



GET TRAINED®



Get Trained 2016 Updates

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It's time for all school staff to GET TRAINED to administer an epinephrine auto-injector in an emergency!

What Would You Do?

- Bianca has a bee sting allergy
- Her class is on a field trip
- She tells the teacher that she was stung -
 - The teacher sees that she is pale and can hear that she is wheezing
 - Her tongue starts to swell, she gasps for air
 - Bianca is experiencing anaphylaxis



You have moments to react

- Bianca is having a life-threatening allergic reaction
- Without prompt treatment with a drug called epinephrine, Bianca could die within minutes
- Do you know what to do?
- Do you know how to give epinephrine?

Objectives

- Learn the signs and symptoms of anaphylaxis
- Have the skills to administer an epinephrine autoinjector
- Review the use of an Emergency Care Plan in responding to a student health emergency

Learn to save the life of a child like Bianca!



What is Anaphylaxis?



What is an allergic reaction?

- An allergy occurs when the immune system mistakenly attacks a food protein or normally harmless substance - it perceives the food or substance as a harmful or foreign one
- Exposure to the offending food or allergen may trigger the sudden release of chemicals, including histamine, resulting in symptoms of an allergic reaction
- The symptoms may be mild or severe may progress over minutes or hours

Allergic Reactions

- Common things people are allergic to (allergens) include:
 - Bee stings
 - Latex
 - Food Allergies most common allergens:

Peanut	Tree nuts (walnuts, cashews, pecans, etc.)
Milk	Egg
Wheat	Soy
Fish	Shellfish

Allergic Reactions

Mild

- Usually only mild skin symptoms
- Don't tend to have trouble breathing
- May be treated with antihistamines

Life-Threatening (Anaphylaxis)

- Difficulty breathing or feeling faint
- Often multiple body systems involved
- Treatment = Epinephrine NOW

Important to make the distinction based on the signs and symptoms seen in a student!

Anaphylaxis ("an-a-fi-LAK-sis")

- Anaphylaxis is a severe allergic reaction that can be life-threatening in a matter of minutes
 - Almost always unanticipated
- It must be treated immediately
- The drug of choice is epinephrine
- The time to learn how to give life-saving medication is NOW- it needs to be given without delay

It's time to GET TRAINED!

Sicherer & Simons, 2007 Schoessler & White, 2013

Allergic Management

- Preventing an exposure is key
- For students with a diagnosed allergy:
 - Know who can help!
 - √ Talk to your school nurse or healthcare coordinator
 - Know how to react!
 - √ Know the signs and symptoms of anaphylaxis
 - √ Learn about the student's Action / Emergency Care Plan
 - Know where your student's medication is and how to help in an emergency
- IF A CHILD IS HAVING A FIRST TIME REACTION AND DOESN'T HAVE A PLAN - DON'T DELAY USING EPINEPHRINE IF NEEDED

Robinson & Ficca, 2011

Allergy Management

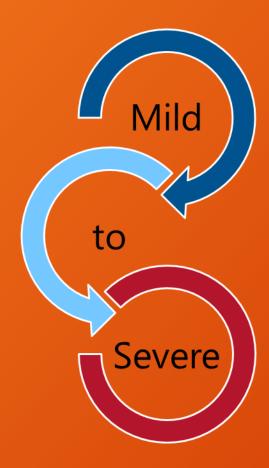
 Collaboration is vital - everyone should be aware of students with allergies

Classroom Teachers	School Administration
Special Area Teachers	Food Service
Student Instructional Support Personnel	Facilities and Maintenance Staff
Transportation Staff	Everyone!

- Must be willing to work as a team to keep these students safe
 - A Coordinated Approach / Effective Partnerships



Signs and Symptoms



What does it look like?

Mild Allergic Reaction:

- MOUTH: Itchy mouth
- SKIN: A few hives around mouth/face, mild itch
- ABDOMINAL AREA/ STOMACH: Mild nausea/discomfort

FARE, 2015

What does it look like?

Anaphylaxis: Any SEVERE SYMPTOMS after suspected or known ingestion or exposure:

- •One or more of the following:
 - LUNG: Short of breath, wheezing, 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

FARE, 2015

What does it look like?

Anaphylaxis: Any SEVERE SYMPTOMS after suspected or known ingestion or exposure:

- Or combination of symptoms from different body areas:
 - SKIN: Hives, itchy rashes, swelling (e.g., eyes, lips)
 - ABDOMINAL AREA/ STOMACH: Vomiting, diarrhea, crampy pain
 - HEENT: Runny nose, sneezing, swollen eyes, phlegmy throat
 - OTHER: Confusion, agitation, feeling of impending doom

FARE, 2015

How will I know what to do?

- School Nurse will develop an Emergency Care Plan for students with a diagnosed allergy
- Includes steps to follow
- Should be reviewed regularly
 - Includes information from the healthcare provider/allergist
 - Use school protocol if available
- Ask: Are signs and symptoms of possible anaphylaxis present and was there an exposure to a possible trigger?
- But be ready to respond if a child doesn't have a plan

Be prepared to act!

Allergy Action/Emergency Care Plan

- Individual specific to the student
- Plan should be shared with school staff responsible for care
- Information should be treated with care
- **Everyone should** know where medication is and **HOW TO REACT**

EL PASO COUNTY SCHOOL HEALTH SERVICES PRACTITIONER'S WRITTEN ORDER/ALLERY/ANAPHYLAXIS PLAN A Practitioner's Wiften Order statement dated for the CURRENT school year signed by the parent, legal guardian or other person(s) having legal authority of the student AND Original container with prescription label from a registered pharmacist licensed to practice in the state of Texas with current date, student's name, dose to be given, time(s) to ONLY inedications and/or health care procedures prescribed in writing by the attending practitioner licensed to practice medicine in the state of Texas are to be administered. The following will not be administered by any school personnel: Medication prescribed and/or purchased in foreign countries, herbal, alternative, or non-traditional preparations. All Nurses wherever employed must observe the law that requires them to have a written practitioner's order before the administration of any medication AT THE END OF THE SCHOOL YEAR, ALL UNCLAIMED MEDICATION WILL BE DESTROYED ON THE LAST DAY OF SCHOOL COMPLETE AND RETURN THIS FORM TO THE SCHOOL NURSE I. TO BE COMPLETED BY A LICENSED PRACTITIONER If allergen has been ingested or suspect ingestion/exposure: Give Checked Medication Symptoms ☐ Epinephrine ☐ Antihistamine ☐ Epinephrine ☐ Antihistamine itching, tingling sensation, swelling of lips, tongue, mouth, or drooling ☐ swelling of tongue and throat, difficulty swallowing, itching, tightness/closure, ☐ Epinephrine ☐ Antihistamine Throat hoarseness, changes in voice ☐ Epinephrine ☐ Antihistamine ☐ nausea, abdominal cramps, vomiting, diarrhea ☐ Epinephrine □ Antihistamine □ Epinephrine ☐ Antihistamine weak or thready pulse, heart palpitations, drop in blood pressure, dizziness, ☐ Antihistamine ☐ Epinephrine lightheadedness, loss of consciousness □ Epinephrine □ Antihistamine ☐ If reaction is progressing (several of the above area affected) give: ☐ Epinephrine ☐ Antihistamine Epinephrine Inject intramuscularly (circle appropriate dose) Epinephrine injection, auto-injector: 0.3 mg / 0.15 mg Medication/Dose/Route IMPORTANT: Asthma inhalers and/or antihistamines cannot be depended on to replace epinephrine in anaphylaxis I understand that the emergency medication listed above may be administered by a trained unlicensed staff member and that 911 will be called whenever the above emergency medication is given. In addition for my patient I would like to add the following ☐ Yes ☐ No ☐ The above named student is capable of self-administration and should carry his/her own medication. Printed Name of Practitioner Practitioner's Signature Telephone Number Date FAX This Plan was approved by the Southwest School Nurse Administrator Alliance

Epinephrine Administration



How to use an EpiPen® (epinephrine injection, USP) Auto-Injector



1 PREPARE

Remove the EpiPen* or EpiPen Jr*
Auto-Injector from the clear carrier tube.
Flip open the yellow cap of your EpiPen* or
the green cap of your EpiPen Jr* carrier tube.
Tip and slide the auto-injector out of the
carrier tube.

Hold the auto-injector in your fist with the orange tip pointing downward. Blue to the sky, orange to the thigh™.

With your other hand, remove the blue safety release by pulling straight up without bending or twisting it.







NEVER-SEE-NEEDLE® helps with protection. Protects against needle exposure before and after use.

NOTE:

The needle comes out of the orange tip.

 To avoid an accidental injection, never put your thumb, fingers or hand over the orange tip. If an accidental injection happens, get medical help right away.

(2) ADMINISTER

If you are administering EpiPen $^\circ$ or EpiPen Jr $^\circ$ to a young child, hold the leg firmly in place while administering an injection.

Place the orange tip against the middle of the outer thigh (upper leg) at a right angle (perpendicular) to the thigh.

Swing and push the auto-injector firmly until it "clicks." The click signals that the injection has started.

Hold firmly in place for 3 seconds (count slowly 1, 2, 3).

Remove the auto-injector from the thigh. The orange tip will extend to cover the needle. If the needle is still visible, do not attempt to reuse it.

Massage the injection area for 10 seconds.









GET EMERGENCY MEDICAL HELP RIGHT AWAY

You may need further medical attention.

If symptoms continue or recur, you may need to use a second EpiPen® or EpiPen Jr® Auto-Injector.

INDICATIONS

EpiPen* and EpiPen Jr* Auto-Injectors are for the emergency treatment of life-threatening allergic reactions (anaphylaxis) caused by allergens, exercise, or unknown triggers; and for people who are at increased risk for these reactions. EpiPen* and EpiPen Jr* are intended for immediate administration as emergency support two theraps only. Seek Immediate emergency support haves.

IMPORTANT SAFETY INFORMATION

Use EpiPen[®] (epinephrine injection, USP) 0.3 mg or EpiPen Jr[®] (epinephrine injection, USP) 0.15 mg Auto-Injectors right away when you have an altergic emergency (anaphylaxie). Get emergency medical help right away. You may need further medical attention. Only a healthcare professional should give additional doses of epinephrine if you need more than two injections for a single anaphylactic episcol.

Not actual patient

Please see additional important Safety information and Indications on the back.
Please see accompanying full Prescribing Information and Patient Information.

Know what to do!

Act Quickly!

Epinephrine

- Epinephrine is the first line treatment for anaphylaxis
- Should be administered IMMEDIATELY
 - Some protocols call for epinephrine to be administered with or without symptoms
 - Parents & school administrators should not be concerned about adverse health effects of epinephrine - it has an impressive safety profile
 - √ When in doubt give the epinephrine
 - Adverse effects for average healthy child not harmful anxiety, palpitations

A delay in treatment can have devastating results

Schoessler & White, 2013 Robinson & Ficca, 2011 Sicherer & Simons, 2007

Epinephrine Auto-Injectors

- Epinephrine Autoinjectors are easy to use
- Come with instructions
 - Trainers available for practice use
- Websites have video demonstrations - know how to administer your student's auto-injector!



General Auto-injector Instructions

- GET SPECIFIC DEMONSTRATION/TRAINING FROM YOUR SCHOOL NURSE
 - It is preferable to use training device from student's brand of epinephrine auto-injector
- Determine that the student requires epinephrine use protocol or identify symptoms
- Call 911 have someone call EMS while you administer epinephrine
- Check medication expiration date

General Auto-injector Instructions

1

Remove safety cap from auto-injector

Place auto-injector against outer thigh

2

Push auto-injector firmly against thigh until auto-injector activates

*For small children, hold thigh firmly in place before injecting

- 3
- Hold firmly in place (check directions for the auto-injector for length of time to hold: 3 seconds or 10 seconds)
- Massage site for 10 seconds
- Keep device to give to EMS

Steps to Follow in an Emergency

- Follow the building emergency response plan/protocol (Call a CODE MEDICAL) and:
- 1. IMMEDIATELY ADMINISTER EPINEPHRINE AUTOINJECTOR PER STANDING ORDER:
 - √ 0.15 mg of epinephrine for otherwise healthy young children weighing 10 to 25 kg (22 - 55 lbs.)
 - √0.30 mg of epinephrine for those weighing 25 kg (55 lbs.) or more
 - ✓Inject into middle outer side of upper leg, note time and site of injection (can be given through clothing)
 - ✓Stay with student and monitor closely
- 2. Designate a person to call Emergency Medical System (911) and request ambulance with epinephrine

Steps to Follow in an Emergency

- 3. Designate a person to notify, school administration, school nurse and student's emergency contact(s)
- Stay with and observe student until EMS (ambulance) arrives.
- Maintain airway, monitor circulation, start CPR as necessary.
- Do not have the student rise to an upright position.
- •Consider lying on the back with legs elevated position, but alternative positioning is needed for vomiting (side lying, head to side) or difficulty breathing (sitting).
- Observe for changes until EMS arrives.

Steps to Follow in an Emergency

- IF NO IMPROVEMENT OR IF SYMPTOMS WORSEN IN ABOUT 5 -15 MINUTES,
- ADMINISTER A SECOND EPINEPHRINE DOSE according to local policy
- Provide EMS with identifying information, observed signs and symptoms, time epinephrine administered, used epinephrine autoinjector to take with to the hospital
- Transport to the Emergency Department via EMS even if symptoms seem to get better.

Document and Debrief

- Discuss with the school nurse how to record that you gave an epinephrine auto-injector dose and the symptoms you witnessed
- Have a debriefing meeting with the nurse and school administration after giving an epinephrine autoinjector
 - Talk about how response went
 - Talk about feelings
 - Talk about ways to improve in the future

Robinson & Ficca, 2011

You Can Do It!

- You know what to do when a student is having a lifethreatening allergic reaction
- You know how to give epinephrine

You know how to save the lives of children like Bianca!



YOU'VE BEEN EMPOWERED TO SAVE A LIFE!





Thank you for taking the time to GET TRAINED

to administer an epinephrine auto-injector in an emergency!

QUESTIONS?

References

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