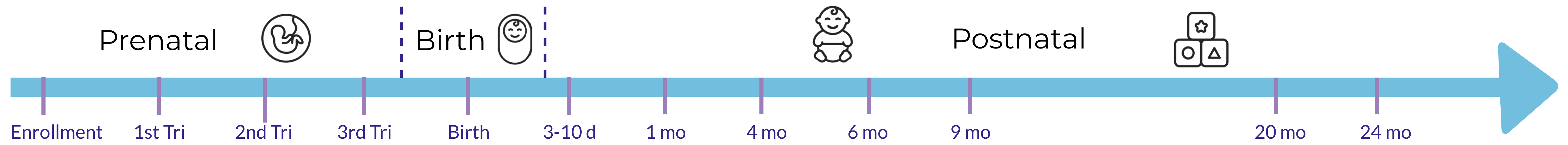


# REACH Study Timeline

Research Enterprise To Advance Children's Health



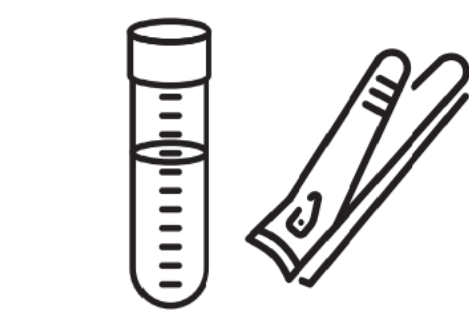
## Data and Sample Collection

### Surveys



Online surveys completed weekly throughout the study

### Prenatal



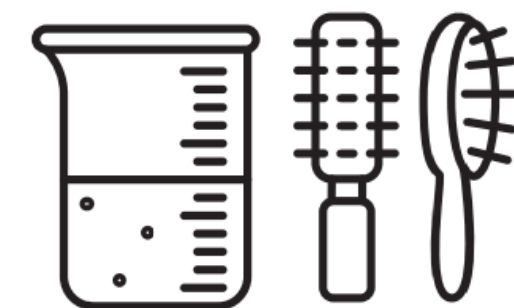
#### 2<sup>nd</sup> Trimester

Blood, Toenails

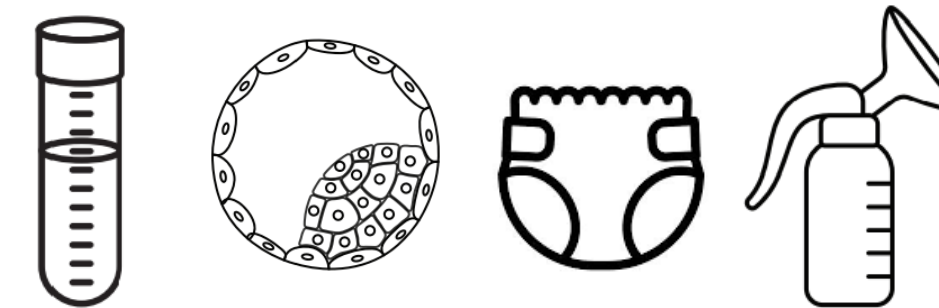


#### 3<sup>rd</sup> Trimester

Blood, Vaginal Swab, Stool, Urine, Hair



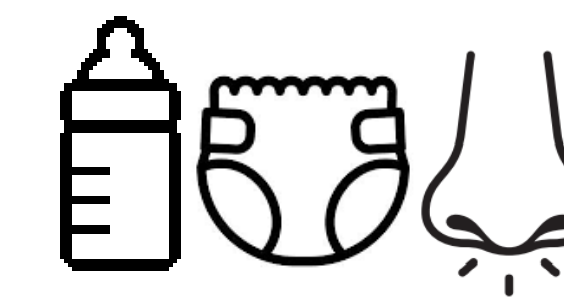
### Birth



#### Birth

Cord Blood, Placenta, Meconium (first stool), Colostrum (first collection of breastmilk)

### Postnatal



#### 3-10 days

Breastmilk or Formula, Stooled Diaper, Nasal Swab



#### 1 Month

Breastmilk or Formula, Stooled Diaper, Nasal Swab, Urine, Toenails



## Postnatal



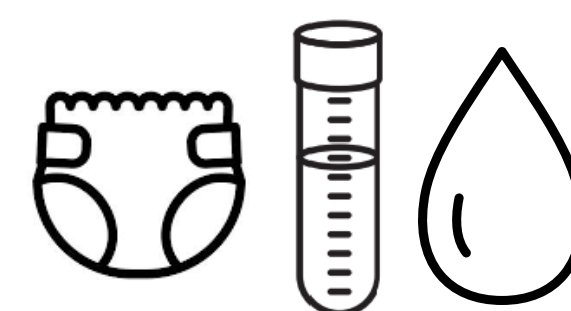
#### 4 Months

Stooled Diaper, Nasal Swab, Urine, Toenails



#### 6 Months

Stooled Diaper, Nasal Swab, Urine, Toenails, Dust, Hair



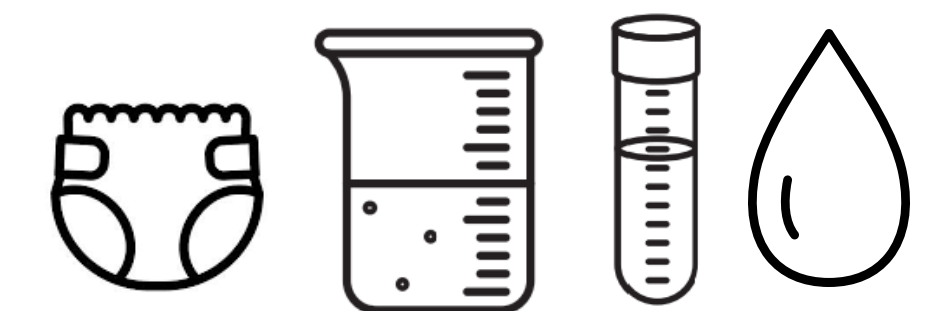
#### 9 Months

Stooled Diaper, Blood, TEWL



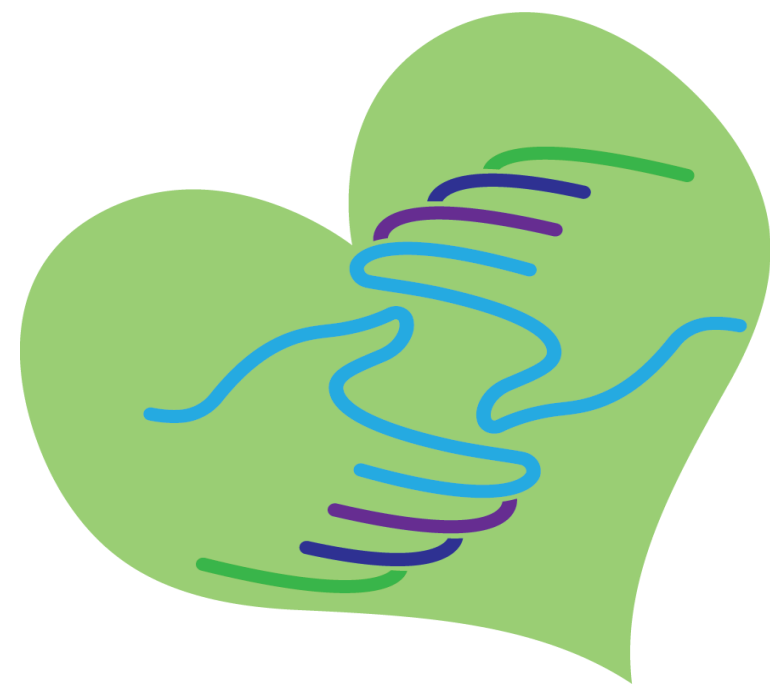
#### 12 Months

Stooled Diaper, Urine, Toenails



#### 24 Months

Stooled Diaper, Urine, Blood, TEWL



# The Purpose of the Samples



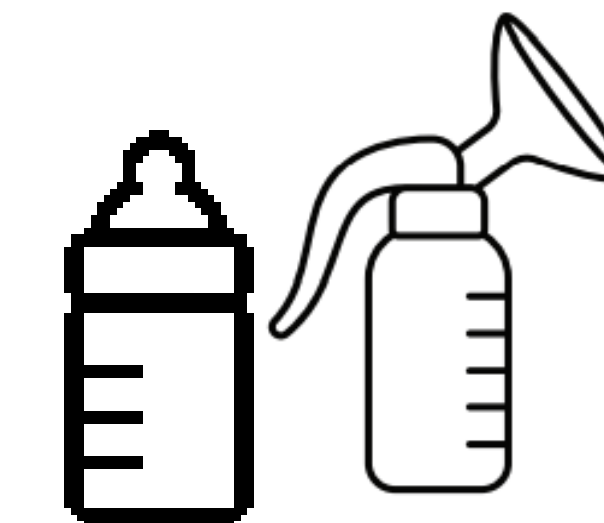
## **Surveys**

Surveys gather lifestyle and background information.



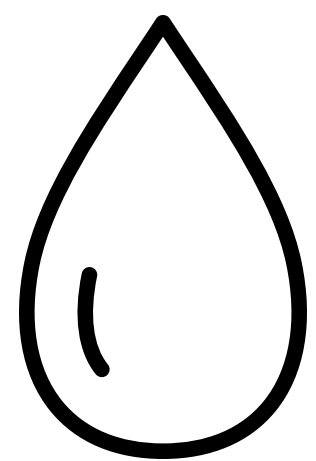
## **Nasal Swab, Vaginal Swab, and Stool**

These self-collected samples allow us to measure your microbiome or the healthy bacteria you naturally produce.



## **Breastmilk and Formula**

Breastmilk and formula contains lots of nutrients. We want to measure the proteins, fats, vitamins, and carbohydrates to find out how they help your baby grow and develop.



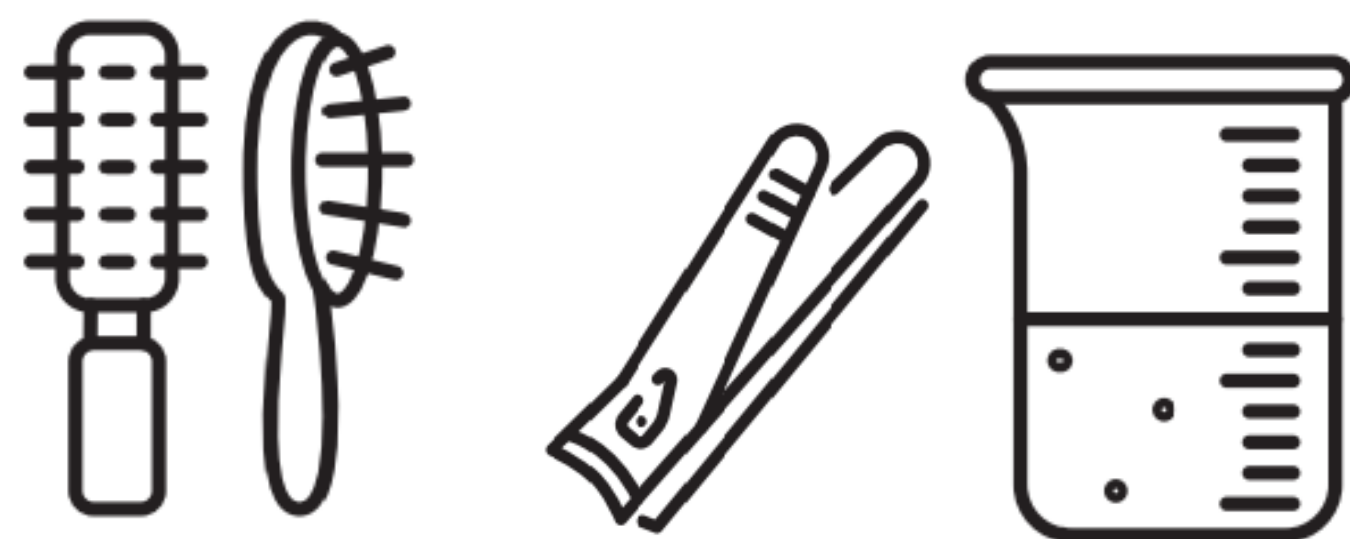
## **Transepidermal Water Loss (TEWL) Test**

Transepidermal Water Loss (TEWL) Test measures child's skin moisture and hydration.



## **Blood**

Blood is collected to gather information regarding allergies, food sensitivity, and environmental exposures.



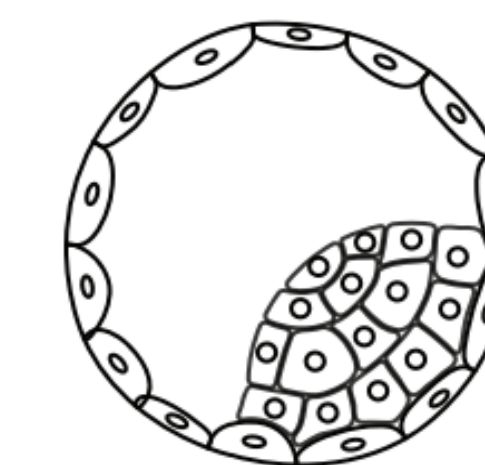
## **Hair, Toenails, and Urine**

Hair, toenail, and urine samples can show us information like metal and other environmental chemicals exposures.



## **Dust**

Dust allows us to measure the normal particles and bacteria found in homes.



## **Placenta**

Placenta is like the diary of pregnancy that helps understand the health of mother and child.

The information we learn from this study will help advance the health of moms and babies for years to come!

If you have any questions or concerns please reach us at:

 **(313) 876-6433** or  **REACH@hfhs.org**