# **Checklist for Home Visitors**

# Using this Home Assessment Can Help Make Homes Healthier.

A trained home visitor can help find common asthma triggers in homes and discuss ways to reduce and remove triggers. Removing asthma triggers in the home, along with proper medical care can improve health.

The checklist is organized into a Core Assessment plus two appendices (Dust Mite Module and Mold and Moisture Module). The Core Assessment can be used for all types of housing and climates, but the additional modules can be used if dust mites or mold/moisture issues are suspected by the trained home visitor. The suggested action items in this checklist are generally simple and low cost.



# **Glossary of Asthma Triggers Commonly Found in Homes**

### **Combustion by-products**

**Triggers:** Particles and gases that are formed when fuel is burned.

**Where Found:** Gas cooking appliances, fireplaces, woodstoves, candles, incense, cigarettes, and unvented kerosene and gas space heaters.

### **Dust Mites**

Triggers: Body parts and droppings.

**Where Found:** Mattresses, bedding, carpeting, curtains, upholstered furniture, and stuffed toys. Dust mites are too small to be seen with the naked eye. They can survive in a range of climates, but they prefer high humidity.

#### Mold

Triggers: Mold spores, fragments, and odors.

**Where Found:** Indoor mold growth is often found in areas with more moisture such as kitchens, bathrooms, and basements, or areas where water damage has occurred. There are many types of mold and they can be found in any climate.





#### Pests

**Triggers:** Cockroaches—Body parts and droppings. Rodents—Fur, skin flakes, and urine.

Where Found: Areas with food and water such as kitchens, bathrooms, and basements.

### Pets with fur

Triggers: Fur, skin flakes, and saliva.

Where Found: Throughout entire home.

### Secondhand Smoke

**Triggers:** Mix of smoke from the burning end of a cigarette, pipe, or cigar and the smoke exhaled by a smoker.

Where Found: Anywhere that smoking is allowed.

### Volatile organic compounds (VOCs)

Triggers: Chemical vapors that come from household items.

Where Found: Products such as cleaning agents, deodorizers, air fresheners, perfumes, paints, nail polish, and nail polish remover.

United States Environmental Protection Agency



## **CORE ASSESSMENT**



# **Building Information**

#### **Checklist Questions**

## **Potential Action Steps**

• If you live in a rental home, you might need to ask permission to

make any changes, even minor repairs to the home. Renters often

are protected under tenant's rights laws. Contact local social services

#### Are your living quarters in a:

- One-unit building, detached from any other building?
- One-unit building, attached to one or more buildings?
- Building with two or more apartments?
- Manufactured/Mobile Home?

#### Is your home:

- Owned?
- Rented?

Occupied without payment of rent?

#### How many stories are there in your home including attics and basements?

No. of Stories:

## **Home Interior**

agencies if you need their help.

HEATING and COOLING	
Checklist Questions	Potential Action Steps
During the winter, what is the primary way your home is heated? Radiators Baseboard heater Forced hot air (vents) Space heater Fireplace/wood-burning stove Other: N/A In addition to the main source of heat, do you use any other source(s)? Radiators Baseboard heater Forced hot air (vents) Space heater Forced hot air (vents) Space heater Fireplace/wood-burning stove Other:	<text><list-item><list-item></list-item></list-item></text>

### **Core Assessment** (continued)

### **HEATING and COOLING**

#### **Checklist Questions**

#### How do you cool your home? (check all that apply)

- Central A/C
- Window A/C (or portable free-standing unit)
   Fans
- Evaporative cooler
- Other: \_\_\_\_\_
- N/A

### **Potential Action Steps**

#### Central A/C units

- Replace the filters every 3 months or as recommended by the manufacturer.
- Use filters with higher efficiency than standard furnace filters, such as upgraded pleated filters, if heating or cooling system manufacturer's specifications allow.
- The Heating Ventilation and Air Conditioning (HVAC) system should have a professional inspection annually.
- Promptly repair damaged parts.

#### Window A/C units

- Keep drip pans clean and the drain lines flowing properly.
- Follow the manufacturer's instructions for cleaning or replacing filters.

#### Evaporative coolers (often used in very dry climates)

• Follow the manufacturer's instructions for cleaning.

COOKING	
Checklist Questions	Potential Action Steps
What type of stove do you have? Gas Electric N/A	
Do you use an exhaust fan when cooking on your stove? Yes No N/A	<ul> <li>Use your exhaust fan (if it exhausts to the outside) or open a window when cooking.</li> </ul>
Does the fan exhaust to the outside? <ul> <li>Yes</li> <li>No</li> <li>Don't know</li> <li>N/A</li> </ul>	

#### **SMOKING**

	tential Action Steps
Do any members of your household smoke cobacco inside your home? Yes No	<ul> <li>Make your home a smoke-free zone.</li> </ul>
Do any visitors to your household smoke cobacco inside your home?	<ul> <li>Encourage household member(s) to stop smoking.</li> </ul>

Cor	e Assessment (continued)
SMOKING	
Checklist Questions	Potential Action Steps
In the last 12 months, how often has secondhand tobacco smoke entered inside your home from somewhere else in or around the building? Daily Daily Monthly A few times a year Never	<ul> <li>Work with the building owner/manager and other occupants to start a smoke-free policy throughout the building.</li> <li>Use a portable air cleaner that is rated to remove tobacco smoke.</li> </ul>
PETS	
Checklist Questions	Potential Action Steps
Do you have any pets in your home? Yes No	
<ul> <li>If Yes, please check all that apply:</li> <li>Cat(s)</li> <li>Dog(s)</li> <li>Bird(s)</li> <li>Other furry pets (e.g., rabbits, guinea pigs, hamsters, mice)</li> <li>Other non-furry pets</li> </ul>	<ul> <li>Talk to your healthcare provider to see if testing for allergy to your pets might be helpful for you.</li> <li>If you are allergic to pets, the best way to decrease asthma symptoms i to remove the pet from the home and thoroughly clean all surfaces in the home.</li> <li>If you are allergic, and cannot remove the pet from your home, you can decrease exposure, but it might not be enough to decrease symptoms. The best way to decrease symptoms is to do all of these things:</li> <li>% Keep pets out of your bedroom,</li> <li>% Wash your furry pets,</li> <li>% Use an air cleaner with HEPA filter,</li> <li>% Use allergen-proof mattress &amp; pillow covers.</li> </ul>
PESTS	
Checklist Questions	Potential Action Steps
In the last 12 months, have you seen cockroaches inside your home? Yes No Don't know	<ul> <li>Use integrated pest management (IPM) described below. For those with asthma, especially avoid the use of sprays and foggers.</li> <li><b>IPM concepts include:</b> <ul> <li>Keep counters, sinks, tables, and floors clean and free of clutter.</li> <li>Clean dishes, crumbs, and spills right away.</li> <li>Store food in airtight containers. This also applies to pet food.</li> <li>Seal cracks or openings in cabinets, walls, baseboards, and around plumbing.</li> <li>Keep trash in a closed container.</li> <li>Use pesticide baits and traps in areas away from children and pets. Follow manufacturer's instructions for correct use.</li> </ul> </li> </ul>

### **Core Assessment** (continued)



Co	re Assessment (continued)
MOISTURE and MOLD	
Checklist Questions Is there evidence of water damage, moisture, or leaks (such as damp carpet or leaky plumbing)?  Yes Don't know No	<ul> <li>Potential Action Steps</li> <li>Dry damp or wet items within 24-48 hours to avoid mold growth.</li> <li>Fix water leaks (such as leaky plumbing) as soon as possible.</li> <li>Replace absorbent materials, such as ceiling tiles and carpet,</li> </ul>
In the last 12 months, how often have you noticed any moldy/musty smells inside your home? Daily Monthly Weekly A few times a year	<ul> <li>if mold is present.</li> <li>Use air conditioner or dehumidifier to maintain low indoor humidity.</li> <li>Scrub mold off hard surfaces with detergent and water. Dry completely.</li> </ul>
In the last 12 months, was there mold covering an area greater than or equal to the size of an 8" x 11" piece of paper in your home? Yes Don't know No	<ul> <li>Empty and clean refrigerator and air conditioner drip pans regularly.</li> <li>Run the bathroom exhaust fan or open the window when showering.</li> </ul>
Do you use a dehumidifier?	• Keep relative humidity levels in your home around 30–50%.
Do you use a humidifier? Yes N/A No	Follow manufacturer's instructions and clean devices regularly to prevent mold growth.

### Core Assessment (continued)

## **Key Points**

**Volatile organic compounds (VOCs):** These chemicals are commonly found in cleaning products, perfumes, paints, and other household items. They can be harmful to all people with asthma.

- Limit exposure as much as possible by minimizing product use, using products only when person with asthma is not present, or trying alternative products.
- If products are used, carefully follow manufacturer's instructions on the label and make sure the area is well-ventilated.

**Other safety hazards:** Smoke and carbon monoxide can be deadly.

 Use smoke detectors and carbon monoxide alarms in the home. Follow manufacturer's instructions. For more information, go to <u>www.nfpa.org/public-education/</u> <u>resources/safety-tip-sheets</u>\* **Outdoor air:** Outdoor air pollutants and pollen can trigger asthma.

- Air pollutants and pollen can enter homes through open doors, windows, and other cracks or openings in the building.
- For current information about outdoor air quality, go to <u>www.epa.gov/airnow</u>
- \*The Centers for Disease Control and Prevention (CDC), the US Environmental Protection Agency (EPA) and the US Department of Housing and Urban Development (HUD) do not endorse the National Fire Protection Association. The National Fire Protection Association's website is suggested for informational purposes only.

## **Other Resources About Asthma**

CDC: www.cdc.gov/asthma/triggers.html

EPA: www.epa.gov/asthma/asthma-triggers-gain-control

HUD: www.hud.gov/program\_offices/healthy\_homes/healthyhomes/asthma

## **Summary Notes:**

.....

# **DUST MITE MODULE**

Answers in the **red checkboxes** (the first column) are associated with dust mites. The more checkmarks you have in the red column, the more likely you have high dust mite levels in your home. You can take actions shown at the end of this list.

Building			
Are all your windows sealed shut or don't open?	🔲 Yes	🔲 No	
ls any part of your living area below ground level?	🔲 Yes	🗋 No	
If YES, does this area ever get wet or stay wet for long periods (more than 1 week)?	🔲 Yes	🔲 No	
Heating, Ventilation, and Cooling			
During winter, are some outside walls cold?	🔲 Yes	🗋 No	🔲 Don't know
Does your air conditioner ever leak water onto walls or carpeting?	🔲 Yes	🗋 No	N/A (no A/C)
Does your home sometimes smell "stuffy," "stale," or "musty?"	🔲 Yes	🗋 No	🔲 Don't know
Bedroom Characteristics of Person with Asthma			
Do you have upholstered furniture in the bedroom of the person with asthma?	🔲 Yes	🗋 No	
Do you allow children to have stuffed animals/toys in the room?	🔲 Yes	🔲 No	
Dust Reservoirs (overall home)			
Do you have cloth sofa or chairs?	🔲 Yes	🗋 No	
Do you have cloth curtains?	🔲 Yes	🗋 No	
Can you see dust or dirt on your furniture, walls, ceiling, and curtains?	🔲 Yes	🔲 No	
Do you have wall-to-wall carpeting in more than half of the rooms in your home?	🔲 Yes	🔲 No	
Do you have wall-to-wall carpeting in your kitchen or bathrooms?	🔲 Yes	🔲 No	
Do you vacuum less than once a week?	🔲 Yes	🔲 No	
Dampness			
In the last 12 months, have you noticed condensation on windows in your home?	🔲 Yes	🔲 No	🔲 Don't know
If YES, does moisture regularly build-up on your windows/walls?	<b>Y</b> es	🔲 No	
In the last 12 months, have you had any water leaks?	🔲 Yes	🔲 No	🔲 Don't know
Do you use a dehumidifier regularly?*	🔲 Yes	🔲 No	🔲 N/A
*Regular use of dehumidifiers may suggest that a home is humid (dust mites prefer humic	d environr	nents).	

### **Dust Mite Module** (continued)

## **Action Steps to Decrease Dust Mites**

Talk to your healthcare provider to see if testing for dust mite allergy might be helpful for you.

#### If you are allergic to dust mites, you need to:

- Use a device to measure relative humidity in your home. Keep relative humidity levels in your home around 30- 50%.
- Cover mattresses and pillows in special allergenproof covers. Clean these according to manufacturer's instructions.
- Use washable bedding.
- Wash bedding weekly and dry completely
- Vacuum carpets, area rugs, and floors regularly. If possible, the person with asthma should stay out of rooms while they are vacuumed, swept, or dusted.

## **Summary Notes:**

## **MOLD AND MOISTURE MODULE**

Answers in a **red checkbox** (first column) are associated with moisture and potentially mold. A **yellow checkbox** (second column) indicates medium potential for concern, and a **green checkbox** (third column) indicates low potential for concern. The more checkmarks you have in red checkboxes, the more likely it is that you have moisture and mold in your home. You can take actions shown at the end of this list.

Building				
Is there a crawlspace under the building?	🔲 Yes		🔲 No	🔲 Don't know
Are any of the bedrooms in the basement	🔲 Yes		🔲 No	
NOTE: Many crawl spaces and basements are damp ar	nd may have mole	d that can enter the	home.	
Heating , Ventilation and Cooling	J			
In the bathroom where you shower or bathe, does the exhaust fan work?	No N/A	Don't know	Yes	
If YES, how frequently do you use it when showering or bathing?	Never	Sometimes	🔲 All the time	🔲 N/A
Does your kitchen vent exhaust outdoors?	No N/A	🔲 Don't know	Yes	
Does your clothes dryer exhaust outdoors?	No	Don't know	<b>Y</b> es	<b>N/A</b>
NOTE: Properly maintained exhaust fans that vent to t exhaust fans do not work or do not vent outside, high				
	mannancy can ac			5
Carpet				-
	Yes		No	
Carpet Do you have wall-to-wall carpeting in your		Some carpeting		
Carpet Do you have wall-to-wall carpeting in your kitchen or bathrooms? What kind of floor covering is in the bedroom?	Yes Wall- to-wall carpeting	Some carpeting	<ul> <li>No</li> <li>All smooth floor</li> </ul>	owth and create a
Carpet Do you have wall-to-wall carpeting in your kitchen or bathrooms? What kind of floor covering is in the bedroom? NOTE: Carpeting in areas that are prone to water spills	Yes Wall- to-wall carpeting	Some carpeting	<ul> <li>No</li> <li>All smooth floor</li> </ul>	owth and create a
Carpet Do you have wall-to-wall carpeting in your kitchen or bathrooms? What kind of floor covering is in the bedroom? NOTE: Carpeting in areas that are prone to water spills place where dust mites can thrive.	Yes Wall- to-wall carpeting	Some carpeting	<ul> <li>No</li> <li>All smooth floor</li> </ul>	owth and create a
Carpet Do you have wall-to-wall carpeting in your kitchen or bathrooms? What kind of floor covering is in the bedroom? NOTE: Carpeting in areas that are prone to water spills place where dust mites can thrive. Dampness In the last 12 months, have you noticed	Yes Wall- to-wall carpeting s can be hard to d Yes a sign that moistu	Some carpeting	<ul> <li>No</li> <li>All smooth floor</li> <li>can lead to mold gr</li> <li>No</li> </ul>	
Carpet Do you have wall-to-wall carpeting in your kitchen or bathrooms? What kind of floor covering is in the bedroom? NOTE: Carpeting in areas that are prone to water spills place where dust mites can thrive. Dampness In the last 12 months, have you noticed condensation on windows in your home? NOTE: Condensation (water droplets) on windows is	Yes Wall- to-wall carpeting s can be hard to d Yes a sign that moistu	Some carpeting	<ul> <li>No</li> <li>All smooth floor</li> <li>can lead to mold gr</li> <li>No</li> </ul>	

## Mold and Moisture Module (continued) Action Steps to Decrease Moisture and Mold



- Dry damp or wet items within 24-48 hours.
- Fix water leaks (such as leaky plumbing) as soon as possible.
- Replace absorbent materials, such as ceiling tiles and carpet, if mold is present.
- Use an air conditioner or a dehumidifier to maintain 30-50% relative humidity indoors.
- Scrub mold off hard surfaces with detergent and water. Dry completely.
- Empty and clean refrigerator and air conditioner drip pans regularly.
- Use the bathroom exhaust fan or open the window when showering.

## **Summary Notes:**

#### For more information please contact

Centers for Disease Control and Prevention, 1600 Clifton Road NE, Atlanta, GA 33029-4027 Telephone: 1-800-CDC-INFO (232-4636) / TTY: 1-888-232-6348 E-mail: <u>cdcinfo@cdc.gov</u> Web: <u>www.cdc.gov/asthma</u> Publication date: June 2018

