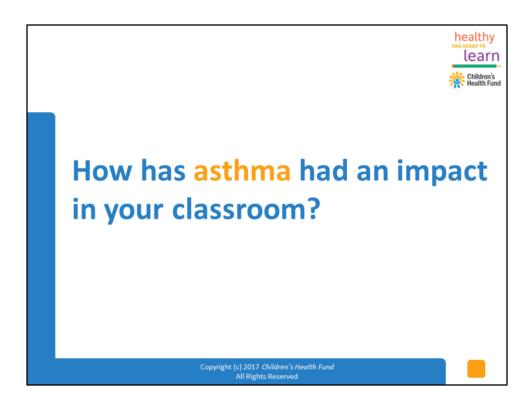


Managing Asthma in the Classroom

Professional Development

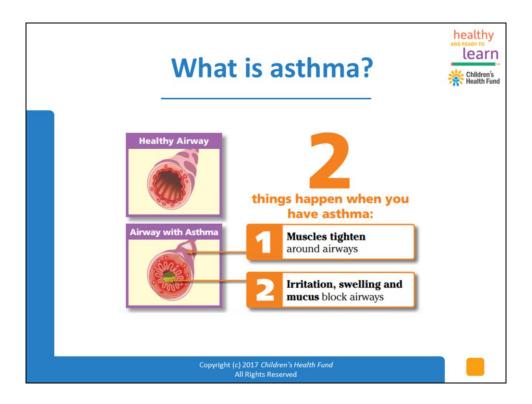
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Facilitator Notes: Have 2-3 educators discuss times when asthma has "disrupted" their classroom

Today's Objectives Understanding the effects of Asthma in the classroom Recognizing students with uncontrolled asthma Creating a trigger-free school environment

Facilitator Notes: In this session we will... (read through the takeways) click for bullet points



Facilitator Note:

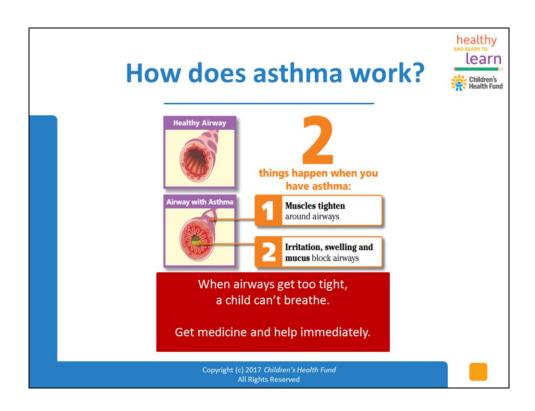
Asthma is a chronic disease of the lungs. If a student with asthma is exposed to certain triggers or irritants, symptoms may flare, making it difficult to breathe.

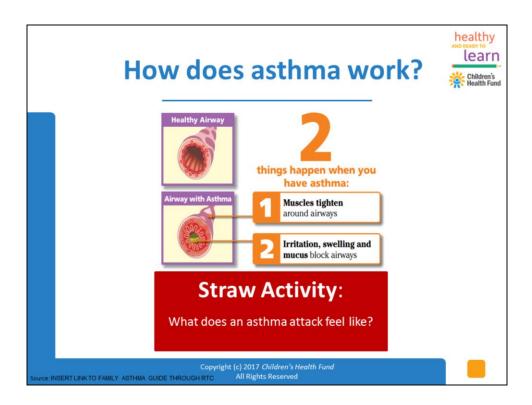
In asthma, 2 major things happen.

- 1) Muscle squeezing, which can happen suddenly-like in an asthma attack
- Irritation, swelling, and production of extra mucus-which can worsen over time if not treated, causing daily symptoms

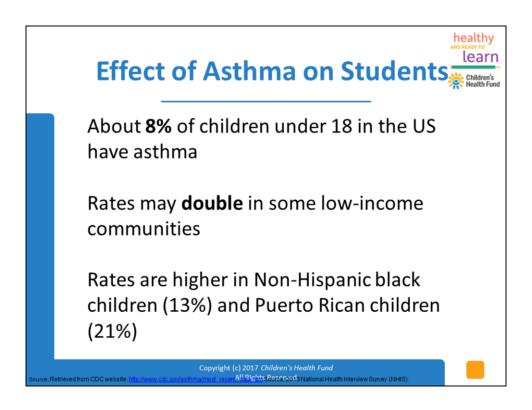
Asthma symptoms can come and go, but asthma is a chronic disease that can be managed but not cured. For some people, symptoms can become quite infrequent certain times of the year, as they get older, or when in environments with less triggers, but you don't out grow it and it doesn't go away. Asthmatics should be sure they still have access to their rescue inhaler even if they rarely have symptoms. (outgrowing asthma is a common myth we hear. A lot of people don't even realize that it is compromising them when it is very mild or intermittent)

Image: CHF Asthma Guide





Instruction: The objective of this activity is to see how it feels to have an asthma attack by breathing through a straw. Have participants take a straw. Have them plug their nose using their thumb and middle finger. Next have them blow air through the straw.



Retrieved from CDC website:

http://www.cdc.gov/asthma/most_recent_data.htm Source: 2013 National Health Interview Survey (NHIS).



Can anyone guess the rate of asthma in NYC?

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In New York City, 30% high school students in high-risk areas reported having current asthma or had asthma at some point in their lives

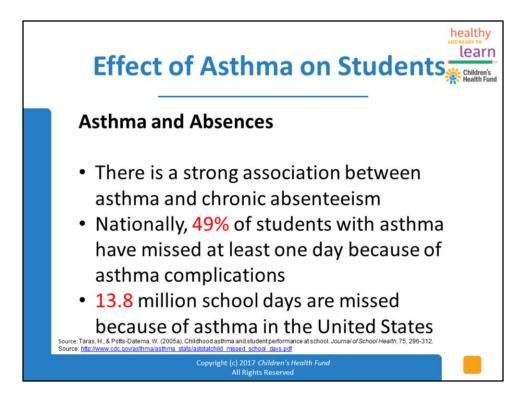
- South Bronx 35%
- North and Central Brooklyn 31%
- East and Central Harlem 31%

Source: New York City Department of Health and Mental Hygiene. Epiquery: NYC Interactive Health Data System - NYC Youth Risk Behavior Survey 2013. DATI VIEWED: February 29, 2016. http://nyc.gov/health/epiquery

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New York City Department of Health and Mental Hygiene. Epiquery: NYC Interactive Health Data System - NYC Youth Risk Behavior Survey 2013. DATE VIEWED: February 29, 2016. http://nyc.gov/health/epiquery



Asthma is a leading cause of absences from schools. Students who miss school because of uncontrolled asthma may fall risk of becoming chronically absent. However, if asthma is well managed, students can spend more time in the classroom.

Taras, H., & Potts-Datema, W. (2005a). Childhood asthma and student performance at school. *Journal of School Health*, 75, 296-312.

CDC Factsheet "Asthma-related Missed School Days among Children aged 5 – 17 Years."

Link: http://www.cdc.gov/asthma/asthma_stats/aststatchild_missed_school_days.pdf Source:

National Health Interview Survey (NHIS), 2003, 2008, 2013: question, "During the past 12 months, how many days of [daycare or preschool, school or work] did child miss because of his/her asthma?"

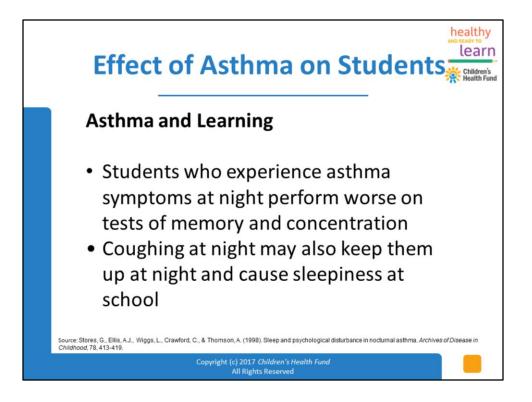
CDC Factsheet: Asthma-related Missed School Days among Children aged 5 – 17 Years.

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ays.pdf Source:

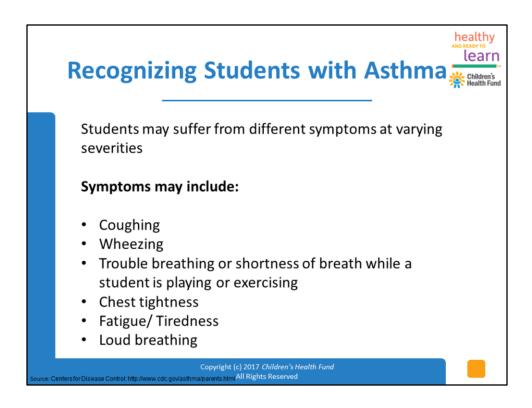
National Health Interview Survey (NHIS) 2013: question "During the past 12 months, how many days

of [daycare or preschool, school or work] did child miss because of his/her asthma?". Asked of children with current asthma as defined by which covers children (aged 5 through 17 years) who answered "yes" to the questions: "Have you ever been told by a doctor, nurse, or other health professional that you had asthma?" and "Do you still have asthma?".



Nocturnal asthma can affect a student's wellbeing the next day. Students may be fatigued or unfocused because of lack of sleep and lingering symptoms.

Stores, G., Ellis, A.J., Wiggs, L., Crawford, C., & Thomson, A. (1998). Sleep and psychological disturbance in nocturnal asthma. *Archives of Disease in Childhood*, 78, 413-419.



Symptoms in children could be mild or severe. Each student with asthma may not suffer from the same symptoms as his/her peer.

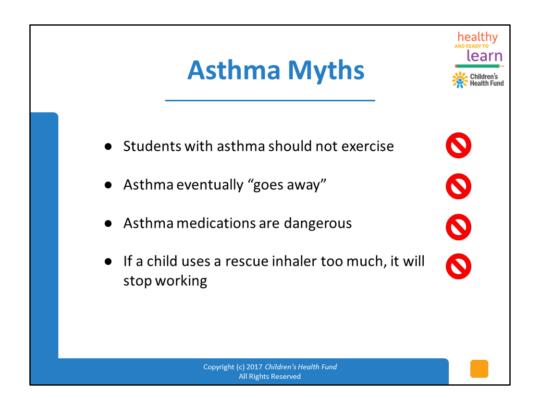
These are some symptoms that may be present in a child suffering from uncontrollable asthma. If you see a student suffer from one or more symptoms on a daily basis, you should see this as a red flag.

For some asthmatics, especially the younger ones, cough at night may be the only symptom they have, so their parents may not even realize they have asthma-but it can still be significantly disrupting their sleep





- The school nurse can help manage a student's asthma (with the right paperwork!)
- Help make sure families submit a signed MAF to the nurse so a student can be given asthma medication during school hours
- If you notice a student suffering from any signs and symptoms of asthma, send the student to the school nurse



There are some common myths about asthma that may affect how a student and their family perceives the condition.

"Students with asthma should not exercise" - Children with well controlled asthma can (and should!) exercise and play. You should encourage parents to talk to their child's doctor and the school nurse to make sure their asthma is controlled during the school day so students can play during gym class and recess.

"Asthma eventually "goes away" - Asthma may get better or worse as a child grows older. But, as a chronic disease, a child should keep visiting the doctor to make sure their asthma is well controlled.

"Asthma medications are dangerous" - A doctor will help but children on the right asthma medication regimen. Making sure you take the right medications at the right time will help students better control their asthma.



Triggers include:

Allergens (pollen, pets, dust, cockroaches/bugs in the home, and fungus spores)

Irritants (cold air, chalk dust, strong odors (like perfumes and markers), pesticides, weather changes, and smoke)

Respiratory infections (cold or the flu)

Physical exercise especially in cold weather**

**While physical exercise may be an asthma trigger, proper management and treatment options can ensure students are engaging in physical activity (which promotes healthy lifestyles!)

Image Source:

https://upload.wikimedia.org/wikipedia/commons/9/97/Asthma_triggers_2.PNG

Creating a Trigger-Free Environment



- Triggers make asthma symptoms flare up.
- Can be found both indoors and outdoors.
- Helping a student avoid triggers helps with asthma control.
- Encourage students to wash their hands to prevent the spreading of sicknesses

COMMON TRIGGERS

INDOOR

- Dust / dust mites
- · Cats, dogs, or other animals
- Rats or mice
- Cockroaches
 Mold

OUTDOOR

- Pollen
- Plants, flowers, grass, or trees
- · Changes in weather or seasons

IRRITANTS

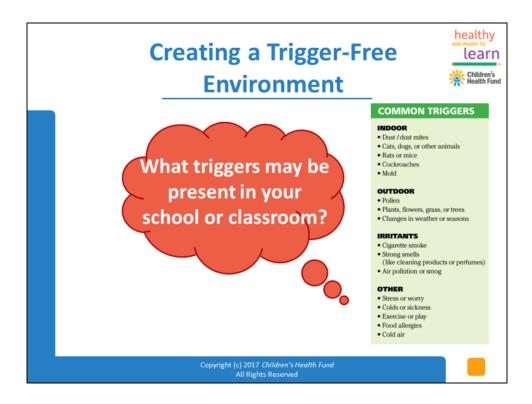
- Cigarotto emol
- Strong smells
- (like cleaning products or perfumes)
- · Air pollution or smog

OTHER

- Stress or worry
- · Colds or sickness
- Exercise or play
- Food allergiesCold air

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Facilitator Notes: Ask educators to think about what triggers could be present in the classroom or around the school.

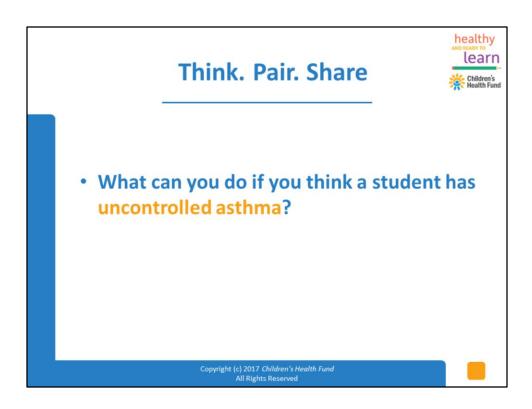
Creating a Trigger-Free Environment



- Limit exposure to common triggers in your classroom (including ones that may be on your person such as perfume or cat hair)
- Work with appropriate school staff and administrators to eliminate school-wide triggers

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Be aware of chalk dust, strong odors (even the perfumes/cologne you wear and makers you use!), animal dander if you have a class pet, and plants you may have around the classroom. If you see students reacting negatively to these triggers, exposure to the triggers should be limited or eliminated.



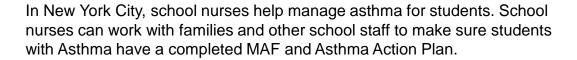
Have educators pair off into groups of two and three to discuss strategies for working with children with uncontrolled asthma.

What you can do



- Talk to your school nurse. The nurse can help work with the student's family and physician.
- Discuss triggers and ways you see asthma impacting students learning with parents (i.e. attendance, sleepiness)
- Observe students in your classroom who have asthma to better understand their individual triggers and symptoms

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Knowing which students have asthma and tracking their symptoms could help you understand if specific triggers are impacting your student's well being and worsening symptoms.

Today's Objectives Understanding the effects of Asthma in the classroom Recognizing students with uncontrolled asthma Creating a trigger-free school environment

Facilitator Notes: In this session we will... (read through the takeways) click for bullet points



(old pic) Source:

http://www.fda.gov/BiologicsBloodVaccines/ResourcesforYou/Consumers/ucm 345587.htm#vaccines

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Thank you!

If you would like to see other asthma resources or find information on additional Health Barriers to Learning, please visit the Healthy and Ready to Learn Resource and Training Center at www.hrl.nyc

www.hrl.nyo

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