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December 5, 2017 1

Chronic Disease Trainings for Health Home Care Managers

Training Topic:	NYS Department of Health OHIP Health Home Live Webinar:
1) Chronic Conditions Overview	September 13 th
2) High Blood Pressure, Prehypertension & Hypertension	September 13 th
	1:00-2:30 pm
3) Prediabetes	November 8 th
4) Diabetes	1:00-2:30 pm
5) Asthma	December 6 th
	1:00 - 2:30
6) Arthritis & Chronic Disease Self-Management Program - *Live	January 31st 2018
Webinar ONLY*	1:00-2:30 pm

To receive updates and slides from these live sessions, sign up for the Medicaid Health Home listserv at: https://doi.org/nealth.ny.gov and request to be added to the Health Home listserv.



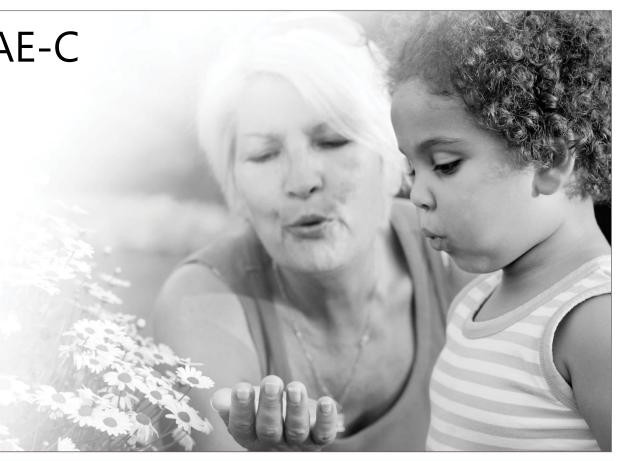
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CLAUDIA GUGLIELMO, MPA, AE-C

DIRECTOR



ANNE LITTLE, MPH, AE-C DIRECTOR



WHAT IS ASTHMA?

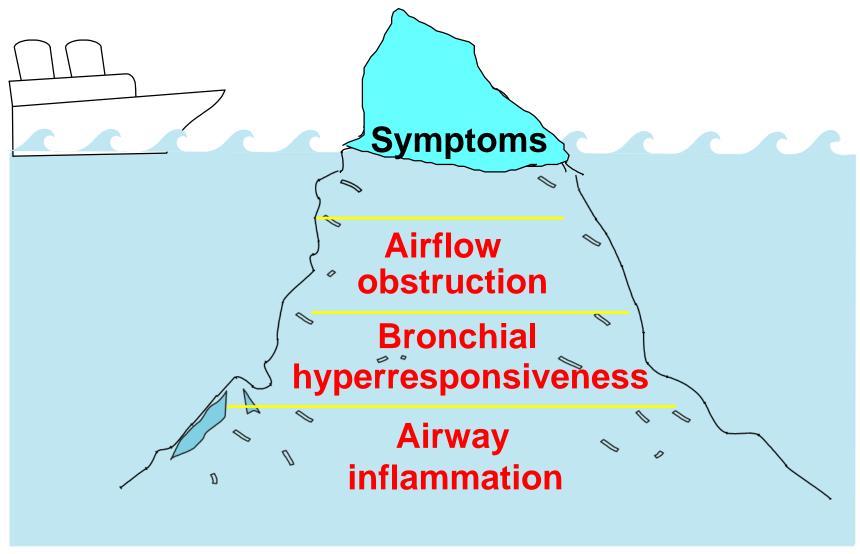
ASTHMA IS

A chronic inflammatory disorder of the airways

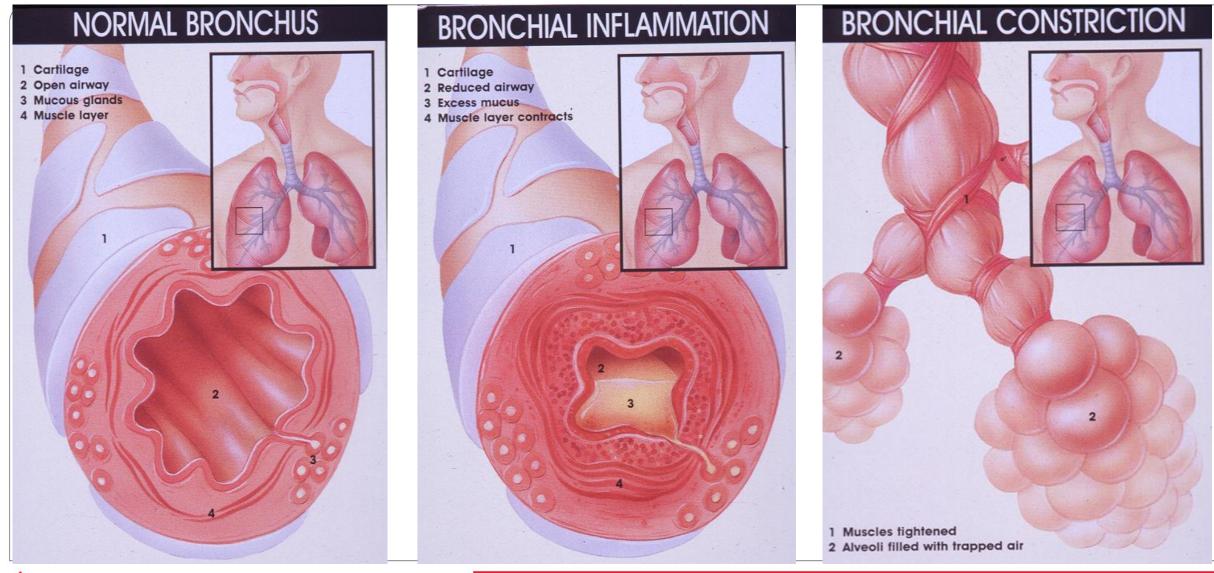
- Inflammation (swelling) of the lining of the airways
- **Bronchoconstriction** (tightening of the bands of smooth muscles surrounding the airways) which reduces the width of the airways
- Excess mucus production that further narrows the airways

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A LOT GOING ON BENEATH THE SURFACE



WHAT DOES ASTHMA LOOK LIKE?



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Myth

Asthma is a psychological or emotional illness

Truth

is real, even if triggered by strong emotions

Myth

Asthma is only an acute disease, and you can outgrow it

Truth

Asthma
is a chronic
disease, and
you do not
outgrow it

Myth Asthma is curable Truth

Asthma cannot be cured, but can be controlled

Myth

Asthma always limits normal activities

Truth

Daily asthma controller/ pre-exercise medications allow individuals to be active

Myth

Asthma limits
a person's
ability to fully
participate in
sports

Myth

Asthma medication and inhalers are addictive

Truth

Asthma medications and inhalers are not addictive

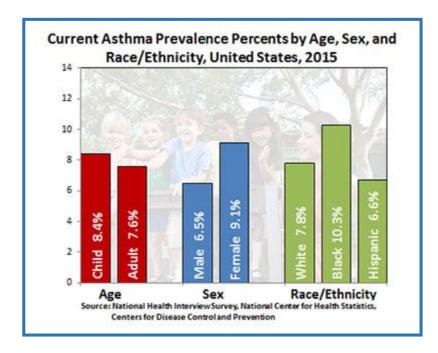
Well-controlled asthma should not limit exercise and individuals can fully participate in sports

Truth



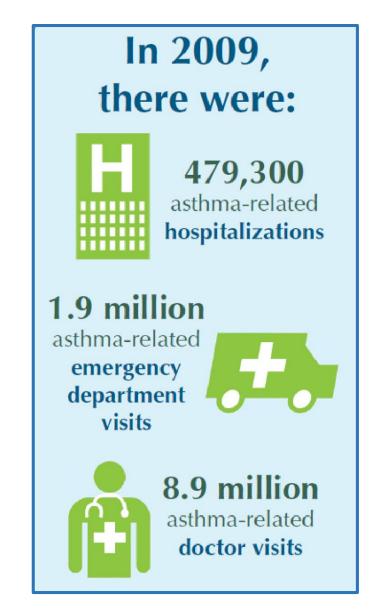
ASTHMA STATISTICS

Asthma Facts in the US



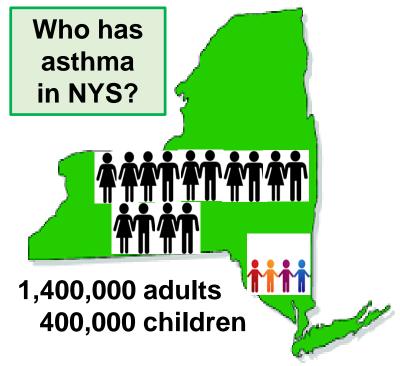
1 in 11 children has asthma

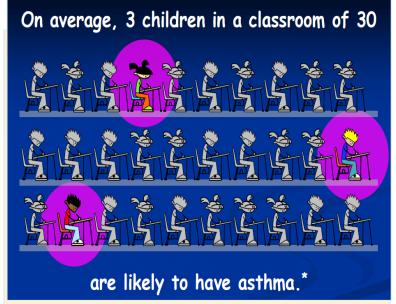
1 in 12 adults has asthma











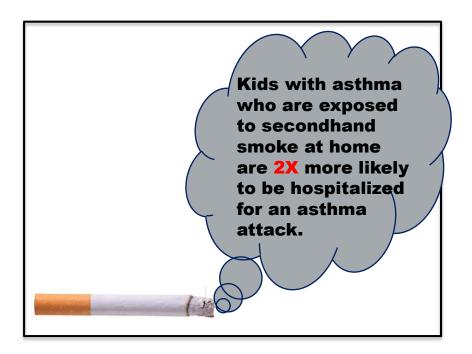
Asthma is the most common chronic condition among children and a leading cause of school absences.

ASTHMA IS COSTLY

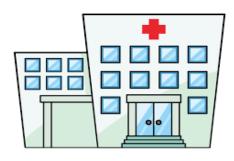
The average cost of an asthma hospitalization: \$18,625

Total projected cost for asthma in 2014 was \$3.45 billion, including loss of productivity





POOR ASTHMA CONTROL LEADS TO:



38,000 Hospitalizations



165,000+ Emergency Department Visits

AND 255 DEATHS

NYS Annually

RISK FACTORS FOR DEATH FROM ASTHMA

- History of severe exacerbations
- Prior intubation for asthma
- Prior admission to Intensive Care Unit
- 2 or more hospital admissions in the past year
- 3 or more emergency room visits in the past year
- Hospital or emergency room visit past month
- Use of >2 canisters per month of inhaled short-acting beta2 agonist

RISK FACTORS FOR DEATH FROM ASTHMA

- Chronic use of systemic corticosteroids
- Poor perception of airflow obstruction or its severity
- Co-morbid conditions (other diseases)
- Serious psychiatric disease or psychosocial problems
- Low socioeconomic status and urban residence
- Illicit drug use
- Sensitivity to alternaria-mold
- Lack of written asthma action plan

SYMPTOMS OF ASTHMA

BEFORE SYMPTOMS OCCUR: EARLY WARNING SIGNS

Early warning signs suggest the possibility of an asthma attack and are not the same for everyone.

- ✓ Shortness of breath
- ✓ Tightness in chest
- ✓ Pain in chest
- ✓ Less able to exercise
- ✓ Tired
- ✓ Itchy throat
- ✓ Watery eyes
- ✓ Dark circles around eyes
- ✓ Congestion
- ✓ Feeling Sad

- ✓ Fever
- ✓ Clammy skin
- ✓ Pale
- ✓ Dry Mouth
- ✓ Fast Heartbeat
- ✓ Dark Circles
- ✓ Sneezing
- ✓ Gets easily excited or upset
- √ Feels Restless

Early treatment is always most helpful, waiting for an episode to become full-blown usually means it will take more time and treatment to get relief.

SYMPTOMS OF ASTHMA



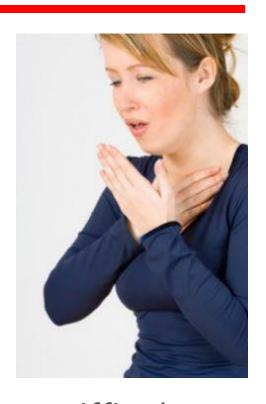
Wheeze

Cough



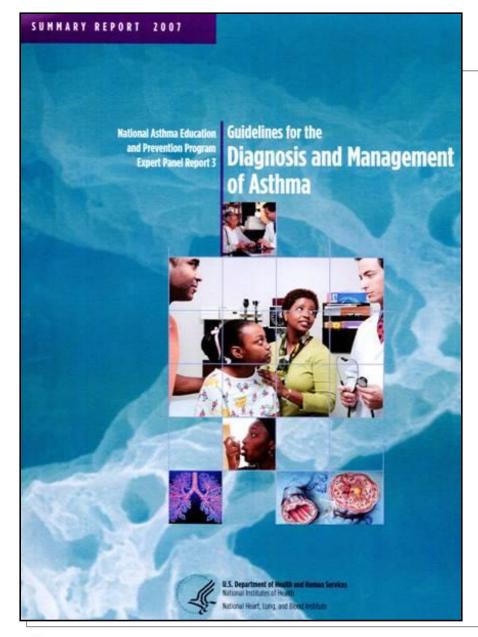
Tight Chest





Difficulty breathing shortness of breath

GUIDELINES-BASED CARE

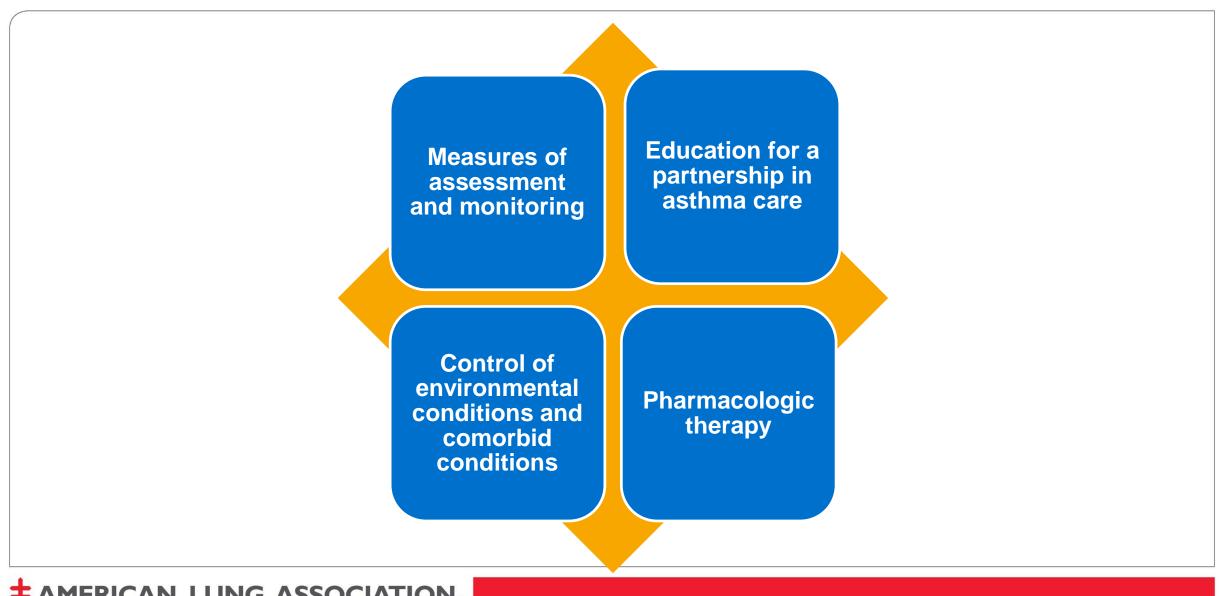


National Asthma Education And Prevention Program Expert Panel Report 3: Guidelines For The Diagnosis And Management Of Asthma

www.nhlbi.nih.gov/guidelines/asthma/asthgdln.htm

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FOUR COMPONENTS OF ASTHMA MANAGEMENT



AMERICAN LUNG ASSOCIATION®

SIX PRIORITY MESSAGES

Diagnosis and Management of

ASTHMA



Use Inhaled Corticosteroids



Use a Written Asthma Action Plan



Assess Asthma Severity



Assess and Monitor Asthma Control



Schedule Periodic Asthma Visits



Control Environmental Exposures

These priority messages are from National Heart, Lung, and Blood Institute's
National Asthma Education and Prevention Program
Guidelines Implementation Panel Report for EPR-3
www.nhlbi.nih.gov/guidelines/asthma/gip_rpt.htm

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ASSESSING ASTHMA SEVERITY

IMPAIRMENT

Current
frequency and
intensity of
symptoms and
functional
limitations

RISK

Future
likelihood of
asthma
exacerbations
and progressive
decline in lung
function over
time

National Asthma Education and Prevention Program. *Expert Panel Report 3: Guidelines for the Diagnosis and Management of Asthma* (EPR-3 2007). U.S. Department of Health and Human Services. Available at: http://www.nhlbi.nih.gov/guidelines/asthma/asthgdln.pdf. Accessed August 29, 2007.

SEVERITY

Diagnosis and Management of

ASTHMA









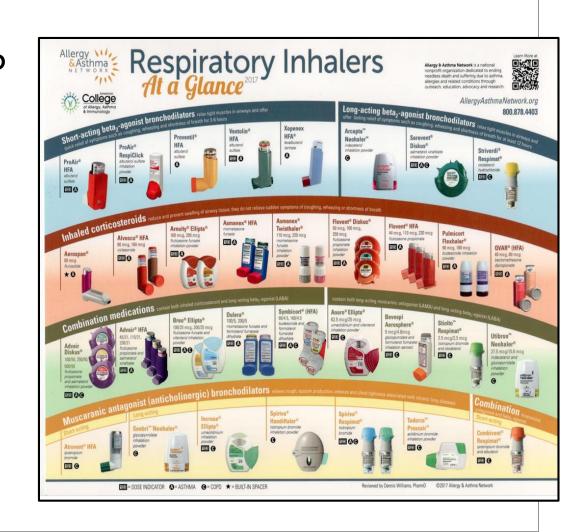




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STEPWISE TREATMENT OF ASTHMA

- Based on severity assessment the HCP will choose the appropriate medication
- For all patients with persistent asthma (mild-moderate-severe) the preferred first line treatment is to use a daily inhaled steroid
- Health Home Care Managers should ask what type of medication the member is taking and how often



ASTHMA MEDICATIONS

- Controllers (anti-inflammatory)
 - Help to prevent an asthma episode
 - Are taken daily
 - Does not eliminate the need for quick relief medications







lovent

Pulmicort

(





Singulair

Advair Diskus

- Quick relief medications (inhaled bronchodilators)
 - Fast-acting (RESCUE)
 - Relieve symptoms during an asthma episode
 - Are taken as needed



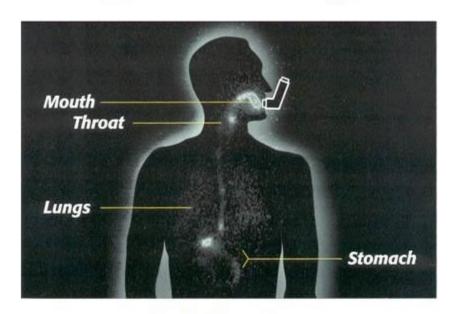
VALVED HOLDING CHAMBERS OR SPACERS

- The most effective way to deliver asthma medications when using an inhaled medication
- Slows down the speed of delivery such that there is medication deposition to the airways, rather than the posterior wall of the pharynx
- Decreases need for coordination between actuation and inhalation
- Mouth piece or face mask available: Must be a one way valved holding chamber



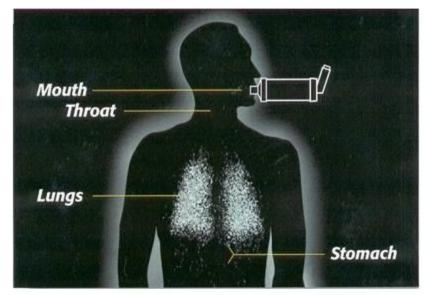


Why use a Spacer with an Inhaler?





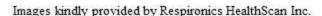
When an inhaler is used alone, medicine ends up in the mouth, throat, stomach and lungs.



Inhaler used with spacer device

When an inhaler is used with a spacer device, more medicine is delivered to the lungs.

[&]quot;Comparative respiratory deposition of ^{99m} Tc labeled particles of albuterol using a metered dose inhaler, a metered does inhaler with Aerochamber® spacer and OptiChamber® spacer in healthy human volunteers using gamma-scintigraphy," R. Beihn, PhD, Scintiprox, Inc., Indianapolis, IN and D. Doherty, MD, Dept. of Pulmonology, University of Kentucky Medical Center, Lexington, KY, 1997.





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ASTHMA



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ASTHMA ACTION PLANS

- Every child with asthma should have an action plan, especially those on more than one medication
- A copy should be kept with the medical provider, and provided to school/camp, coach, babysitter/care provider
- Empowers caregivers to administer rescue medications
- An asthma action plan should be created with the provider with input from the patient and the family
- Health Home Care Managers can be the bridge between the family and the provider to help develop an asthma action that works for them



ASTHMA ACTION PLANS

An action plan should contain:

- The frequency and dose of daily medications written in simple language
- The medications to add when a person starts having symptoms, including dose & frequency
- Signs and symptoms to monitor for
- An emergency contact number for the doctor
- Indications for when to go to the ER
- Permission for all medication use at school
- Permission for independent medication carry and use at school

Name		Date of Birth	Grade/Teacher
Health Care Provider		Hardin Core Providents Dilles Disease	Medical Record Number
		Health Care Provider's Office Phone	
Parent/Guardian		Phone	Alternate Phone
Parent/Guardian/Atternate Emergency Contact		Phone	Alternate Phone
DIAGNOSIS OF ASTHMA SEVERITY		ASTHMA TRIGGERS (Things That M	ake Asthma Worse)
☐ Intermittent ☐ Persistent [☐	Mild Moderate Severe]	Smoke Colds Exercis	e Animals Dust Foo
GREEN ZONE: GO!	Take These DAILY CONTR	OLLER MEDICINES (PREVENTION) Me	dicines EVERY DAY
You have ALL of these: Breathing is easy No cough or wheeze Can work and play Can sleep all night	No daily controller medicine Daily controller medicine Takeputi(s) or For asthma with exerciseputs with space ALWAYS RINSE YOUR MOU	(s):	MEDICINE.
YELLOW ZONE: CAUTION!	Continue DAILY CONTROL	LER MEDICINES and ADD QUICK-REL	EF Medicines
You have ANY of these: - Cough or mild wheeze - Tight chest - Shortness of breath - Problems sleeping, working, or playing	Take puffs every	if ordered and add this quick-relief medicine hours, if needed. Always use a sp nebulizer tree	inhaler
	If using quick-relief medicine	ot HELP within minutes, take it agai more than times in hours, t RE THAN 24 HOURS, CALL HEALTH CAR	CALL your Health Care Provider
RED ZONE: EMERGENCY!	If quick-relief medicine does n If using quick-relief medicine IF IN THE YELLOW ZONE MO	more than times in hours, (CALL your Health Care Provider E PROVIDER.
RED ZONE: EMERGENCY! You have ARY of these: • Very short of breath • Medicine is not helping • Breathing is fast and hard • Nose wide open, ribs showing, can't talk well • Lips or fingernails are grey or bluish	If quick-relief medicine does n If using quick-relief medicine i IF IN THE YELLOW ZONE MO Continue DAILY CONTROL Take puffs every Take a Other CALL HEALTH CARE PROVID	more than times in hours, RE THAN 24 HOURS, CALL HEALTH CAF LER MEDICINES and QUICK-RELIEF N hours, If needed. Always use a sp	CALL your Health Care Provider E PROVIDER. Iedicines and GET HELP! Inhaler Inhaler
You have ANY of these: Very short of breath Medicine is not helping Breathing is fast and hard Nose wide open, ribs showing, can't talk well Lips or fingernails are grey or bluish REQUIRED PERMISSIONS FOR A	If quick-relief medicine does not using quick-relief medicine of If using quick-relief medicine of If IN THE YELLOW ZONE MCCONTROL Take puffs every Take a Other CALL HEALTH CARE PROVID the contacted, CALL 911 FOR	nore than times in hours, IRE THAN 24 HOURS, CALL HEALTH CAP LER MEDICINES and QUICK-RELIEF N hours, if needed. Always use a sp nebulizer tree er again while giving quick-relief n an ambulance or go directly to the	CALL your Health Care Provider E PROVIDER. Iedicines and GET HELP! Inhaler Inhaler
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Acthma Action Plan

ACTIONS TO TAKE FOR AN ASTHMA ATTACK

- Have someone stay with the person
- Follow the person's Asthma Action Plan
- · Make certain quick relief medicine is available and used properly
- Observe person to ensure they improve
- Communicate with emergency contacts if the person with asthma is experiencing breathing difficulties

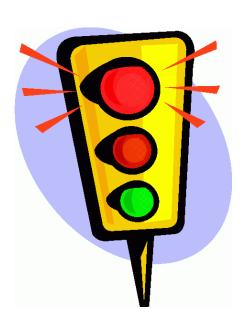


ACTIONS TO TAKE FOR AN ASTHMA EMERGENCY

- Have someone stay with the person
- If person does NOT have quick-relief medicine or the medication DOES NOT WORK – CHECK ASTHMA ACTION PLAN

OR

- Call 911 if:
 - Person cannot breathe
 - Struggling to breathe
 - Chest/neck are pulled in or sucked in with each breath
 - Trouble walking or talking
 - Nostrils wide open
 - Lips or fingertips are blue



Diagnosis and Management of

ASTHMA



Use Inhaled Corticosteroids



Use a Written Asthma Action Plan



Assess Asthma Severity



Assess and Monitor Asthma Control



Schedule Periodic Asthma Visits



Control Environmental Exposures



These priority messages are from National Heart, Lung, and Blood Institute's
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Guidelines Implementation Panel Report for EPR-3
www.nhlbi.nih.gov/guidelines/asthma/gip_rpt.htm

SCHEDULE FOLLOW-UP VISITS

- Schedule follow-up visits at periodic intervals to assess asthma control and modify treatment if needed
 - √ 1-6 months depending on control
 - ✓ 3-month intervals if step down in medication is anticipated
- Consider a patient reminder system for these visits



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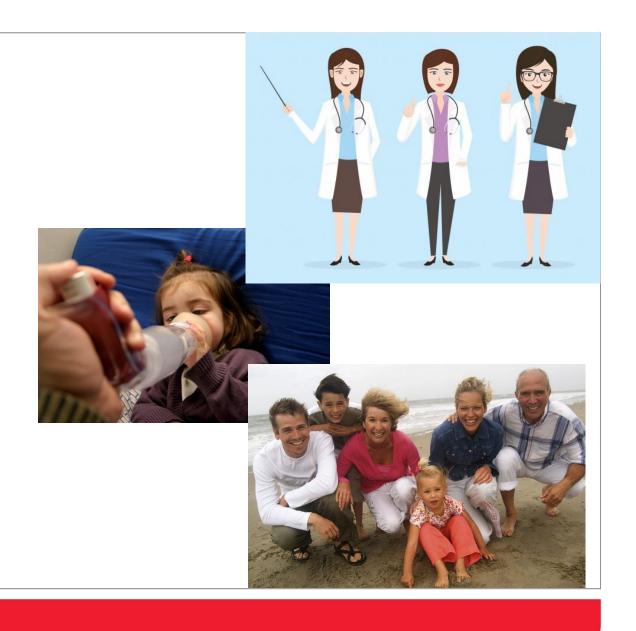
GOALS OF ASTHMA CONTROL

- ✓ Sleep through the night
- ✓ Not cough or wheeze during the day or night
- ✓ Be physically active
- ✓ Not miss school or work due to asthma
- ✓ Not have asthma-related visits to the emergency room
- ✓ Not have a hospitalization due to asthma



GOOD CONTROL DEPENDS ON

- Being able to get medical care
- Having good self-management skills
- Having good communication between a person with asthma and those around them



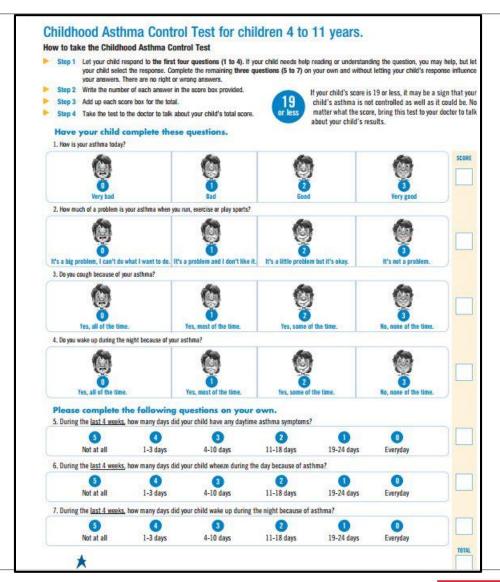
HOW DO YOU KNOW YOUR ASTHMA IS **NOT** IN CONTROL?

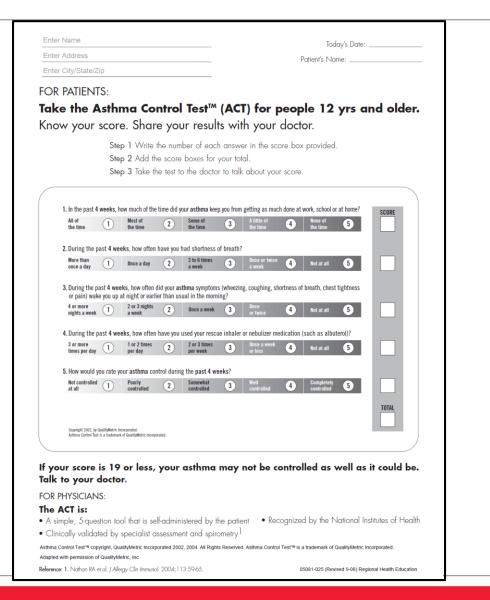
The Rules of Two

- Do you take your rescue inhaler more than TWO times per week?
- Do you awaken at night with asthma more than TWO times per month?
- Do you refill your rescue inhaler more than TWO times per year?

If you answer "YES" to any of these questions, speak to your HCP to discuss why your asthma may not be in good control.

AVAILABLE AT WWW.ASTHMA.COM





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CONTROL ENVIRONMENTAL EXPOSURES

- Review the environmental history of exposures
- Develop a multi-pronged strategy to reduce exposure to the patient's triggers



COMMON HOME TRIGGERS

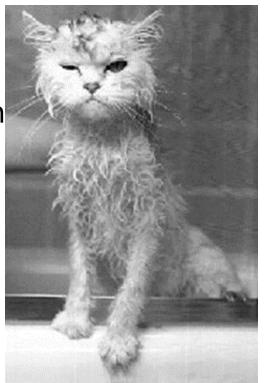


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ANIMAL ALLERGENS

All warm-blooded animals produce flakes of skin (dander), feces, urine and dried saliva that can cause allergic reactions.

- Best option Keep animals out of house
- If you can't keep the pet outside, keep it out of the bedroom and keep the door shut
- Wash hands and clothes after contact with the pet
- Remove upholstered furniture and carpets from the home or isolate the pet in areas without these items



DUST MITES

 Require humidity and human dander to survive, thrive in most areas of the US but usually not present in high altitudes or arid areas

High levels are found in bedding, pillows, mattress, upholstered

furniture, carpets, clothes and soft toys

IMPORTANT: Since the patient's bed is the most likely place for dust mites to be found this is the best place for trigger control measures

DUST MITES CONTROL MEASURES

- Encase the pillow and mattress in an allergen-impermeable cover
- Wash all bedding in hot (>130°F) water weekly*
- Keep humidity below 60% (ideally 30%-50%).
- Remove carpets from the bedroom
- Avoid sleeping or lying on upholstered furniture
- In children's beds, minimize the number of stuffed toys; each week, wash the toys in hot water or freeze them
- Room air filtration devices are not recommended to control dust mite exposure – the allergens are air-borne only briefly and not removed via air filtration.

(*Exposure to dry heat or freezing kills dust mites but does not remove the allergen.)

COCKROACH CONTROL MEASURES

- Keep counters, sinks, tables and floors clean and clear of clutter.
- Fix plumbing leaks and other moisture problems.
- Remove piles of boxes, newspapers and other items where cockroaches may hide.
- Seal all entry points.
- Make sure trash in your home is properly stored in containers with lids that close securely; remove trash daily.
- Try using poison baits, boric acid or traps first before using pesticide sprays.

Common Home Triggers: Irritants









Molds

Basements Bathrooms Smoke & Gases

Kerosene heaters

Wood stoves and/or Fireplaces

VOCs and Strong Smells

Hairspray, cooking spray & odors

Furniture polish

Tobacco Smoke

Secondhand smoke

Thirdhand smoke

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New carpets

MOLD CONTROL MEASURES

- Moisture control = mold control, so ACT QUICKLY.
 - If wet or damp materials or areas are dried 24-48 hours after a leak or spill, in most cases mold will not grow.
- Scrub mold off hard surfaces with detergent and water; dry completely.

Absorbent or porous materials, such as moldy ceiling tiles and carpet, may have to be thrown away.

Dehumidify basements if possible.

(SOURCE: A Brief Guide to Mold and Moisture in Your Home, EPA Publication #402-K-02-003.)

TOBACCO SMOKE CONTROL MEASURES

- If you smoke, ask for ways to help you quit. Ask family members to quit.
- Do not allow smoking in your home or car.
- Be sure no one smokes at your child's daycare or school.
- Advocate for smoke free workplaces.



SECONDHAND AND THIRDHAND SMOKE

 Exposure is linked to increased asthma symptoms, decreased lung function and greater use of health services among those who have asthma.

NEW YORK STATE

- Message to smokers Quit or at least smoke outside (may not adequately reduce exposure).
- Provide smoking cessation support if possible.
- Thirdhand smoke clings to clothes, furniture, drapes, walls bedding, carpets, vehicles and other surfaces long after smoking has stopped
 - Thirdhand smoke residue builds up over time

TECHNIQUES THAT MAY MODIFY INDOOR AIR

- Vacuum 1-2 times per week
 - Get someone else to do this if possible or wear a dust mask
- Damp mop
- Air conditioning during warm weather recommended for asthma patients
- Dehumidifiers to reduce house-dust mite levels in high-humidity areas
- HEPA filters to reduce airborne cat dander, mold spores and particulate tobacco smoke.
 - Not a substitute for more effective measures!

HEALTH HOME CARE MANAGERS ... FIRST LINE OF DEFENSE

- Work with children to find out when and where in the home they have more asthma symptoms
- Work with family members to examine household conditions
- Work to assist and link the family to available resources to make household modifications



OUTDOOR ENVIRONMENT

• Ask the patient:

"Is your asthma worse in spring, summer, fall or parts of the growing season?"

Pollen and Molds



- Avoid areas of high pollution; stay indoors on ozone alert days when possible.
- Do not use air cleaners that create ozone.

Ozone

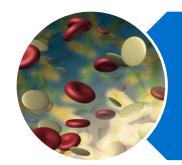


INFECTIONS

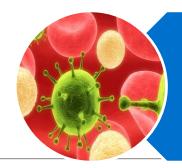


Viral respiratory infections

Respiratory infections can exacerbate asthma symptoms, particularly in children under age 10.



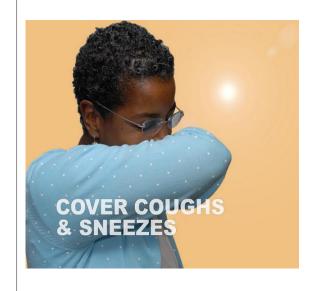
Bacterial infections



Infections such as Mycoplasma and Chlamydia may contribute to asthma exacerbations.

INFECTIONS

Respiratory infections are the #1 trigger for children with asthma



Keep hands away from face



Wash hands



Use separate towels



Get a flu shot

OTHER TRIGGERS

Strong Emotions



Exercise-Induced Asthma





Exercise may be a trigger for asthma, but asthma *should not* limit physical activity

Schools: Potential Concerns

- Poor indoor air quality
- Leaky roofs/wet carpeting = Molds
- New carpeting/chemicals = Toxic fumes
- Building repairs/renovationsDust
- Idling school busses =
 Diesel fumes
- Unventilated portable classrooms

- Fragrances (Magic Markers, air fresheners, art supplies)
- Animals in classroom
- Cleaning supplies
- Classroom environment (old carpeting, furniture)
- Insecticides, herbicides, fungicides
- Chalk dust, foods
- Access to medications
- Access to a school nurse

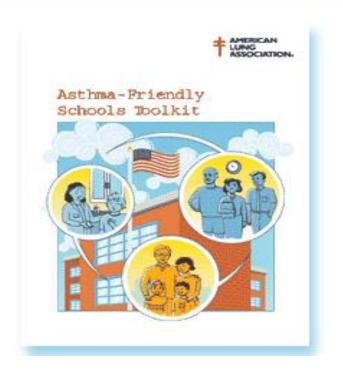
Asthma-Friendly School Checklist

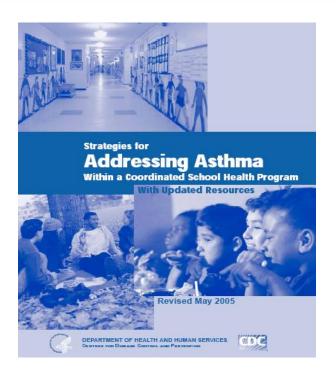
- Tobacco free campus? Good indoor air quality?
- Policy on inhalers?
- Written asthma emergency plan for teachers & staff?
- Updated asthma action plans for students with asthma on file at school?
- School nurse?
- Education for school staff/teachers about asthma?
- Degree of participation asthma student has in PE, sports, recess, field trips?

Health Home Care Managers can collaborate with the school to ensure a proper school environment and plan for the child AMERICAN LUNG ASSOCIATION.

60

Asthma-Friendly School Resources





It is recommended that a clinician prepare a written asthma action plan for the school setting. In addition to medications and emergency response, this plan should identify factors that make students' asthma worse so that the school may help avoid exposure.

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SUMMARY

- Asthma episodes <u>can</u> be prevented.
- When asthma symptoms go away, asthma is still there.
- Asthma is treatable. All episodes should receive immediate attention.
- A severe asthma episode <u>IS</u> an emergency!
- A person with mild asthma can suffer a fatal episode.

WHAT CAN A CARE MANAGER DO TO SUPPORT ASTHMA CONTROL?

A Health Home Care Manager can reinforce these key messages:

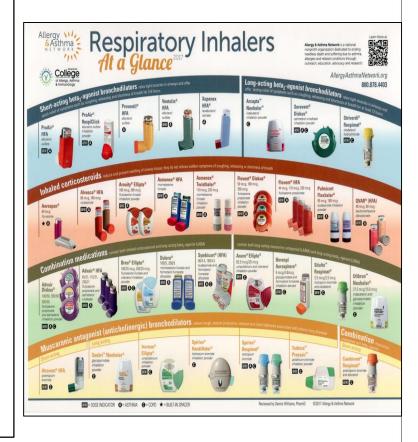
- People with asthma should always have their quick relief medication with them for relief of symptoms.
- Controller medications should be taken every day, even when feeling well, for people who have persistent asthma.
- It is important to identify asthma triggers and know how to avoid them.
- Good communication is essential for effective asthma management.
- With proper management, everyone with asthma can live active and healthy lives.

RESOURCES

AVAILABLE FREE THROUGH NYS DOH

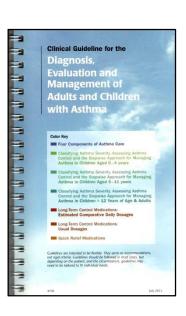


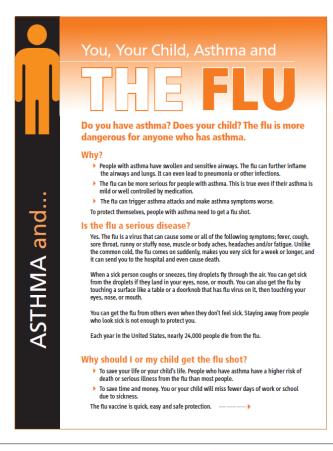




HERE'S HOW TO GET THEM...

For an electronic publication request form, go to: http://www.health.ny.gov/forms/order_forms/asthma.pdf





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NEW YORK STATE DEPARTMENT OF HEALTH ASTHMA PROGRAM PUBLICATION REQUEST FORM

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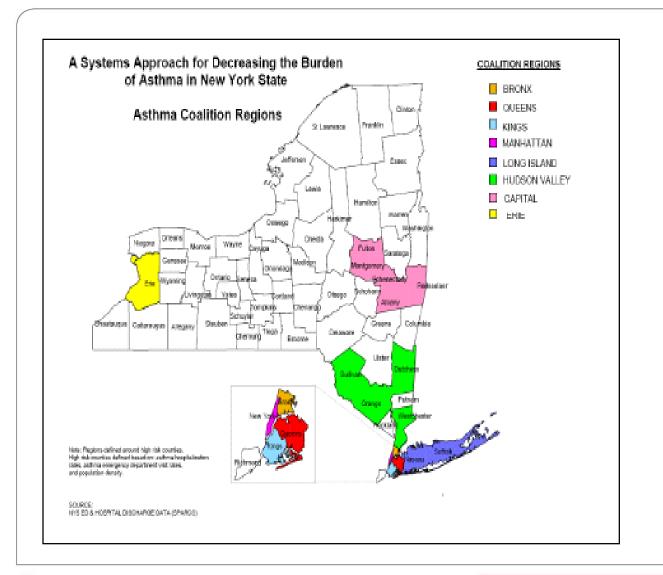
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Clinical Guideline for the Diagnosis, Evaluation and Management of Adults and Children w Asthma – 2008 The New York State consensus asthma guideline decision support tool is intended to assist clinician in applicancepts of the NAEPP Expert Panel Report-3 into practice.					ıg
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Publications are available free of charge to New York State residents and organizations.

Questions can be submitted to Asthma@health.state.ny.us.

OTHER RESOURCES







AMERICAN LUNG ASSOCIATION RESOURCES

FREE

- Questions about Lung Health?: 1-800-LUNGUSA
- Lungtropolis: video game for kids ages 5-10
- Asthma Basics: 50-minute online program
- Freedom from Smoking online
- Asthma Educator Institute (AEI)
- Open Airways For Schools
- Kickin' Asthma









QUESTIONS?