

Recommendations for reduction or elimination of asthma triggers Home walkthrough program

Asthma trigger	Known allergy?	Reason for investigation	Area of investigation	What to look for	Recommendations	Room(s) where trigger is identified	Comments
					Refer family members who smoke to smoking cessation resources such as the Lung Help Line 1-800-548-8252.		
Smoking	No	Asthma attacks can be triggered by	Smoking in the home	Smell of smoke in the home	Ask family members who smoke to smoke outside. Implement a smoke-free home and vehicle rule in the home and car.		
Sm	Yes	smoke			Do not smoke in the house. If not possible, limit smoking to either the basement or attic.		
			Third-hand smoke	Smell of smoke on clothing	When smoking outside, use a smoking jacket to limit the smell when coming back into the home. Wash hands after smoking.		
					Damaya whom passible upheletaned (stuffed)		1
		Dust mites like to live		Upholstered or stuffed chairs	Remove, where possible, upholstered (stuffed) furniture and replace with wooden, leather or plastic furniture. If not possible, vacuum weekly. A HEPA vacuum with hand attachment works well to lower dust.		
Dust/Dust mites		in dark and damp environments and can often be found in the base of the carpet, upholstered	Furniture	Bed	Wash sheets weekly in hot water and thoroughly dry in hot dryer. Use mattress and pillow covers to reduce dust mites. Mattress and pillow casings do not need to be washed.		
Dust	¥	furniture and stuffed animals		All horizontal surfaces (e.g. bookshelves, counters)	Avoid open bookshelves, as they are great dust catchers. Wet dust all shelves, counters, etc. Use wire shelving to limit dust collection, especially in the top of the closets.		
			Stuffed animals	Allergen free stuffed animals	Replace existing stuffed animals with allergen free stuffed animals.		

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þ			Stuffed animals	How often are they washed?	Stuffed animals should be machine washable and washed in hot water or placed in the freezer overnight at least weekly.		
ntinue		Dust mites like to live in dark and damp	continued	Where are stuffed animals kept?	Stuffed animals contained in closed containers are less likely to gather dust.		
Dust/Dust mites continued	Yes No	environments and can often be found in the base of the carpet, upholstered furniture and stuffed animals	Carpet	Carpeting covering room flooring	Carpet should be removed, if possible, where the person with asthma sleeps and plays. If carpets cannot be removed or replaced with hard flooring, carpeting should be vacuumed daily. A HEPA vacuum will lower the most dust counts. Area rugs should be laundered weekly. Use plastic totes for organizing and storing. Use hangers for clothing. Ensure there is open		
nst				Area rugs	Area rugs should be laundered weekly.		
			Overall cleanliness	General clutter (clothing, toys, food, etc)			
			Decements and	Musty odor, stains on ceilings	Repair or replace leaky roofs, missing gutters/downspouts, foundation holes, missing mortar. Use dehumidifier.		
Mildew			Basements and attics	Cardboard on floor or against basement walls	Cardboard (boxes or loose cardboard) should be stored on shelves, on a plastic pallet or in plastic tubs. Never store cardboard on floor or agains walls.		
Moisture / Mildew	Yes No	Inhaling mold spores can cause an asthma attack and mold growth can occur in	Furnace	Dirty furnace filter	Change furnace filter every 3 months. Recommended use of filters rated MERV 8 or above, or capable of filtering molds.		
Mold / Mc	Ϋ́	less than 12 hours	Roofs and gutters	Leaky roofs, clogged gutters and downspouts	Repair or replace leaky roofs and clean gutters and downspouts annually. Water from downspouts should be directed away from the house.		
			Walls, ceilings and flooring	Discolored spots or condensation, especially in corners and behind shelves	Clean the mold from the surface it's growing on with a soapy solution.		

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					Home recipies to remove mold:		
					- Sprinkle baking soda over mold first then use a mixture of vinegar, (1/2) water (1/2), teatree (couple drops).		
					- Full strength vinegar. Apply with a sponge or scrubby.		
			Walls, ceilings	Discolored spots or condensation,	- Full strength lemon juice. Apply with a sponge or scrubby.		
þ			and flooring	especially in corners and behind shelves	- Mix 1 part hydrogen peroxide (3%) with 2 parts water. Apply to area, wait at least 1 hour before rinsing.		
Mold / Moisture / Mildew <i>continued</i>	ON	Inhaling mold spores			There is no practical way to eliminate all mold. To limit indoor mold growth, control water leaks and high humidity. Identify the source and fix the problem. Visible mold on walls can indicate larger mold problems inside the walls.		
e / Mi	es	can cause an asthma attack and mold growth can occur in	Appliances	Appliance that is on or near carpeting	If possible, ensure refrigerator is located on hard flooring. Use a rubber tray to catch water. Bathrooms should be free of standing water on sinks and floors. Repair broken seals around toilets and/or replace missing gaskets.		
loistur	¥	less than 12 hours	Appliances	Water located near or under appliance			
Mold / M			Bathroom facilities	Standing water			
			racincies	Cleanliness of bathrooms	Bathrooms should be cleaned regularly.		
			Ventiliation	Exhaust fans in bathroom and kitchen	Exhaust fans should be vented to the outside and used during bathing and cooking for 1 hour after finished. If there is no exhaust fan, open windows. Exhaust fans should be cleaned in the spring and fall.		
			Sink	Standing water	Identify where the water is coming from and fix the problem.		
				Carpeting or rug is next to sink	When possible, put hard flooring around sink area.		March 2012

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Mildew continued			Plants	Any plant in the home	Limit number of plants, use watering trays and encourage regular maintenance (such as tossing dead leaves, emptying full water trays regularly). Remove plants from window space to increase air flow.		
/ Moisture / Mildew	es N	Inhaling mold spores can cause an asthma attack and mold growth can occur in less than 12 hours	Windows and glass doors	Condensation on the glass	Condensation on the glass is normal when there is a big change from outdoor and indoor air temp. If glass is always wet it means that there is not enough air circulation. Remove furniture, plants or window dressings covering air ducts in front of windows.		
M / pioM		Mold/moisture that cannot be controlled by steps above	Mold/moisture issues beyond control of family	If the mold cannot be managed contact a remediator: www.dhs.wisconsin.gov/eh/hlthhaz/fs/moldinfo.htm			
					Remove or block hiding places. Cauk cracks and crevices to prevent access. Do not store newspapers, paper bags, and boxes for long periods of time. Bathe pets regularly and wash mats or surfaces they lie on to control fleas.		
/ Vermin	No	Droppings or body parts of decaying cockroaches and other pests (mice,	Evidence of pest/vermin can be found in corners, behind book shelves,	Look for droppings or dead pests	Block potential entryways. Install screens on floor drains, windows and doors. Install weather stripping on windows and doors. Install door sweeps. Install copper mesh on mouse holes as it does not rust. Patch holes in walls, especially under sinks.		
Pests	>	ants, silverfish) can trigger asthma	under sinks, along window sills, or any		Check exterior of home for entry points such as holes or gaps in the foundation.		
			dark/wet area		Reduce/remove water sources. Fix leaky plumbing. Regularly empty water trays for plants and under refrigerator.		
					Do not use over-the-counter pesticides as they could trigger an attack. Pest glue traps and closed bait stations are safe methods for removing pests.		March 2012

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	Regularly clean the stove and refrigerator. Pull the appliances out from the wall and clean behind them.						
pa					Wash dishes after every meal. Keep dirty dishes out of the sink.		
inu					Degrease all kitchen surfaces weekly.		
Vermin continued	No	Droppings or body parts of decaying cockroaches and other pests (mice,	Evidence of pest/vermin -	Look for droppings or dead pests - continued	Store food in sealed glass or plastic containers with lids. Do not leave food out on counter. Do not leave food in pet bowls.		
		ants, silverfish) can trigger asthma	continued	dedu pests continued	Garbage cans should have tight fitting lids and should be removed from the home when full.		
Pests					Clean up droppings and dried bugs with HEPA vacuum OR spray/mist with water and then wipe or gently sweep up.		
			Visit <u>www.chawisconsin.org/asthma-</u>	resources.htm for information on pest control			
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Animals (cat, dog, etc)	No	Pet's dead skin flakes, urine, feces, saliva and	Pets	Warm-blooded animals such as dogs, cats,	Remove animals from home, if possible. If not possible, keep animals out of sleeping space.		
Anii (cat,	Yes	hair/feathers can trigger asthma	mice, gerbiis	mice, gerbils and hamsters; or birds	Acceptable animals include: fish, amphibians, butterflies, nonpoisonous snakes.		
products	0	No.	Paints and thinners	Paint and thinners stored near heating appliance or ventilation system	Store paint and thinners in ventilated areas (e.g. garage). Store a minimum of 10 feet away from heating appliances (e.g. furnace or water heater). Never stored in a confined furnace room.		
VOC producing p	S	VOC producing products are both potentially toxic and can irritate airways	Cleaning	Look to see if cleaning products have strong	Keeping a clean home is important. Use home cleaning recipies or select consumer products that are fragrance-free and release limited chemical odors.		
Noc			chemicals	scents or chemicals	Visit <u>www.chawisconsin.org/asthma-resources.htm</u> for information on fragranced consumer products and green washing.		March 2012

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				Look for source of odor	Remove plants that smell stale.		
	I lindicates model 1. """ Luindaus and sinks on 1	Sinks should be wiped, in and around, after every use. (See Mold/Moisture/Mildow for more information).					
		Poor ventilation can cause odors to linger	Ventiliation	Exhaust fans in bathroom and kitchen	Exhaust fans should be used during bathing and cooking (for 1-hour following). If there is no exhaust fan, open windows.		
					Wood-burning stove or fireplace may not be working correctly. Have stove and chimney inspected every year to ensure no gaps, cracks or unwanted drafts and to remove dangerous creosote build-up.		
Odors	Yes No		Wood burning stove or fireplace	Home smells of smoke and has a wood buring stove and/or fireplace	ring stacked, covered and stored for at least six		
	,				Ensure stove is externally exhausted.		
					If possible, replace old stove with new, cleaner heating appliance. Newer stoves are more efficient and pollute less, saving in fuel costs.		
				Overpowering fragrances	Perfume should be used sparingly.		
		Scents/fragrances could also trigger asthma		Plug-in / spray air fresheners	All scented items should be eliminated or restricted. Pug-ins and air fresheners may mask water intrusion or lack of ventilation. Bleach should not be used in living space. (See Mold/Moisture/Mildow for more information).		
				Potpourri			
				Scented candles			

Information and resources gathered from WI Asthma Coalition members, the Environmental Protection Agency, Centers for Disease Control, and the Department of Housing and Urban Development.