1 Hour Session and Learning Collaborative

Environmental Triggers and Second Hand Smoke

December 10, 2020

12:00pm-1:00pm

1:00pm-1:30pm (LC Participants)

Learning Collaborative
Participants Please remain on the
WebEx following presentation





WebEx Details

Please use Mozilla's Firefox or Google's Chrome to access the WebEx application. If you do not have one of these browsers installed, you will need to download one of them.

- 1. Open FireFox or Google Chrome
- 2. Enter: <u>www.webex.com</u> or click link:

https://onecarevt.webex.com/onecarevt/j.php? MTID=mad058547f9edf5227f09974e81844359

- 3. Click on "Join" in the upper right hand corner
- 4. Enter Meeting Number: 172 113 2786
- 5. Enter Meeting Password: OCVT
- 6. Enter Your Name and Enter Your Email Address
- 7. Call 1-415-655-0001 & 172 113 2786



Monitoring Form

Date: 12/10/2020 Title of Program: OneCare Vermont – Environmental Where: via WebEx

Triggers and Second Hand Smoke

Please list speaker/moderator:

Norman Ward, MD; Laura Capps, Emerging Technologies and Services Manager, Efficiency Vermont & Sarah Cosgrove, RCP, MTTS, AE-C, Community Health

Please list all planning committee members:

Norman Ward, MD; Susan Shane, MD; Jennifer Gordon, LICSW; Emily Martin, RN; Tawnya Safer, BS

Purpose Statement/Goal of this activity: Provide up to date information on environmental triggers and second hand smoke.

Learning objectives (do not use "understand"):

- 1. Outline environmental triggers to assess for in patients with chronic respiratory disease.
- 2. Recognize what a healthy home is for those with chronic respiratory disease.
- 3. Identify assessment tools and community resources available.

Does the speaker or any of the planners have anything to disclose?□Yes ⊠No

If yes, please list all potential conflicts of interest: If yes, were the potential conflicts resolved: □Yes ☒No

Did this activity receive any commercial support (grants or in-kind)?□Yes ⊠No

If yes, please list all organizations and support type:

In support of improving patient care, The Robert Larner College of Medicine at The University of Vermont is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

The University of Vermont designates this live activity for a maximum of 1AMA PRA Category 1 Credit(s)TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This program has been reviewed and is acceptable for up to 1 Nursing Contact Hours.

As a Jointly Accredited Organization, The Robert Larner College of Medicine at the University of Vermont is approved to offer social work continuing education by the Association of Social Work Boards (ASWB) Approved Continuing Education (ACE) program. Organizations, not individual courses, are approved under this program. State and provincial regulatory boards have the final authority to determine whether an individual course may be accepted for continuing education credit. The University of Vermont maintains responsibility for this course. Social workers completing this course receive 1 continuing education credits.

This activity was planned by and for the healthcare team, and learners will receive 1Interprofessional Continuing Education (IPCE) credit for learning and change.



Important Reminder:

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Welcome

Norman Ward, MD Chief Medical Officer



Agenda

	Presenter	Time
Noon- 12:05pm	Norman Ward, MD Chief Medical Officer, OneCare Vermont Introduction & Session Logistics	5 Minutes
12:15pm- 12:45pm	Laura Capps, Emerging Technologies and Services Manager, Efficiency Vermont & Sarah Cosgrove, RCP, MTTS, AE-C, Community Health	40 Minutes
12:45pm- 1:00pm	Q&A	15 Minutes



Presenter Bio(s)

Laura Capps

Laura facilitates the identification and qualification of new disruptive technologies and services for Efficiency Vermont's future programs. Her current projects include healthy homes, healthy buildings, and managing the research and development portfolio. Most recently, Laura wrote Vermont's Healthy Homes Playbook and co-wrote the Energy-Plus-Health national playbook. Laura holds degrees in sustainable development and building construction from Appalachian State and Georgia Tech respectively, and numerous industry certifications and awards.

Sarah Cosgrove, RCP, CTTS-M, AE-C

Sarah is the CHT Education Coordinator for the Community Health Team at Rutland Regional Medical Center. Sarah is a licensed Respiratory Therapist, Health Coach, certified master level Tobacco Treatment Specialist and certified Asthma Educator. In these roles, Sarah has conducted training and provided mentoring for Tobacco treatment specialists and Asthma Educators over the past 12 years. She is also the Regional Coordinator for Tobacco Cessation services in the Rutland hospital service area where she works in the community, 1:1 and with groups. Sarah is a University of Massachusetts certified trainer for Tobacco Treatment specialists working with the VT department of Vermont as a content expert. She assisted in the development of Vermont training for the American Cancer Society's Fresh start Tobacco cessation groups, conducting trainings across the state. In addition, Sarah also works as the Asthma educator as part of the In Home Visiting Asthma program providing individualized education to patients with asthma and identifying environmental triggers in the home.

Session Goal & Learning Objectives

Session Goal:

Session Learning Objectives:

- 1. Outline environmental triggers to assess for in patients with chronic respiratory disease.
- 2. Recognize what a healthy home is for those with chronic respiratory disease.
- 3. Identify assessment tools and community resources available.

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December 11, 2020

Noontime Knowledge Asthma & COPD Learning - Environmental Triggers

Sarah Cosgrove, RCP, CTTS-M, AE-C, Rutland Regional Medical Center

Laura Capps, BPI BA & HHE, CEM, MS, Efficiency Vermont

Learning Objectives

- 1. Outline environmental triggers to assess for in patients with chronic respiratory disease.
- 2. Recognize what a healthy home is for those with chronic respiratory disease.
- 3. Identify assessment tools and community resources available.

Agenda

- Setting the stage 5 min
- What is a healthy home? 25 min
 - Identifying signs and making improvements
- Micro spaces and chemicals, screening questions –
 10 min
- Q&A 15-20 min



What is a healthy home?



- 1. Why the home environment matters
- 2. Defining healthy home
- 3. Signs of an unhealthy home
- 4. Resources for home improvement

Why our homes matter

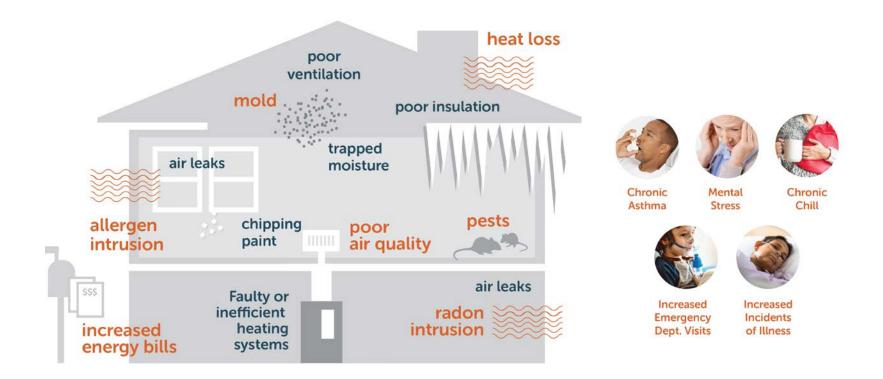


Defining a healthy home



Graphic source: BPI.org

Signs of an unhealthy home







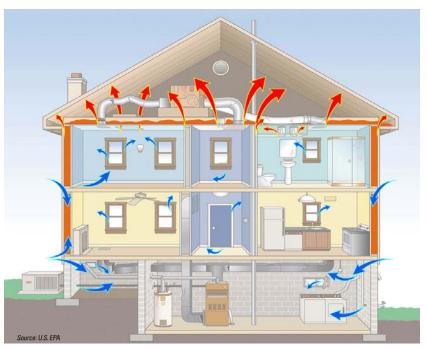








This Photo by Unknown Author is licensed under CC BY-SA

















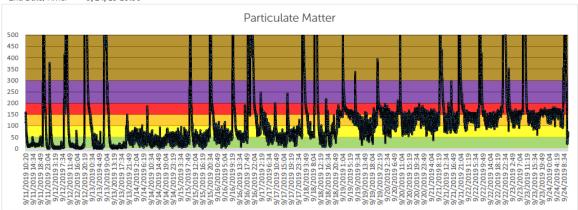
Quantifying air quality

YOUR INDOOR AIR QUALITY REPORT

Name: Sample Address:

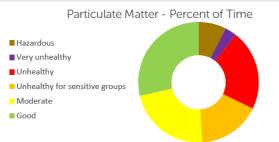
Start Date/Time: 9/11/19 10:20 End Date/Time: 9/24/19 10:56

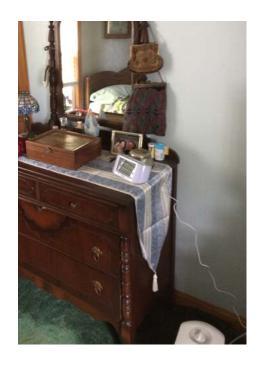




Particulate Matter			
Hazardous	301+		
Very unhealthy	201 - 300		
Unhealthy	151 - 200		
Unhealthy for sensitive groups	101 - 150		
Moderate	51 - 100		
Good	0-50		

Percent of Time 7.5% 3.1% 21.6% 16.8% 22.4% 28.6%

































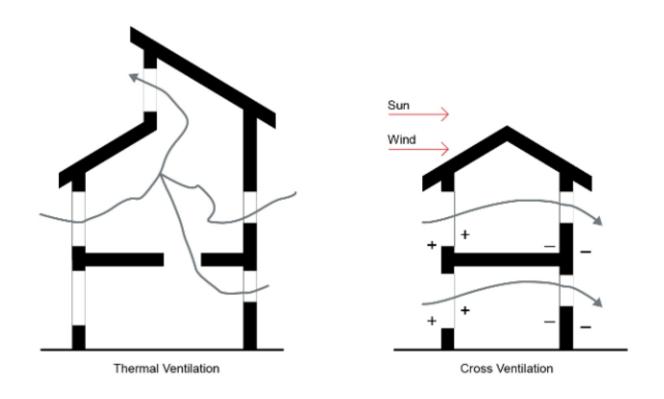
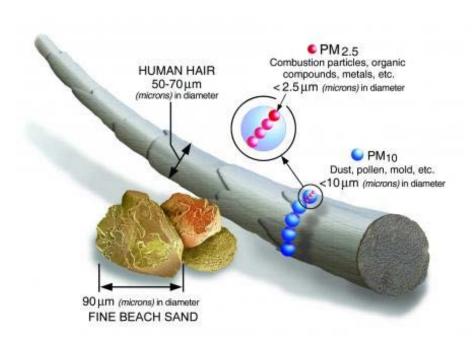


Image source: Auckland Design Manual

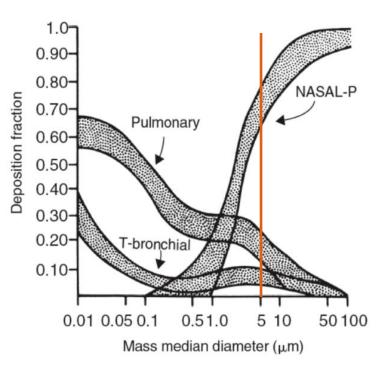


MERV 1	.3 to 1.0 microns	Particles size 1.0 to 3.0 microns	Air Particles size 3 to 10 microns	~ Removes These Particles	
	< 20%	< 20%	< 20%	Fiberglass & Aluminum Mesh	
MERV 2	< 20%	< 20%	< 20%	~	
MERV 3	< 20%	< 20%	< 20%	Pollen, Dust Mites, Spray Paint	
MERV 4	< 20%	< 20%	< 20%	Carpet Fibres	
MERV 5	< 20%	< 20%	20% - 34%	Cheap Disposable Filters	
MERV 6	< 20%	< 20%	35% - 49%	~	
MERV 7	< 20%	< 20%	50% - 69%	Mold Spores, Cooking Dusts,	
MERV 8	< 20%	< 20%	70% - 85%	Hair Spray, Furniture Polish	
MERV 9	< 20%	Less than 50%	85% or Better	Better Home Box Filters	
MERV10	< 20%	50% to 64%	85% or Better	~	
MERV 11	< 20%	65% - 79%	85% or Better	Lead Dust, Flour, Auto	
MERV 12	< 20%	80% - 90%	90% or Better	Fumes, Welding Fumes	
MERV 13	Less than 75%	90% or Better	90% or Better	Superior Commercial Filters	
MERV 14	75% - 84%	90% or Better	90% or Better	~	
MERV 15	85% - 94%	95% or Better	90% or Better	Bacteria, Smoke, Sneezes	
MERV 16	95% or Better	95% or Better	90% or Better	The second secon	
MERV 17	99.97%	99% or Better	99% or Better	HEPA & ULPA	
MERV 18	99.997%	99% or Better	99% or Better	~	
MERV 19	99.9997%	99% or Better	99% or Better	Viruses, Carbon Dust, <.30 pr	
MERV 20	99.99997%	99% or Better	99% or Better	The second secon	

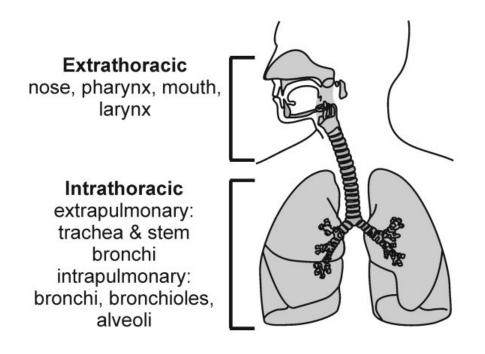
Particle size

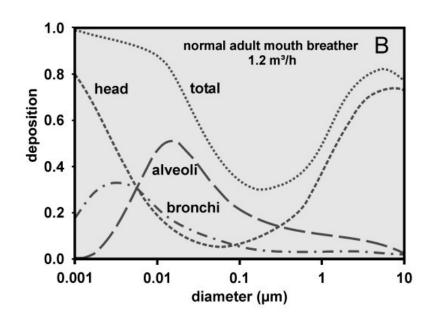


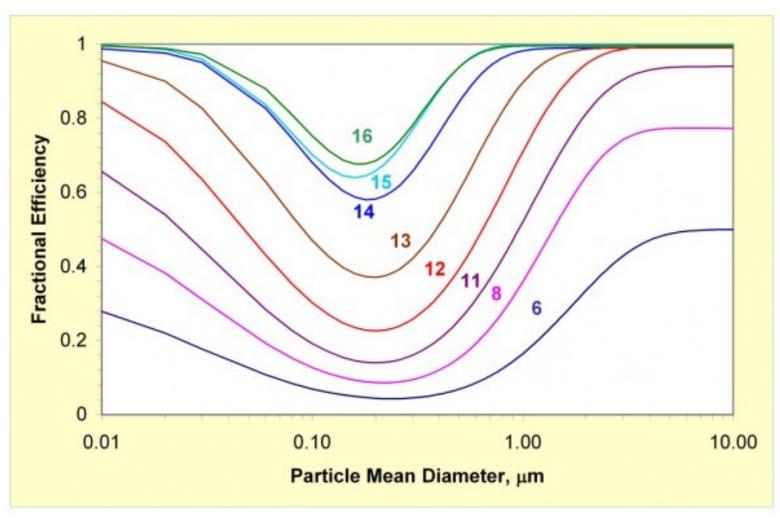
Human filters



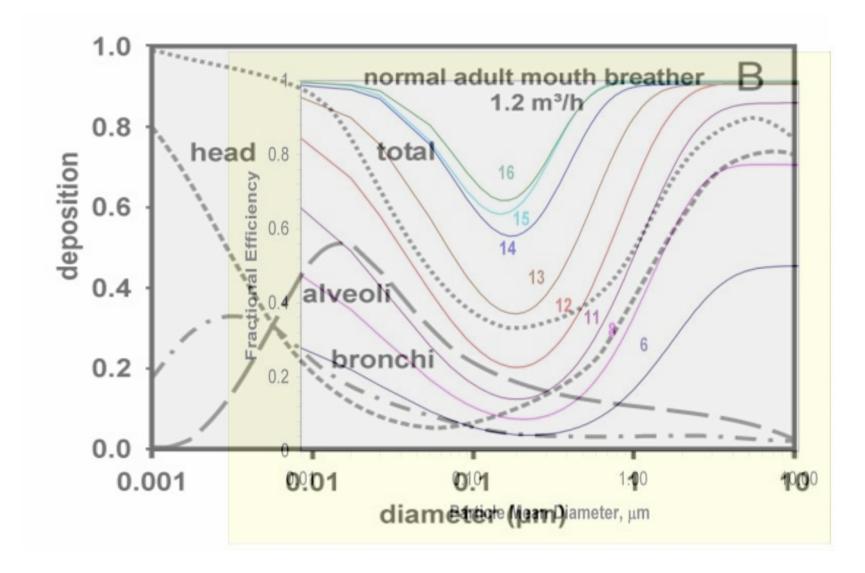
Task Group on Lung Dynamics (1996). Health Physics. 12: 173.







MERV Filter Models, National Air Filtration Association, https://www.nafahq.org/merv-filter-models/



Finding MERV 13 Filters

Buying online?

Search for "MERV 13"

Buying at a home improvement store?

Search for "FPR 10" or "MPR 1900"

Buying from Europe?

Search for "F7"



Premium (10)



- Large particles like household dust & lint, dust mites, pollen & pet dander
- Small particles like bacteria and mold spores
- Smoke, smog, microscopic allergens, plus particles that can carry viruses
- Particles that can carry odors

Best (8-9)



- Large particles like household dust & lint, dust mites, pollen & pet dander
- Small particles like bacteria and mold spores
- Smoke, smog, microscopic allergens, plus particles that can carry viruses

Better (6-7)



- Large particles like household dust & lint, dust mites, pollen & pet dander
- Small particles like bacteria and mold spores

Good (4-5)

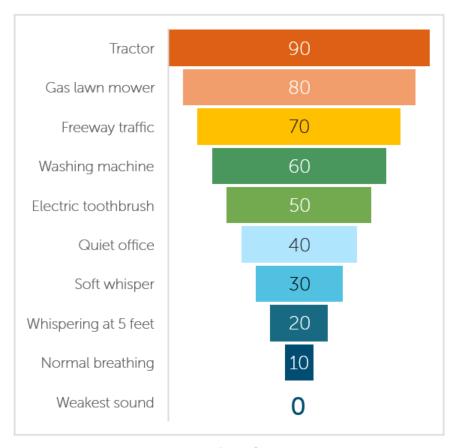


■ Large particles like household dust & lint, dust mites, pollen & pet dander

Image source: The Home Depot







Decibel Scale

Source: https://chchearing.org/noise/common-environmental-noise-levels/

















Thank you!





efficiencyvermont.com

One Care Asthma COPD Collaborative Dec 2020 Sarah Cosgrove's slides

Asthma & COPD Triggers in the home





THE BRIEF TOBACCO INTERVENTION: THE 5As

ISK

"Do you currently smoke or use other forms of tobacco?"

ADVISE

"Quitting tobacco is one of the best things you can do for your health. I strongly encourage you to quit."

ASSESS

"Are you interested in quitting tobacco?"

ASSIST

IF READY TO QUIT: Provide brief counseling and medication (if appropriate). Refer patients to other support resources that can complement your care like 80aquits.org and 1-800-QUIT-NOW (784-8669). For tips on how to offer brief counseling, see www.ahrq.gov/path/tobacco.htm.

IF NOT READY TO QUIT: Strongly encourage patients to consider quilting by using personalized motivational messages. Let them know you are there to help them when they are ready.

ARRANGE

Follow up regularly with patients who are trying to quit.



Smoke #1 trigger Asthma & COPD





802 QUITS Resources





Myhealthyvt.org

Environmental Assessment tool for Asthma Triggers

https://www.epa.gov/asthma/asthma-home-environment-checklist



HEATING and COOLING	
Checklist Questions	Potential Action Steps
How do you cool your home? (theck all that a pply) (theck all that a pply) (Certral A.C. Window A.C. for portable frae-standing unit) Fare Evaporative cooler Other: N.A.	Central IAC units Replace the filters every 3 months or as recommended by the manufacture: Use filters with higher efficiency than standard furnace filters, such ac uggraded pleated filters, if heating or cooling system manufacturer's specifications allow. The Heatra's benefation and Air Conditioning (FMAC) system should have a professional inspection arrusally. Promptly repair damaged parts. Window AAC units Keep drip parts clean and the drain lines flowing properly. Follow the marufacturer's instructions for cleaning or replacing fibers. Evaporative coolers (often used in very dry climates) Follow the marufacturer's instructions for cleaning.
COOKING	
Checklist Questions	Potential Action Steps
What type of store do you have? Gas Gas: Gas: Gas: NA Do you use an achaust fan when cooking on your store? No No No Does the fan exhaust to the outside? 'Yes No Does the fan exhaust to the outside? No No	Use your exhaust fan (if it axhausts to the outside) or open a window when cooking.
SMOKING	
Checklist Questions	Potential Action Steps
Do any members of your household smoke tobacce inside your home? Yes No	Make your home a smoke-free zone. Encourage household membershi to stop smoking.
Do any visitors to your household smoke tobacco inside your home? Yes No	

is all your windows sasled shut or don't open? If a all your windows sasled shut or don't open? If yes No If yes No	ie more likely you have high dust mite levels in your home. You can take actions shown a Building			
s any part of your living area below ground level?	Are all your windows sealed shut or don't open?	Yes	□ No	
PES, does this area ever get wet or stay wet for long periods (more than 1 weekpy Yes No	s any part of your living area below ground level?	☐ Yes	□ No	
No Don't know No Don't				
Avering winter, are some outside walls cold? Yes No Don't know				
Pees your home sometimes small "stuffy," "stale," or "musty?" Pees No Don't know	During winter, are some outside walls cold?	Yes	□ No	☐ Don't know
No Don't know No Don't	Does your air conditioner ever leak water onto walls or carpeting?			
No you have uphotstared furniture in the bedroom of the person with asthma?	Does your home sometimes smell "stuffy," "stale," or "musty?"	Yes	□ No	☐ Don't know
No you have uphotstared furniture in the bedroom of the person with asthma?	Bedroom Characteristics of Person with Asthma			
Ves No	Do you have upholstered furniture in the bedroom of the person with asthma?	Yes	□ No	
No you have cloth sofa or chairs?	Do you allow children to have stuffed animals/toys in the room?	☐ Yes	□ No	
No you have cloth sofa or chairs?	Dust Reservoirs (overall home)			
an you see dust or dirt on your furniture, walls, ceiling, and curtains?	Do you have cloth sofa or chairs?	Yes	☐ No	
Lan you see dust or dirt on your furniture, walls, cailing, and curtains?	Do you have cloth curtains?	Yes	☐ No	
No No No No No No No No	Can you see dust or dirt on your furniture, walls, ceiling, and curtains?	Yes	☐ No	
No you have wall-to-wall carpating in your kitchen or bathrooms? Yes No Dy you vacuum lest 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 YES, does moisture regularly build-up on your windows/walls? Yes No Don't know On the last 12 months, have you had any water leaks? Yes No Don't know	Do you have wall-to-wall carpeting in more than half of the rooms in your home	Yes	☐ No	
Dampness n the last 12 months, have you noticed condensation on windows in your home?	Do you have wall-to-wall carpeting in your kitchen or bathrooms?		☐ No	
n the last 12 months, have you noticed condensation on windows in your home?	Do you vacuum less than once a week?	Yes	☐ No	
FYES, does moisture regularly build-up on your windows/walls? Yes No nthe last 12 months, have you had any water leaks? Yes No Don't know	Dampness			
YES, does moisture regularly build-up on your windows/walls? YES NO Don't know The last 12 months, have you had any water leaks? YES NO DON'T know	n the last 12 months, have you noticed condensation on windows in your home	r 🔲 Yes	☐ No	☐ Don't know
n the last 12 months, have you had any water leaks?	f YES, does moisture regularly build-up on your windows/walls?	Voc		
	n the last 12 months, have you had any water leaks?	Yes		
Oo you use a dehumidifier regularly?*	Do you use a dehumidifier regularly?*	Yes	☐ No	
legular use of dehumidifiers may suggest that a home is humid (dust mites prefer humid environments).				

CHECALST OF Home Vision 3
HOME CHARACTERISTICS and ASTHMAN RIGIGERS



Focus on:

Where you spend most of your time when you are home?











Tell me about where you fall asleep?
Do you stay there all night?



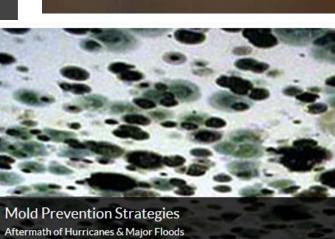


Tell me about your pets ?

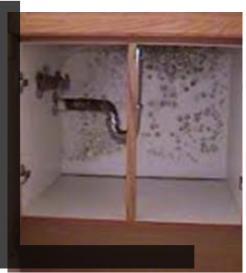












Mold









Asthma Trigger Control Products

Vermont Resources

Weatherization

- o Renters/ Homeowner low income qualified
- o Home not weatherized with past 10 years
- o Environmental assessment
- o Community support to RRMC Asthma program (in RRMC area)
- o Pest management support
- No costs associated
- o https://dcf.vermont.gov/benefits/weatherization

Efficiency VT

- o Homeowner
- o Energy audit and environmental assessment
- o Environmental report
- Low-cost energy efficient appliances (free for low-income qualified)
- o Air Quality monitor and report
- o www.efficiencyvermont.com

Neighbor Works

- o Homeowner
- Heat Squad Energy assessment and environmental assessment
- Environmental report
- Loan options/ home repairs
- Costs associated
- o https://www.nwwvt.org/

o Asthma educator/ Community Health worker

- o Renters/ Homeowner
- o Asthma AS-ME program participants (see program criteria)
- o EPA Environmental home assessment checklist
- o Home assessment Asthma triggers report
- No costs associated

Thank you!

Guide: https://802quits.org/wp-content/uploads/2020/07/802Quits QuitGuide2020 lowres.pdf

Ordering: https://802quits.org/providers/order-materials/



Questions & Answers

*please use chat box for questions

UVM CME/CEU

If you are interested in claiming 1.0 Credit for attending this session, please use the following or scan the QR code below.

http://www.highmarksce.com/uvmmed/index.cfm?do=ip.claimCreditApp&eventID=15468



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Survey Monkey Session Evaluation Link:

https://www.surveymonkey.com/r/EnvironmentTriggersSecondHandSmoke



Who to Contact with Questions:

Emily Martin, RN
Clinical Education Coordinator
OneCare Vermont
emily.martin@onecarevt.org

Tawnya Safer
Clinical Program Specialist
OneCare Vermont
tawnya.safer@onecarevt.org

Thank You!

Learning Collaborative Participants Please remain on the WebEx



