Poplar Bluff R-1 Schools Health Services

Agenda for Epi Pen Administration Training

- A. Overview of Training
- B. Food Allergy
- C. Insect Allergy
- D. Other Allergies
- E. Anaphylaxis
 Signs and Symptoms
- F. Treatment
- G. Health Care Plan
- H. School Policy and Procedure
- I. Documentation

Overview of Allergies and Anaphylaxis

Anaphylaxis

Some allergies such as food, medication, insect stings, and latex can trigger a severe, systemic allergic reaction called anaphylaxis. Anaphylaxis is a life-threatening allergic reaction that may involve systems of the entire body. Anaphylaxis is a medical emergency requiring immediate medical treatment and follow-up care by an allergist/immunologist. Deaths have occurred in schools because of delays in recognizing and responding to symptoms with immediate treatment and further medical interventions.

Food Allergy

Food allergy is a growing concern in the United States and creates a significant challenge for children in school. Increasing numbers of children are diagnosed with life-threatening food allergies (6 to 8 percent) that may result in a potentially life-threatening condition (anaphylaxis). Currently, there is no cure for life-threatening food allergies. The only way to prevent life-threatening food allergies from occurring is strict avoidance of the identified food allergen. Critical to saving lives are plans that include life-threatening food allergy education and awareness, avoidance of allergens, and immediate treatment of anaphylaxis.

The top eight most common food allergens are: milk, eggs, peanuts, tree nuts (such as pecans and walnuts), shellfish, fish, wheat, and soy, although an individual can have an allergy to any food. The most prevalent food allergens for children are milk, eggs, and peanuts; while for adults the most prevalent allergens are shellfish and peanuts. Children will frequently outgrow an allergy to eggs, milk, and soy. However allergies to peanuts, tree nuts, fish, and shellfish usually continue into adulthood. Not eating the foods the child is sensitive to is the only proven therapy at this time.

Insect Allergy

Insect allergy is an underreported event that occurs every year to many adults and children. Approximately three percent of adults and one to two percent of children may be at risk for anaphylaxis from insect stings. Stinging insects commonly include bees, hornets, yellow jackets, paper wasps, and fire ants. For most, complications include pain and redness at the bite site. However, some people have a true allergy to insect stings that can lead to life-threatening systemic reactions (anaphylaxis). In these cases, prompt management of the reaction is needed. Immunotherapy (allergy shots) is available for some types of stinging insects. Allergy shots reduce the risk of severe reactions.

Latex Allergy

Latex products such as balloons, gloves, and gym equipment are a common cause of allergic-type reactions. Two common types of reactions include contact dermatitis and immediate allergic reactions. Contact dermatitis, a type of localized allergic reaction to the skin, can occur on any part of the body that has contact with latex products, usually after 12-36 hours. Immediate allergic reactions however, are potentially the most serious for of allergic reactions to latex products. Exposure can lead to anaphylaxis depending on the amount of allergen exposure and the degree of sensitivity. Students with latex allergies may also need to avoid certain foods including many fruits such as bananas, kiwi, avocado, and papaya. Latex should be avoided by students and staff at risk for anaphylaxis. Since the reactions caused by latex vary, each student at risk should be evaluated by the student's healthcare provider.

Symptoms of Anaphylaxis

In some individuals, symptoms may appear in only one body system such as the skin or lungs, while in others, symptoms appear in several body systems. The symptoms range from mild to life-threatening and may quickly become life-threatening depending upon the sensitivity of the individual and the amount of allergen exposure. Prior reactions are the best predictor of the severity of future reactions, but no one can predict with certainty how a reaction will occur or progress.

Life-threatening anaphylaxis symptoms usually happen within the first 20 minutes of exposure. Sometimes, however, the symptoms subside, then return hours later. In some cases, serious reactions might take hours to become evident. Food is the leading cause of anaphylaxis in children. Children who have asthma and food allergies are at a greater risk for anaphylaxis and may often react more quickly requiring aggressive and prompt treatment.

Signs and symptoms of harmful reactions may include any or several of the following and may Require immediate emergency treatment:

Skin

- Hives, skin rashes, or flushing
- Itching/tingling/swelling of the lips, mouth, tongue, throat
- · Nasal congestion or itchiness, runny nose, sneezing
- · Itchy, teary, puffy eyes

Respiratory

- · Chest tightness, shortness of breath, wheezing or whistling sound
- Hoarseness or choking

Gastro-Intestinal

- Nausea, vomiting, dry heaves
- · Abdominal cramps or diarrhea

Cardiovascular

- · Dizziness, fainting, loss of consciousness
- Flushed or pale skin
- Cyanosis (bluish circle around lips and mouth)

Mental/Psychological

- Changes in the level of awareness
- A sense of impending doom, crying, anxiety
- Denial of symptoms or severity

More subtle symptoms of a severe reaction may include:

- · Screaming or crying
- Very young children will put their hands in their mouth or pull at their tongues

Treatment

Anaphylaxis is a potentially life-threatening condition, requiring immediate medical attention. Most fatalities occur due to delay in delivery of the needed medication. Although many Medications may be used for treating anaphylaxis, epinephrine is the life-saving medication that must be given immediately to avoid death.

APPENDIX

HOW TO READ FOOD LABELS

HOW TO READ A LABEL for a MILK-FREE DIET

Avoid foods that contain milk or any of these ingredients:

artificial butter flavor butter, butter fat, butter oil

buttermilk

casein (casein hydrolysate) caseinates (in all forms)

cheese cream

cottage cheese

curds custard ghee

half & half

lactalbumin, lactalbumin phosphate

lactoferrin lactulose milk (in all forms including condensed, derivative, dry, evaporated, goat's milk and milk from other animals, lowfat, malted, milk fat, non-fat, powder, protein, skimmed, solids, whole)

nisin nougat pudding rennet casein

sour cream, sour cream solids

sour milk solids whey (in all forms)

yogurt

May indicate the presence of milk protein:

caramel candies

chocolate

flavorings (including natural and artificial)

high-protein flour lactic acid starter culture

lactose

luncheon meat, hot dogs, sausages

margarine

non-dairy products

HOW TO READ A LABEL for an EGG-FREE DIET

Avoid foods that contain eggs or any of these ingredients:

albumin (also spelled as albumen)

egg (dried, powdered, solids, white, yolk)

eggnog

lysozyme

mayonnaise

meringue (meringue powder)

surimi

May indicate the presence of egg protein:

flavoring (including natural and artificial)

lecithin macaroni

marzipan

marshmallows

nougat

pasta

Avoid foods that contain wheat or any of these ingrebran bread crumbs bulgur couscous cracker meal durum farina flour (all purpose, bread, durum, cake, enriched, graham, high gluten, high protein, instant, pastry, self-rising, soft wheat, steel ground, stone ground, whole wheat) May indicate the presence of wheat protein:	gluten kamut matzoh, matzoh meal (also spelled as matzo) pasta pasta seitán semolina spelt vital gluten wheat (bran, germ, gluten, malt, sprouts) wheat grass whole-wheat berries
flavoring (including natural and artificial) hydrolyzed protein soy sauce starch (gelatinized starch, modified starch, modified food starch, vegetable starch, wheat starch) surimi	

HOW TO READ A LABEL for a PEANUT-FR Avoid foods that contain peanuts or any of these in	gredients:
artificial nuts beer nuts cold pressed, expelled, extruded peanut oil goobers ground nuts mixed nuts	monkey nuts nutmeat nut pieces peanut peanut butter peanut flour
May indicate the presence of peanut protein:	
African, Asian (especially Chinese, Indian, Indonesian, Thai, and Vietnamese), and Mexican dishes	Mandelonas are peanuts soaked in almond flavoring.
baked goods (pastries, cookies, etc.) candy (including chocolate candy) chili egg rolls	Studies show that most allergic individuals can safely eat peanut oil (<i>not</i> cold pressed, expelled, or extruded peanut oil).
enchilada sauce flavoring (including natural and artificial)	Arachis oil is peanut oil.
marzipan mole sauce nougat	Experts advise patients allergic to peanuts to avoid tree nuts as well.
	A study showed that unlike other legumes, there is a strong possibility of cross-reaction between peanuts and lupine.
	Sunflower seeds are often produced on equipment shared with peanuts.

Avoid foods that contain nuts or any of these ing almonds	
artificial nuts	natural nut extract (i.e., almond, walnut)
	nougat
Brazil nuts	nut butters (i.e., cashew butter)
caponata	nut meal
cashews	nutmeat
chestnuts	nut oil
filbert/hazelnuts	nut paste (i.e., almond paste)
gianduja (a nut mixture found in some	pecans (Mashuga Nuts®)
chocolate)	pesto
hickory nuts	pine nuts (also referred to as Indian, piñon,
maaadamia nuts	(insertigence to as matan, pinon,

macadamia nuts
marzipan/almond paste
nan-gai nuts

pine nuts (also reference)
pistachios
pralines
pralines
walnuts

Mandelonas are peanuts soaked in almond flavoring.

Mortadella may contain pistachios.

Natural and artificial flavoring may contain tree nuts.

Experts advise patients allergic to tree nut butters (i.e., cashew butter) to avoid peanuts as well.

Talk to your doctor if you find other nuts not listed here.

hydrolyzed soy protein natto soy (soy albumin, soy fiber, soy flour, soy grits, soy milk, soy nuts, soy sprouts) soya soybean (curd, granules)	soy protein (concentrate, isolate) soy sauce Tamari Tempeh textured vegetable protein (TVP) tofu
May indicate the presence of soy protein:	
Asian cuisine flavoring (including natural and artificial) vegetable broth vegetable gum vegetable starch	Studies show most individuals allergic to soy may safely eat soy lecithin and soybean oil.

abalone	redients:
clams (cherrystone, littleneck, pismo, quahog)	octopus
cockle (periwinkle, sea urchin)	oysters
crab	prawns
crawfish (crayfish, ecrevisse)	scallops
lobster (langouste, langoustine, scampo, coral,	shrimp (crevette)
tomalley)	snails (escargot)
mollusks	squid (calamari)
May indicate the presence of shellfish protein:	
bouillabaisse	Keep the following in mind:
cuttlefish ink	
fish stock	Any food served in a seafood restaurant may be
flavoring (including natural and artificial)	cross-contaminated with fish or shellfish.
seafood flavoring (such as crab or clam extract)	
surimi	For some individuals, a reaction may occur from
	cooking odors or from handling fish or shellfish.
	Always carry mediactions and use the
	Always carry medications and use them as soon as symptoms develop.

Calories 38 Calories from Total Fat 0g Saturated Fat 0g Cholesterol 0g Sodium 0g Total Carbohydrate 0g Dietary Fiber 0g Sugars 0g Protein 0g Vitamin A 270% ¥ Vitamin C 10% Calcium 2% ¥ Iron 0% Percent Daily Values are based on a 2,000 diet. Your daily values may be higher or lowed depending on your calorie needs: Calories 2,000 Total Fat Less than 65g Sat Fat Less than 20g	Nutri Serving Size			a	CIS	
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Protein 0g Vitamin A 270% ¥ Vitamin C 10% Calcium 2% ¥ Iron 0% Percent Daily Values are based on a 2,000 diet. Your daily values may be higher or lowed depending on your calorie needs: Calories 2,000 Total Fat Less than 65g Sat Fat Less than 20g	Dietary Fibe	er 0g			8%	,
Vitamin A 270% ¥ Vitamin C 10% Calcium 2% ¥ Iron 0% Percent Daily Values are based on a 2,000 diet. Your daily values may be higher or lowed depending on your calorie needs: Calories 2,000 Total Fat Less than 65g Sat Fat Less than 20g	Sugars 0g					_
Calcium 2% ¥ Iron 0% Percent Daily Values are based on a 2,000 diet. Your daily values may be higher or lowed depending on your calorie needs: 2,000 Calories 2,000 Total Fat Less than 65g Sat Fat Less than 20g	Protein 0g					
Calcium 2% ¥ Iron 0% Percent Daily Values are based on a 2,000 diet. Your daily values may be higher or lowed depending on your calorie needs: Calories 2,000 Total Fat Less than 65g Sat Fat Less than 20g	Vitamin A 270	% ¥	Vitan	nin C	10%	
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Total Fat Less than 65g Sat Fat Less than 20g	diet. Your daily	values ma our calori	ay be hi e need:	igher o s:	rlower	
Sat Fat Less than 20g	Total Fat	Less t	nan		80g	
Ot 1	Sat Fat	Less t	nan		80g	
LCGS than Storing	Cholestero	Less ti	nan	300m	ig 300m	g
			nan	2,400	mg 2,400	mg
al Carbonydrate 300g	al Carbohydrate				375g	

Any SEVERE SYMPTOMS after suspected or known ingestion:

One or more of the following:

LUNG: Short of

Short of breath, wheeze, repetitive cough

HEART: Pale, blue, faint, weak pulse, dizzy,

confused

THROAT: Tight, hoarse, trouble breathing/swallowing

MOUTH: Obstructive swelling (tongue and/or lips)

SKIN: Many hives over body

Or combination of symptoms from different body areas:

SKIN:

Hives, itchy rashes, swelling (e.g., eyes, lips)

GUT: V

Vomiting, crampy pain

MILD SYMPTOMS ONLY:

MOUTH:

Itchy mouth

SKIN:

A few hives around mouth/face, mild itch

GUT: Mild nausea/discomfort



1. INJECT EPINEPHRINE IMMEDIATELY

- 2. Call 911
- Begin monitoring (see box below)
- 4. Give additional medications:*
 - -Antihistamine
 - -Inhaler (bronchodilator) if asthma

*Antihistamines & inhalers/bronchodilators are not to be depended upon to treat a severe reaction (anaphylaxis). USE EPINEPHRINE.

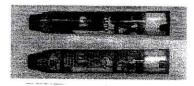


1. GIVE ANTIHISTAMINE

- Stay with student; alert healthcare professionals and parent
- If symptoms progress (see above), USE EPINEPHRINE
- Begin monitoring (see box below)

DIRECTIONS FOR USE

- REMOVE AUTO-INJECTOR FROM CARRIER TUBE BEFORE USE.
- NEVER PUT THUMB, FINGERS OR HAND OVER ORANGE TIP.
- NEVER PRESS OR PUSH ORANGE TIP WITH THUMB, FINGERS OR HAND.
- . THE NEEDLE COMES OUT OF ORANGE TIP.
- DO NOT REMOVE BLUE SAFETY RELEASE UNTIL READY TO USE.
- · DO NOT USE IF SOLUTION IS DISCOLORED.
- DO NOT PLACE PATIENT INSERT OR ANY OTHER FOREIGN OBJECTS IN CARRIER WITH AUTO-INJECTOR, AS THIS MAY PREVENT YOU FROM REMOVING THE AUTO-INJECTOR FOR USE.



TO USE AUTO-INJECTOR:



- Grasp unit with the orange tip pointing downward.
- 2. Form fist around the unit (orange tip down).
- 3. With your other hand, pull off the blue safety release.



 Hold orange tip near outer thigh.





- 5. Swing and firmly push against outer thigh until it clicks so that unit is perpendicular (at 90° angle) to the thigh.
- 6. Hold **firmly against thigh** for approximately 10 seconds to deliver drug. (The injection is now complete. The window on auto-injector will be obscured.)

(Auto-injector is designed to work through clothing.)



- Remove unit from thigh (the orange needle cover will extend to cover needle) and massage injection area for 10 seconds.
- Call 911 and seek immediate medical attention.
- Take the used auto-injector with you to the hospital emergency room.

TO REMOVE AUTO-INJECTOR FROM THE CARRIER TUBE:



1. Flip open the yellow cap of the EpiPen® or the green cap of the EpiPen® Jr Auto-Injector carrier tube.



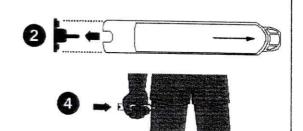
2. Remove the EpiPen® or EpiPen® Jr Auto-Injector by tipping and sliding it out of the carrier tube.



FOOD ALLERGY & ANAPHYLAXIS EMERGENCY CARE PLAN

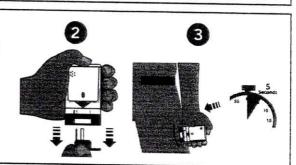
EPIPEN® (EPINEPHRINE) AUTO-INJECTOR DIRECTIONS

- 1. Remove the EpiPen Auto-Injector from the plastic carrying case.
- 2. Pull off the blue safety release cap.
- 3. Swing and firmly push orange tip against mid-outer thigh.
- 4. Hold for approximately 10 seconds.
- 5. Remove and massage the area for 10 seconds.



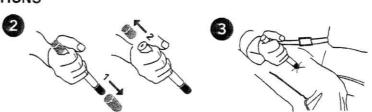
AUVI-Q™ (EPINEPHRINE INJECTION, USP) DIRECTIONS

- Remove the outer case of Auvi-Q. This will automatically activate the voice instructions.
- 2. Pull off red safety guard.
- 3. Place black end against mid-outer thigh.
- 4. Press firmly and hold for 5 seconds.
- 5. Remove from thigh.



ADRENACLICK®/ADRENACLICK® GENERIC DIRECTIONS

- 1. Remove the outer case.
- 2. Remove grey caps labeled "1" and "2".
 - Place red rounded tip against mid-outer thigh. Press down hard until needle penetrates.
- 5. Hold for 10 seconds. Remove from thigh.



OTHER DIRECTIONS/INFORMATION (may self-carry epinephrine, may self-administer epinephrine, etc.):

Treat student before calling Emergency Contacts. The first signs of a reaction can be mild, but symptoms can get worse quickly.

EMERGENCY CONTAC	CTS — CALL 911	OTHER EMERGENCY CONTACTS	_
RESCUE SQUAD:		NAME/RELATIONSHIP:	
DOCTOR:	PHONE:	PHONE:	
PARENT/GUARDIAN:	PHONE:	NAME/RELATIONSHIP:	
		PHONE:	

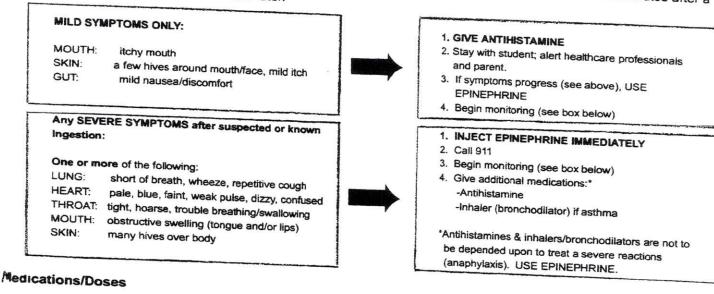


Poplar Bluff R - 1 Schools **Nursing Department**

Standing Order for use of Epi-Pen

in the event of anaphylaxis of a pupil or adult, an Epi-Pen will be administered by the school nurse or trained personnel according to procedure. Training will be provided to unlicensed personnel by a Registered Nurse.

Definition: Anaphylaxis is a severe allergic reaction which can be life threatening. It may occur within minutes after a



Antihistamine: Follow label instructions for weight and age, make sure person is not allergic to medication. 1.

- Immediate assessment of respiratory condition.
- 2. Call 911.
- 3. Call school nurse if available.
- 4. Select Epi-Pen or Epi-Pen Junior based on weight of patient.

Epi-Pen Junior for patient 65 lbs or less, Regular Epi-Pen for greater than 65 lbs.

5. Inject Epi-Pen: Pull of gray cap.

Swing and jab firmly into upper, outer bare thigh, or through clothing if necessary. Hold in place for 10 seconds.

Remove and massage area.

- Document time given.
- Monitor patient closely until arrival of ambulance.
- 8. Start CPR if needed.
- 9. Contact parents and Health Coordinator.

Monitoring: Stay with student and monitor breathing. Document any medication given orally or injected. Give full report

Physicians signature	date
	uate

Poplar Bluff R-1 Schools Benadryl and Epi Pen Administration Report

This form needs to be completed if an Epi Pen or Benadryl is given to a student or staff member and returned to the Health Coordinator's office within 2 days of administration. A phone call should be made immediately.

Name:						_ Date:	
School:						Time:	
Please answer the f							
	0 1				Yes	no	
Diagnosis or	history of	asthma		20	()	()	
Diagnosis or	history of	an allergy			()	()	
Did person l	77				()	()	
Did person h				rvl order	()	()	
Was parent				,	()	()	
Was 911 cal	led				()	()	
Was Health	coordinato	r called			()	()	
Location of person	when symn	toms dav	alono	d·			
- F	en symp	coms devi	riohe	u			
Was there a trigger Symptoms:							
Epi Pen or Benadryl	administer	ed by:					ě.
Locations of patient	when Epi P	en was a	dmini	stered:			
DISPOSITION:							
Transferred to ER:	Yes ()	No()	Di	scharged af	ter		hours
Hospitalized:	Yes ()	No ()	Di	scharged af	ter		hours. days.
	-						_ uays.
OUTCOME:							
Form Completed by:	li						ate:

Delegating Epi Pen Administration

	Initial Training	Return Demo	Update	
Stay with student and check for Benedryl allergies per parent or record.	Training		-	++
Give Antihistamine (Benedryl) per label instructions for age and weight				
If symptoms progress, Give Epi Pen – see instructions below.				
wheezing, cough, pale, blue, weak pulse, dizzy, difficulty stchy rashes, etc	Initial Training	Return Demo	Update	VOID
eview signs and symptoms of life threatening allergic eaction/anaphylaxis				
ocate student's Health Care Plan and Enj Pen if applicable. Use				
chool's standing orders and Epi Pen if warranted- choose correct Pen				
Leview Criteria for giving Epi Pen, have another adult call 911, parents, and Health Coordinator.				
erform five "Rights"				
Right Person- make sure the Epi Pen you have is for that student Right Drug - Check Epi Pen label for correct student Right amount - Check label and compare to order Right time- make sure symptoms and orders warrant administration Right method of administration - follow procedure				
erform Epi Pen injection procedure: . Choose correct Pen, based on weight, 65 lbs or less Epi Pen Jr. . Pull off blue safety cap				
Swing and jab firmly into upper thigh or through clothing if needed Hold into place for 10 seconds Remove Pen and massage area.				
. Handle the Pen carefully due to the needle being exposed. Send it to ER with the student.				
ocument time given and reassure student				-
onitor student carefully for breathing difficulties.				

Registered Nurse Signature

Date

Trained Personnel Signature