

Model Plan: Administration of Epinephrine and Benadryl

NOTE:

The signs and symptoms of anaphylactic shock are: hypotension, respiratory distress such as laryngeal edema, dyspnea, wheezing, a sense of retrosternal pressure or tightness, rapid and/or irregular pulse, urticarial, loss of consciousness, agitation, faintness, burning and/or itching eyes, tearing, congestion and itching nose, rhinitis, nausea, vomiting, abdominal pain, diarrhea, flushed skin, general itching, non-pruritic swelling of extremities as well as the face and perioral or periorbital regions, and/or a sense of uneasiness.

- After an injection of medication and/or vaccine it is determined that the individual has symptoms categorized as mild, the client may only require close monitoring on site with notice to their health care provider.
- Using clinical judgment, when the individual's symptoms progress to those of anaphylactic shock, School Vaccine Providers shall initiate the emergency procedure for the administration of Epinephrine and Benadryl.

Special Instructions:

1. Equipment needed includes:

- Ampules of Epinephrine (adrenaline) 1:1000 (or epinephrine auto-injectors)
- Diphenhydramine (Benadryl) oral (12.5 mg/5 mL suspension) and 25 or 50 mg capsules or tablets
- 4 TB syringes
- (2) 3cc syringes (w/needle-22-25ga, 1-1.5" length)
- Alcohol Swabs
- Blood pressure cuff and stethoscope
- CPR mask

2. All School Vaccine Providers are required to be trained in Health Care Provider cardiopulmonary resuscitation (CPR).
3. In the event of a medical emergency during a clinic session, school vaccine providers shall activate emergency medical services and notify the responsible health care provider and/or call an ambulance or other local emergency medical services.
4. School vaccine provider staff shall initiate CPR if the situation warrants it, unless there is a “Do Not Resuscitate” order in place. The school disclaims any liability for misapplication of this knowledge by the School Vaccine Provider.

In an emergency:

1. Call for assistance
2. Notify local emergency medical services
3. Establish and maintain an airway

To administer Epinephrine and Benadryl, follow the steps below:

1. Administer Epinephrine (per dosage chart/guidelines)

- A. Using tuberculin (1cc)-syringe draw up only the amount of Epinephrine needed, based on the weight of the child or the dosage amount for an adult, or use epinephrine autoinjector.
- B. Administer the Epinephrine subcutaneously. NOTE: DO NOT GIVE if symptoms of angina are present.

Epinephrine Dosage Guidelines: *

Epinephrine (Adrenaline Chloride) 1:1000

0.1cc for children < 20 lbs. (0-12 months of age)

0.2cc for children 20 – 45 lbs. (1-4 years old)

0.3cc for children > 45 lbs. (> 4 years of age)

0.3cc for adults

- C. Guidelines for Epinephrine autoinjectors, see dosage and images below.

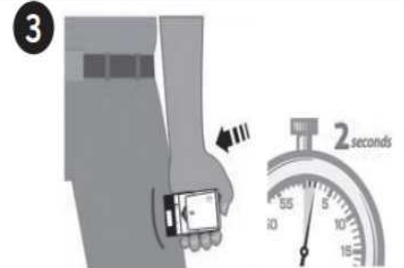
Epinephrine Autoinjector Dosage Guidelines: *

0.15 mg (junior dose) indicated for child under 66 pounds

0.3 mg (adult dose) indicated for over 66 pounds.

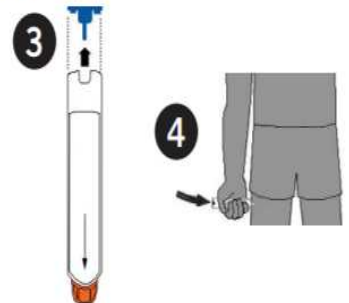
HOW TO USE AUVI-Q® (EPINEPHRINE INJECTION, USP), KALEO

1. Remove Auvi-Q from the outer case.
2. Pull off red safety guard.
3. Place black end of Auvi-Q against the middle of the outer thigh.
4. Press firmly until you hear a click and hiss sound, and hold in place for 2 seconds.
5. Call 911 and get emergency medical help right away.



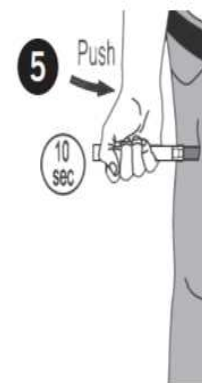
HOW TO USE EPIPEN® AND EPIPEN JR® (EPINEPHRINE) AUTO-INJECTOR AND EPINEPHRINE INJECTION (AUTHORIZED GENERIC OF EPIPEN®), USP AUTO-INJECTOR, MYLAN AUTO-INJECTOR, MYLAN

1. Remove the EpiPen® or EpiPen Jr® Auto-Injector from the clear carrier tube.
2. Grasp the auto-injector in your fist with the orange tip (needle end) pointing downward.
3. With your other hand, remove the blue safety release by pulling straight up.
4. Swing and push the auto-injector firmly into the middle of the outer thigh until it 'clicks'.
5. Hold firmly in place for 3 seconds (count slowly 1, 2, 3).
6. Remove and massage the injection area for 10 seconds.
7. Call 911 and get emergency medical help right away.



HOW TO USE IMPAX EPINEPHRINE INJECTION (AUTHORIZED GENERIC OF ADRENALCLICK®), USP AUTO-INJECTOR, IMPAX LABORATORIES

1. Remove epinephrine auto-injector from its protective carrying case.
2. Pull off both blue end caps: you will now see a red tip.
3. Grasp the auto-injector in your fist with the red tip pointing downward.
4. Put the red tip against the middle of the outer thigh at a 90-degree angle, perpendicular to the thigh.
5. Press down hard and hold firmly against the thigh for approximately 10 seconds.
6. Remove and massage the area for 10 seconds.
7. Call 911 and get emergency medical help right away.



ADMINISTRATION AND SAFETY INFORMATION FOR ALL AUTO-INJECTORS:

1. Do not put your thumb, fingers or hand over the tip of the auto-injector or inject into any body part other than mid-outer thigh. In case of accidental injection, go immediately to the nearest emergency room.
2. If administering to a young child, hold their leg firmly in place before and during injection to prevent injuries.
3. Epinephrine can be injected through clothing if needed.
4. Call 911 immediately after injection.

First-line treatment: Epinephrine is the first-line treatment for anaphylaxis, and there is no known equivalent substitute.

Optional treatment: H₁ antihistamines relieve itching and urticaria (hives). These medications **DO NOT** relieve upper or lower airway obstruction, hypotension, or shock. Consider giving diphenhydramine (e.g., Benadryl) for relief of itching and hives. Administer orally 1–2 mg/kg every 4–6 hours, up to a maximum single dose of 100 mg.

*American Academy of Pediatrics, Abbott Laboratories, American Hospital Formulary Service, Mosby's Nursing Drug Reference

**Nursing 2006 Handbook, 26th edition. New York: Lippincott Williams & Wilkins.

***Nelson's Textbook of Pediatrics, 15th edition. Philadelphia: Saunders