Early Childhood Education Linkage System/ Healthy Child Care Pennsylvania PA Chapter, American Academy of Pediatrics Rose Tree Corporate Center II, Suite 3007 1400 N. Providence Road



Media, PA 19063

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January 2018

To: Pennsylvania Early Care and Education Staff

Re: Asthma Self-Learning Module for Early Care and Education Staff

Directions: Thank you for selecting this module to learn about asthma. Complete the following activities for this module:

- 1. Review the Self Assessment of the module before you begin. This is the information you will be asked to submit to earn credit for completing this module.
- Click here to access the California Childcare Health Program Training Curricula page. Click on the link for the Asthma Information Packet for Early Care and Education Providers. On this page, you will find links to the asthma video," Asthma Care Training for Child Care Providers" and the Asthma Information Handbook. Watch the 18 minute video and read the handbook. They are available in both English and Spanish.
- 3. Read and use the materials provided in this document packet.
- 4. Access and complete the Self-Assessment Questions on Survey Monkey by using this link: https://www.surveymonkey.com/s/CQNL22T OR fill out the Self-Assessment in this packet and return to ECELS using e-mail, fax, or mail.
- 5. Follow the instructions on the ECELS website self-learning module page in the box with the heading "Important Reminders" and then click in the green rectangle labeled "Click here to order SLM reviews" to pay the review fee.

ECELS staff members will review the work you send us and offer advice if you need help to complete the module successfully. If you have questions, please call or e-mail the ECELS office. Upon satisfactory completion of the module, ECELS will award (2) hours of professional development credit. You will then receive email confirmation with instructions on how to access your certificate from the PA Keys website. Processing takes approximately 3-6 weeks after submission of required documentation.

Sincerely,

Susan Aronson, MD, FAAP ECELS Pediatric Advisor

Nancy Alleman, BSN, RN, CRNP, CSN ECELS Lead T/TA Coordinator

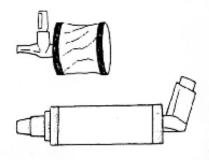
Training costs have been underwritten by the PA Department of Public Welfare, Office of Child Development and Early Learning.

ASTHMA EQUIPMENT



Metered Dose Inhaler

Delivers inhaled medication in a fine mist for immediate relief when asthma symptoms are present.



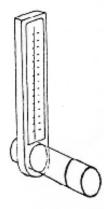
Inhaler with a Holding Chamber

An inhaler with a spacer or holding chamber to keep the inhaler the correct distance from the mouth. It also catches the mist and holds it so it can be breathed in slowly, enabling the maximum amount of medicine to reach the child's lungs. Used especially with young children.



Nebulizer

A machine that delivers medication in a fine mist that is prescribed for some children with asthma. A treatment usually takes 5 to 15 minutes.



Peak Flow Meter

A device to monitor the status of children with asthma, perhaps to decide whether a child should participate in a certain activity.

Additional Information

Peak Flow Meter

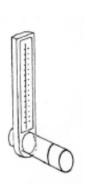
Introduction

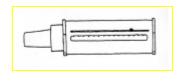
A peak flow meter is a hand held instrument, which measures the speed of the air as it passes through the hollow center of the meter. The scale on the outside of the barrel is marked in liters per minute. This is an indication of how well the lungs and airways are doing. Correct use of this tool will help someone with asthma know when to take medicine. Many children can learn to use a peak flow meter at age 4 or older.

How to use a Peak Flow Meter

Follow these step-by-step directions:

- Place one of the mouthpieces on the peak flow meter.
 Pick the smaller mouthpiece for young children.
- 2. Make sure that the indicator arrow or slide bar is at the bottom of the scale.
- 3. Hold the peak flow meter so that nothing blocks the opening.
- 4. Inhale as deeply as possible and grasp the mouthpiece, making sure the lips form a tight seal.
- 5. Blow out as hard and fast as possible through the mouth (not the nose). It should be a short, harsh breath. This will cause the indicator to move up the scale. The final position of the indicator is the peak flow score.
- 6. Slide the indicator to the bottom of the scale (zero). Repeat steps 3-5 to repeat the test.
- 7. Take three readings and record the highest value obtained along with the date and time.





Which inhaler do you use?

Metered Dose Inhaler

- Stand up straight.
- 2. Shake your inhaler.
- 3. Breathe out all the way.
- Put your inhaler through your teeth, with your tongue underneath.
- 5. Close your mouth around the inhaler.
- 6. Begin to breathe in <u>slowly</u> and deeply and press down on the inhaler at the same time.
- 7. Hold your breath 10 seconds.



- Stand up straight.
- 2. Shake your inhaler.
- Put the inhaler mouthpiece into the end of the spacer.
- 4. Breathe out <u>all the</u> way.
- 5. Put the spacer mouthpiece through your teeth, with your tongue underneath.
- 6. Close your mouth.
- 7. Begin to breathe in <u>slowly</u> and deeply and press down on the inhaler at the same time.
- 8. Hold your breath 10 seconds.

Metered Dose Inhaler with Spacer and Mask

- 1. Shake the inhaler.
- 2. Put the inhaler mouthpiece into the end of the spacer.
- Place the mask firmly over the child's nose and mouth. Make sure there is an airtight seal between the mask and the child's face.



- 4. Press down on the inhaler once.
- 5. Encourage the child to take at least 6 normal breaths.
- Don't lift the mask off the child's face until they breathe in the medicine.
- Remove the mask.
- Wait at least one minute before a second puff, if needed.

Pulmicort™ Turbuhaler

- Stand up straight.
- Hold the inhaler with the mouthpiece end up and the brown dial down.
 Never hold the inhaler with the mouthpiece down or the medicine may fall out.
- 3. Remove the cover.
- Twist the brown dial to the right as far as it will go, then back to the left until it clicks.
- Breathe out all the way.
- Turn the mouthpiece towards you. Put your mouth all the way around the mouthpiece.
- 7. Inhale <u>quickly</u> and deeply through the inhaler.
- 8. Hold your breath for 10 seconds.
- 9. Replace the cover on the inhaler.

Advair™ and Serevent™ Diskus

- Stand up straight
- . Hold the inhaler label flat between the fingers and thumb of one hand. Never hold the inhaler with the mouthpiece down or the medicine may fall out.



- With your other hand, slide open the inhaler using the notch on the side, so that the mouthpiece appears. Make sure the mouthpiece is facing towards you. Notice the small lever on the side.
- 4. Push the lever away from you until it clicks.
- Breathe out all the way.
- Put your mouth all the way around the mouthpiece.
- 7. Inhale <u>quickly</u> and deeply through the inhaler.
- 8. Hold your breath for 10 seconds.
- Close the inhaler by sliding the cover over the mouthpiece.



Keep track of how many puffs you have used. It is hard to tell when an inhaler is empty unless you count how many puffs you have used. The Diskus and Turbuhaler count the puffs for you in a small window on the inhaler.

DO NOT:

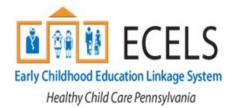
- Let your inhaler get wet. If it ever gets wet get a new one.
- Breathe out into the inhaler. Breathe in through your nose.
- Hold the inhaler with the mouthpiece down.

American Academy of Pediatrics, San Diego Chapter - May 2004

Medication Administration in School or Early Learning Programs Nebulizer treatments or inhaled medications

	Parent or Guardian Permission	1	
The parent/guardian of		ask that school/child ca	re staff give the
	s name)		
following medication(Nam	e of medicine and dosage)	at (Time)	
to my child, according to the Health Care F	-		
	_	·	l .
 The Program agrees to administer n It is the parent's responsibility to furr contact information up to date. 		•	
By signing this document, I give permission for my my child's health condition with Program staff.	child's health care provider/clinic to	share necessary information rega	rding the care of
Parent/Legal Guardian's Name	Parent/Legal Guardian Signature	 Date	
Home Phone	Work Phone		
ŀ	lealth Care Provider Author	ization	
Child's Name	Bir	thdate:	_
Name of inhaled medication:			_
Dosage:			
To be given in school/child care at the following t	ime(s):		
Note to health care provider: Specific time an school/child care to administer medication	d/or interval must be indicated on	this form in order for non-med	lical persons in
Start Date:	End Date:		_
Usual (baseline) respiratory rate for this child:			
Comments:			_
Seek Emergency Medical Care if the child has	s any of the following:		
 Respiratory rate greater than Coughs constantly Hard time breathing with: 			
Chest and neck pulled in with eachStruggling or gasping for breath	breath		
 Trouble walking or talking Lips or fingernails are grey or blue Other 			
Signature of Health Care Provider with Prescripti	ve Authority	Phone	_
	dapted from Healthy Child Care Colorado		
,			

NEBULIZER (OR INHALER TREATM	MENT LOG					
Child's Name					Classroom_	Classroom	
Medication and Dosage:					Time(s) to be given		
Special Inst	ructions:						
					4-6 hours unless the child's health care provider asks you to goy the health care provider.	give more freque	
Date	Time of Last Treatment	Time of Treatment	Breath Rate/Minute before tx.	Breath Rate/Minute after tx.	Observations (Cough, skin, color, secretions, any discomfort, activity level, etc)	Staff Initials	
Comments Staff Signa			Sta	ff Initials	Staff Signature	Staff Initials	
				Adapted from Hea	althy Child Care Colorado.		



Asthma Action Plan for a Young Child

Child's Name			Date	of	Birth
Addre	ess		Home P	hone () _	
City		State	Zip	code	
Diagr					
☐Food allergy – Specify					
□Other allernies-Specify					
Emergency Information					
Parent ContactP	referred Phone	e #	Other F	Phone #	
Address	City		State	Zip	
Physician Name			Phone		
Address					
Emergency Contact Name_			Phone		
Environmental Information					
Pets in your home? ☐ No ☐ Yes Specify _					
Smokers in family? ☐ No ☐ Yes Number _	<u> </u>				
Mother ☐ No ☐ Yes Father ☐ No ☐ Y					
Persons other than parents who care for your ch				-	
Exposure to smokers worsens asthma for childr	en. Contact y	our doctor foi	tips to quit or use	e the Center	for Disease
Control website, www.cdc.gov/tobacco/campaig	<u>n/tips/quit-sm</u>	noking/_or 1-8	800-QUIT-NOW.		
Asthma Triggers					
□Cold/Virus □Dust □Mold □Pollen/grass	s □Pets □	IExercise □	Weather □Othe	er	
Ç					
Medication(s) Given at Home:					

Quick Relief Medication to be given in child care if	symptoms listed below occur:
	I NOT TALK WELL or LIPS OR FINGERNAILS are ND PARENTS IMMEDIATELY.
Symptoms: New wheezing is heard (a noise heard when breathing out) New frequent cough with or without activity Chest retraction (sucking in at the base of the neck, between or below the ribs)	Shortness of breath or rapid breathing Complaint of chest tightness Additional warning signs:
Remove the child from any asthma triggers.Give medication listed below.	
Medications ☐ Inhaler with a spacer and mask (preferred for young child use of a spacer and inhaler in child care for easier and more	
☐ Albuterol Metered Dose Inhaler (Pro-air, Proventil or Ventolin): 2 puffs (wait one minute between puffs), may repeat once in 4 hours.	☐ Xopenex HFA Inhaler: 2 puffs (wait one minute between puffs), may repeat once in 4 hours. ☐ Other:
□ Nebulizer:	<u>'</u>
☐ Albuterol1.25mg2.5mg: 1 unit nebulized, may repeat once in 4 hours	□ Xopenex (Levalbuterol) 0.31 mg0.63mg1.25 mg: 1 unit nebulized, may repeat once in 4 hours □ Other:
 CALL 911 if symptoms worsen and parents or eme If quick-relief medication is used more than two day care provider about the need for additional medication. 	te pick-up if the child does not improve within 20 minutes. ergency contact cannot be reached. ys in one week, the parent should talk with the child's health tion. uction for correct use of specific equipment needed:
I give permission to(name of about how to care for my child's asthma with I have read and understand this asthma action plan.	of health care provider/practice) to share information (name of child care provider).
Parent's signature	Date
Physician signature	Date

Child's Name _____

This is one of many options for an Asthma Action Plan for health care providers to share information with child care providers. This plan is meant for children who need medication intermittently in child care. Another Asthma Action Plan is from the National Heart, Lung and Blood Institute and available at www.nhlbi.nih.gov

Child care provider signature_____

_Date _____

Taking Care of Children with Asthma in Early Learning Programs Self-Learning Module Self-Assessment

Name (Please p	rint.)Facility Name
Phone number	Director's Name
1What p a. b. c.	estions. Choose the best answer for each question. art of the breathing system is most involved during an episode of asthma? the windpipe. the diaphragm. the small and large tubes that connect the windpipe to the lung tissue. the voice box (the larynx).
2Which a. b. c. d.	the diaphragm spasms with breathing. the upper airways become inflamed and blocked.
a. b.	of the following is not a symptom of asthma? wheezing chest retractions sneezing coughing
a. b. c.	nave a child who is wheezing and working to breathe, the first thing the child needs to do is to rest until the symptoms pass. take the rescue medication recommended for the child. get the child's parent to come right away. call for emergency medical help (911).
a. b.	one of the following statements is correct about "asthma triggers" in children? A common cold can not trigger an asthma episode. Triggers vary for each child but most children have only one trigger Children with asthma should have furry pets. Exercise is an asthma trigger for some children; however exercise should not be avoided.
6Immed a. b. c. d.	iate relief of asthma symptoms is best accomplished by which one of the following treatments? sprinkled medicine in applesauce liquid medicine capsules or pills inhaled medicine
7Inhaler a. b. c. d.	s give better results when: the inhaler is used with a spacing device. the inhaler is kept in the mouth for at least 20 seconds. the child inhales before pressing the top of the medication canister. the child puts her head down to inhale.

Nan	ne	
8	 a. b.	rect procedure to use a nebulizer is to: connect the tubing, mouthpiece or mask and medicine chamber to the machine. check to see if mist is coming out before giving the mouthpiece or mask to the child. have the adult remain with the child during the entire treatment. all of the above
9	a. b. c.	flow meter is used to: control the flow of inhaled medicine during treatment. measure whether the child has trouble breathing right now. control the flow of oxygen from an oxygen mask. all of the above
10	a. b. c.	of the following is <i>not</i> an essential part of the asthma care plan? instructions about use of a peak flow meter. information about a child's asthma triggers. information about what to do if an episode of asthma occurs. information about whether the child's parents have asthma.
11	Long-te a. b. c. d.	rm control (preventive) medicines should: be used only when the child is wheezing at the time you give the medicine. be taken every day, even if the child has no symptoms, to reduce or prevent swelling of the airways. be stopped when the child feels better after an asthma episode. make a child feel better 10 minutes after taking the medicine.
12.	Please rea Johnny W file at the nose, and	Study and Care Plan Questions-The Care Plan which follows is to be used for this case study. ad the case study and Johnny Wheezer's Asthma Action Plan (following pages); answer questions 12 and 13. Theezer is 5 years old. He attends child care 5 days a week. He has asthma. He has an asthma care plan on child care facility from his health care provider. Today he is not feeling well. He has a slight cough, stuffy says, "My chest feels tight." His behavior is unusual, too. Normally he has lots of energy. In fact, he never However, today he is very quiet. Johnny acts this way when he is having an asthma episode.
	Today Joh usually 20	nnny's peak flow meter reading is 110, which is in the yellow zone. Johnny's personal best peak flow is 00.
12.	a. b. c.	the first thing to do for Johnny Wheezer? Have Johnny watch a movie. Call 911. Give albuterol, 2 puffs via his inhaler and notify his parents. Give Johnny a drink of water.
13		minutes after Johnny takes albuterol with his inhaler and spacer, he seems to be working hard to breathe to talk well; what should you do for Johnny?
		Have Johnny lie down and rest. Get emergency medical help (Call 911) and notify parents. Give another 2 puffs of albuterol. Give Johnny some fresh air.
14.	-	u have completed the Asthma Self-Learning Module, what does your child care program plan to do to improve asthmatic children?



Asthma Action Plan for a Young Child

Child's Name Johnny Wheezer	Date of Birth4-19-2013
Address_ 123 Circle Drive	
City Uptown State P	
Diagnosis <u>asthma</u> Other Medical Conditions <u>none</u>	
□Food allergy – Specify	
□Other allergies-Specify	
Emergency Information	
Parent Contact Mary Wheezer Preferred Phone # (215) 53:	
Address (above)City	StateZip
Physician Name Dr. Kidz	Phone
Address 456 Medical Drive City Uptown	
Emergency Contact Name Mrs. Sarah Dolly (neighbor)	Phone (215) 567-8910
Environmental Information	
Pets in your home? M No Yes Specify	
Smokers in family? A No See Number	
Mother X No ☐ Yes Father X No ☐ Yes Other X No ☐ Yes	s Specify
Persons other than parents who care for your child Susan Cobb	
Exposure to smokers worsens asthma for children. Contact your doctor for ti	·
Control website, www.cdc.gov/tobacco/campaign/tips/quit-smoking/ or 1-80	
Asthma Triggers	V
□Cold/Virus □Dust □Mold □Pollen/grass □Pets □Exercise □V	Veather
Modication(s) Civon at Homo:	
Medication(s) Given at Home: None	

Child's Name Jonnny vyneezer

Quick Relief Medication to be given in child care if symptoms listed below occur:

If a child is breathing HEAVY AND FAST and CAN NOT TALK WELL or LIPS OR FINGERNAILS are BLUE OR GRAY-CALL 911 AND PARENTS IMMEDIATELY.

Symptoms:

New wheezing is heard (a noise heard when breathing out)
New frequent cough with or without activity
Chest retraction (sucking in at the base of the neck, between or below the ribs)

Shortness of breath or rapid breathing Complaint of chest tightness Additional warning signs: cough with behavior change, audible

- Remove the child from any asthma triggers.
- Give medication listed below.

Medications

🗷 Inhaler with a <u>spacer and mask (</u> preferred for young children) or mouthpiece: Ask the health care provider abou
use of a spacer and inhaler in child care for easier and more effective delivery of inhaled asthma medication.

 ☑ Albuterol Metered Dose Inhaler (Pro-air, Proventil or Ventolin): 2 puffs (wait one minute between puffs), may repeat once in 4 hours. 	☐ Xopenex HFA Inhaler: 2 puffs (wait one minute between puffs), may repeat once in 4 hours. ☐ Other:			
□ Nebulizer:				
☐ Albuterol1.25mg2.5mg: 1 unit nebulized, may repeat once in 4 hours	☐ Xopenex (Levalbuterol)0.31 mg0.63mg1.25 mg 1 unit nebulized, may repeat once in 4 hours ☐ Other:			

- Call the parents to let them know you have given the medication.
- Call the parents or emergency contact for immediate pick-up if the child does not improve within 20 minutes.
- CALL 911 if symptoms worsen and parents or emergency contact cannot be reached.
- If quick-relief medication is used more than <u>two</u> days in one week, the parent should talk with the child's health care provider about the need for additional medication.
- Early education staff have received in-person instruction for correct use of specific equipment needed:
 Inhaler with spacer and mask or nebulizer. Yes X No No

I give permission to Dr. Kidz (name of health ca	re provid	der/practice) to share information
about how to care for my child's asthma with Playtime Early Learning	Center	(name of child care provider).
I have read and understand this asthma action plan.		
Parent's signature Mary Wheezer	Date	2-15-2017
Physician signature Dr. Qon Kids	Doto	2-15-2017
Physician signature 22. Jon 723	Date	<u>Z-13-2017</u>
Child care provider signature Lisan Coll	Date	2-16-2017

This is one of many options for an Asthma Action Plan for health care providers to share information with child care providers.

This plan is meant for children who need medication intermittently in child care. Another Asthma Action Plan is from the National Heart, Lung and Blood Institute and available at www.nhlbi.nih.gov