

Pediatric Environmental History (0-18 Years of Age)

The Screening Environmental History

For all of the questions below, most are often asked about the child's primary residence. Although some questions may specify certain locations, one should always consider all places where the child spends time, such as daycare centers, schools, and relative's houses.

Where does your child live and spend most of his/her time?	_____
What are the age, condition, and location of your home?	_____
Does anyone in the family smoke?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you have a carbon monoxide detector?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you have any indoor furry pets?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
What type of heating/air system does your home have?	
<input type="checkbox"/> Radiator <input type="checkbox"/> Forced air <input type="checkbox"/> Gas stove <input type="checkbox"/> Wood stove <input type="checkbox"/> Other _____	
What is the source of your drinking water?	
<input type="checkbox"/> Well water <input type="checkbox"/> City water <input type="checkbox"/> Bottled water	
Is your child protected from excessive sun exposure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Is your child exposed to any toxic chemicals of which you are aware?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
What are the occupations of all adults in the household?	_____
Have you tested your home for radon?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Does your child watch TV, or use a computer or video game system more than two hours a day?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
How many times a week does your child have unstructured, free play outside for at least 60 minutes?	_____
Do you have any other questions or concerns about your child's home environment or symptoms that may be a result of his or her environment?	_____

Follow up/ Notes

The Screening Environmental History is taken in part from the following sources:

- American Academy of Pediatrics Committee on Environmental Health. Pediatric Environmental Health 2nd ed. Etzel RA, Balk SJ, Eds. Elk Grove Village, IL: American Academy of Pediatrics; 2003. Chapter 4: How to Take an Environmental History.
- Balk SJ. The environmental history: asking the right questions. *Contemp Pediatr*. 1996;13:19-36.
- Frank A, Balk S, Carter W, et al. Case Studies in Environmental Medicine. Agency for Toxic Substances and Disease Registry, Atlanta GA. 1992, rev. 2000. Taking an Exposure History.

This screening environmental history is designed to capture most of the common environmental exposures to children. The screening history can be administered regularly during well-child exams as well as to assess whether an environmental exposure plays a role in a child's symptoms. If a positive response is given to one or more of the screening questions, the primary care provider can consider asking questions on the topic provided in the Additional Categories and Questions to Supplement the Screening Environmental History, accessible at www.neefusa.org/pdf/PEHhistory.pdf.



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Additional Categories and Questions to Supplement The Screening Environmental History

For all of the questions below, most are often asked about the child's primary residence. Although some questions may specify certain locations, one should always consider all places where the child spends time, such as daycare centers, schools, and relative's houses.

General Housing Characteristics (For lead poisoning, refer to Table 3.2 in CDC Managing Elevated Blood Lead Levels Among Young Children [1.usa.gov/KAL9Yc](https://www.cdc.gov/KAL9Yc))

Do you own or rent your home?	_____
What year was your home built? (Or: Was your home built before 1978? 1950?)	_____
Has your child been tested for lead?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Is there a family member or playmate with an elevated blood lead level?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Does your child spend significant time at another location? (e.g. baby sitters, school, daycare?)	_____

Indoor home environment (For asthma, refer to Environmental History Form for Pediatric Asthma Patient [goo.gl/4JdUIs](https://www.goo.gl/4JdUIs))

If a family member smokes, does this person want to quit smoking?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Is your child exposed to smoke at the baby sitters, school, or daycare center?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do regular visitors to your home smoke?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Have there been renovations or new carpet or furniture in the home during the past year?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Does your home have carpet?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Is the room where your child sleeps carpeted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you use a wood stove or fire place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Have you had water damage, leaks, or a flood in your home?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you see cockroaches in your home daily or weekly?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you see rats and/or mice in your home weekly?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you have smoke detectors in your home?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure

Air Pollution/Outdoor Environment (For asthma, refer to Environmental History Form for Pediatric Asthma Patient [goo.gl/4JdUIs](https://www.goo.gl/4JdUIs))

Is your home near an industrial site, hazardous waste site, or landfill?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Is your home near major highways or other high traffic roads?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Are you aware of Air Quality Alerts in your community?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you change your child's activity when an Air Quality Alert is issued?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure
Do you live on or near a farm where pesticides are used frequently?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not sure



Food and Water Contamination

If you use well water for drinking, when was the last time the water was tested?

Coliform bacteria_____ Other microbials_____ Nitrites/nitrates_____ Arsenic_____ Pesticides_____

For all types of water sources:

Have you tested your water for lead?

Yes No Not sure

Do you mix infant formula with tap water?

Yes No Not sure

Which types of seafood do you normally eat? _____

How many times per month do you eat that particular fish or shellfish? _____

How many times a week do you eat any of the following types of fish?

Shark_____ Swordfish_____ Tile fish_____ King mackerel_____ Albacore tuna_____ Other_____

How often do you wash fruits and vegetables before giving them to your child? _____

What type of produce do you buy? Organic Local Grocery store Other

Toxic Chemical Exposures (Also refer to Taking an Environmental History and Environmental and Occupational History in Recognition and Management of Pesticide Poisonings)

Consider this set of questions for patients with seizures, frequent headaches, or other unusual or chronic symptoms

How often are pesticides applied inside your home? _____

How often are pesticides applied outside your home? _____

Where do you store chemicals/pesticides? _____

Do you often use solvents or other cleaning or disinfectant chemicals? _____

Do you have a deck or play structure made from pressure treated wood? _____

Yes No Not sure

Have you applied a sealant to the wood in the past year? _____

Yes No Not sure

What do you use to prevent mosquito bites to your children? _____

How often do you apply that product? _____

Occupations and Hobbies

What type of work does your child/teenager do? _____

Do any adults work around toxic chemicals? _____

Yes No Not sure

If so, do they shower and change clothes before returning home from work? _____

Yes No Not sure

Does the child or any family member have arts, crafts, ceramics, stained glass work or similar hobbies? _____

Yes No Not sure

Health Related Questions

Have you ever relocated due to concerns about an environmental exposure? _____

Yes No Not sure

Do symptoms seem to occur at the same time of day? _____

Yes No Not sure

Do symptoms seem to occur after being at the same place every day? _____

Yes No Not sure

Do symptoms seem to occur during a certain season? _____

Yes No Not sure

Are family members/neighbors/co-workers experiencing similar symptoms? _____

Yes No Not sure

Are there environmental concerns in your neighborhood, child's school, or day care? _____

Yes No Not sure

Has any family member had a diagnosis of any of the following?

Asthma Autism Cancer Learning disability

Does your child suffer from any of the following recurrent symptoms? _____

Cough Headaches Fatigue Unexplained pain_____

References

- Agency for Toxic Substances and Disease Registry. Case Studies in Environmental Medicine: Pediatric Environmental Health. 2002. <http://www.atsdr.cdc.gov/HEC/CSEM/pediatric/>. pp 62-68, 72-73.
- Agency for Toxic Substances and Disease Registry. Case Studies in Environmental Medicine: Taking an Exposure History. 2000. <http://www.atsdr.cdc.gov/HEC/CSEM/exphistory/>. pp 26-29.
- Agency for Toxic Substances and Disease Registry. Environmental Exposure History (I PREPARE). http://www.atsdr.cdc.gov/Asbestos/medical_community/working_with_patients/_downloads/IPrepCard.pdf.
- Association of Occupational and Environmental Clinics. Pediatric Environmental Health History (Goldman R., Shannon M., Woolf A). 1999. <http://www.aoec.org/resources.htm>.
- Centers for Disease Control and Prevention. Managing Elevated Blood Lead Levels Among Young Children: Recommendations from the Advisory Committee on Childhood Lead Poisoning Prevention. Atlanta: CDC; 2002. http://www.cdc.gov/nceh/lead/CaseManagement/caseManage_main.htm.
- Centers for Disease Control and Prevention/ National Center for Environmental Health. Key Clinical Activities for Quality Asthma Care. 2003. <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5206a1.htm>. pp 5-6.
- Children's Environmental Health Network. Environmental History-Taking (Balk S., Walton-Brown S., Pope A). 1999. <http://www.cehn.org/cehn/trainingmanual/pdf/manual-envhist.pdf>.
- Dunn AM, Burns C, Sattler B. Environmental Health of Children. *Journal of Pediatric Health Care*. Sept-Oct 2003;17(5): 223-23. p. 225.
- Environmental Protection Agency. Asthma Home Environment Checklist. February 2004. http://www.epa.gov/asthma/pdfs/home_environment_checklist.pdf.
- Environmental Protection Agency. Recognition and Management of Pesticide Poisonings. March 1999. <http://www.epa.gov/oppfead1/safety/healthcare/handbook/handbook.htm>. pp 20-21.
- Environmental Protection Agency. Tips to Protect Children from Environmental Risks. November 2004. <http://yosemite.epa.gov/ochp/ochpweb.nsf/content/tips.htm>.
- Institute of Medicine. Nursing, Health, and the Environment. <http://www.nap.edu/books/030905298X/html/>. pp 263-270.
- Pope AM, Snyder MA, Mood LH, eds. *Nursing, Health, and the Environment, Institute of Medicine Report*. Washington, DC: National Academy Press; 1995.
- Roberts JR, Landers KM, Fargason CA. An unusual source of lead poisoning. *Clinical Pediatrics* 1998;37:377-9.
- Roberts JR, Reigart JR. Environmental Health Education in the medical school curriculum. *Ambulatory Pediatrics* 2001;1:108-111.
- The National Environmental Education Foundation. Environmental History Form for Pediatric Asthma Patient. <http://www.neefusa.org/health/asthma/astmahistoryform.htm>.
- The National Environmental Education Foundation. National Pesticide Competency Guidelines for Medical & Nursing Education. <http://www.neefusa.org/health/pesticidesguidelinepublications/education.htm>. pp 35-36.
- The National Environmental Education Foundation. National Pesticide Practice Skills Guidelines for Medical & Nursing Practice. <http://www.neefusa.org/health/pesticidesguidelinepublications/practice.htm>. pp.30-32.
- The National Environmental Education Foundation. Taking an Environmental History. <http://www.neefusa.org/pdf/EnvhistoryNEETF.pdf>.
- University of Connecticut Health Center and US Environmental Protection Agency. Guidance for Clinicians on the Recognition and Management of Health Effects Related to Mold Exposure and Moisture Indoors. <http://www.oehc.uchc.edu/clinsler/MOLD%20GUIDE.pdf>. pp 38-39, 41.
- University of Maryland. Developing a Pesticide Exposure History. 2002. <http://www.entmclasses.umd.edu/Leaflets/pil25.pdf>. pp 3-10.
- University of Maryland School of Nursing. Environmental Health Assessment Guide for a Home and Family. <http://www.envirn.umaryland.edu/kellogg/HPDPFamilyAssessment.pdf>.

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