

Interview I: Pre-Deployment Family Interview Questions

General Introductory Questions

1. How important is air quality in your life? Is it something that you have given much thought to? If so, describe.
2. Do you know of (or suspect) any activities or conditions that trigger respiratory problems for you or your child?

User awareness of air quality and pollutants

1. Do you regularly check air quality?
 - a. Do you or other family members check publically available air quality information resources (government air quality websites, local air quality index, phone apps, etc.)?
 - i. Describe circumstances that would motivate you to check the air quality.
 - ii. What information do you use (ratings, scientific measurements, warning levels, etc.)? How do you use this information?
 - iii. Have you ever modified an activity or taken precautionary measures as a result of air quality concerns?

IF deployment has already occurred:

 1. Other than these sensors, do you have any other devices or strategies for monitoring the air quality in or around your home?

IF deployment has not yet occurred:

Do you measure air quality in or around your home? If so, what devices or strategies do you use?
2. How would you characterize the air quality in different parts of your home?
 - a. What are the causes of these variations?
3. What do you think are the largest contributors to indoor air pollution in your home?
4. Are there any behaviors/circumstances/activities that you think these air quality monitors would help you learn more about?
5. How does air quality outside compare to the air quality inside your house? Is one always better or worse than the other?

User privacy, implications of data collection

1. Do you have privacy concerns about the collection of your air quality data
 - a. as it relates to your personal, family, or residential privacy?
2. Let's think about how your air quality sensor data might be shared with others...
 - a. Do you consider information about the air quality in your home to be private information?
 - i. How comfortable are you, about sharing this information with clinical program researchers at other sites (including the NIH)?

- ii. Are you comfortable sharing this information with researchers who are not part of the clinical program?
- b. How comfortable would you be, if we asked you to share your air quality information with other families that are part of the medical study?
- c. Would it be okay if your air quality information was posted publicly online?
Probe - we assume they want names removed - but what about address, or zip code (or something like a geocode - latitude/longitude) - is there any part of the location they would consider acceptable to share publicly?
- d. Would it be OK if your air quality data were visible to visitors in your home?