1. What signs or symptoms should I look for?

There is evidence linking certain PFAS (e.g., PFOA and PFOS) to adverse health effects in humans, with more evidence for some effects than for others.

Potential health effects include:

- Certain types of cancers
- High cholesterol
- Impaired hormonal and immune systems
- Altered kidney and liver function
- Impacts on pregnancy and the development of infants and fetuses, including preeclampsia, low birth weight, and preterm birth

For more information, see the University of Michigan Lifestage Environmental Exposures and Disease Center’s [infographic](#) presenting some of the potential PFAS health effects.

2. How can I link a patient’s illness to PFAS exposure? And how do I treat it?

Almost all people in the U.S. have a measurable amount of PFAS in their blood.

There are currently no medical interventions that will remove PFAS from the human body, but identifying sources of PFAS and preventing known exposures may help to lower risks.

Since multiple environmental and biological factors can contribute to these health effects, there is no way to know if PFAS exposure is the sole cause of a given illness. It is important to consider a patient’s medical history and results from routine health screenings when making a diagnosis. Blood tests will show the level of PFAS in the blood; however, this may not necessarily be predictive of future health concerns.

Almost all people in the U.S. have a measurable amount of PFAS in their blood. The health impacts associated with PFAS may have different causes, so it is difficult to link current health issues directly to PFAS exposure.

There are currently no medical interventions that will remove PFAS from the human body, but identifying sources of PFAS and preventing known exposures may help to lower risks. You should investigate other causes...
3. How do I test for PFAS exposure?

There is currently no established PFAS blood level that clearly links PFAS to health problems.

PFAS exposure can be determined through blood testing. However, it is important for patients to know that blood testing does not provide a clinical diagnosis or definitively say if a patient's health has been or will be affected. Test results indicate the level of PFAS in patients' blood at the time of testing, which can then be compared to the relative blood levels of other groups.

If patients request biomonitoring, make sure they understand what the results mean. There is currently no established PFAS blood level that clearly links PFAS to health problems. In select areas where a definitive source of PFAS has been identified, biomonitoring may be offered to certain communities by the state. If you are in one of these areas, please check your state health or environmental agency website or contact the agencies or other professionals for more details.

4. How can I address patients’ concerns about uncertainty?

In addition to addressing knowledge gaps, it is important to keep in mind that patients may also need support with coping and accepting uncertainty, both emotional and physical (e.g., using an alternate water source when it is required, exhibiting or not having symptoms from exposure, or lacking resources for limiting exposure).

For more on these practical principles, see the journal article “Navigating the Unknown: Shared Decision-Making in the Face of Uncertainty.”

For more information, see Agency for Toxic Substances and Disease Registry’s (ATSDR’s) Guidance for Clinicians.