Reasons for Having Non-Individual Auto-injectable Epinephrine Available in Public Schools

Anaphylaxis is a potentially life-threatening medical condition occurring in allergic individuals after exposure to things such as certain foods, medicines, latex, or an insect sting. Anaphylaxis refers to a collection of symptoms affecting multiple systems in the body. The most dangerous symptoms include breathing difficulties and a drop in blood pressure or shock that are potentially fatal. Epinephrine is the drug of choice for treatment of anaphylaxis, and should be given as soon as possible at the onset of symptoms.

If there were to be a student, a staff member, or other adult who developed symptoms of anaphylaxis at school, there would be a delay before paramedics or ambulance staff could arrive. Therefore, having school staff trained in recognizing anaphylaxis and quickly giving epinephrine may be life-saving. Students who have been identified as being at risk for an allergic reaction should have their own auto-injector of epinephrine at school. However, some students or adults at school may have their first anaphylactic reaction in a school setting.

Arizona Revised Statute (ARS) § 15-157 allows trained individuals under a standing order to administer auto-injectable epinephrine to a child or adult at a public school or a school-sponsored activity. Arizona Administrative Code (AAC) R7-2-809 describes the responsibility of Arizona public school districts and charter schools to stock auto-injectable epinephrine on site at school, the training required by those designated to administer epinephrine in an emergency setting, and the procedures for its administration.
Program for School Districts and Charter Schools to Have Auto-injectable Epinephrine for Emergency Administration

- **Arizona Revised Statute (ARS) § 15-341, A, 35 (a)** permits pupils who have been diagnosed with anaphylaxis by a licensed health care provider to carry and self-administer emergency medications, including auto-injectable epinephrine, while at school and at school-sponsored activities.

- **ARS § 15-157 and AAC R7-2-809** adds to ARS § 15-341 by requiring that each school district and charter school should designate at least two school personnel, in addition to any school nurse or athletic trainer, to receive annual training in the proper administration of auto-injectable epinephrine to a pupil or an adult who shows symptoms of anaphylaxis while at school or at school-sponsored activities pursuant to a standing order.

- The annual training to school staff of emergency administration of epinephrine and recognizing anaphylaxis should be conducted by a regulated health care professional, whose competencies include the recognition of symptoms of anaphylaxis, the procedures to follow when anaphylaxis occurs, and the administration of auto-injectable epinephrine. These regulated health care professions would include but are not limited to a licensed school nurse, a certified emergency medical technician, or a licensed athletic trainer.

- Each school district or charter school should obtain a standing order for obtaining non-individual specific auto-injectable epinephrine and for emergency administration of epinephrine by designated trained personnel from its designated school district physician or charter school physician who is a doctor of medicine licensed pursuant to **ARS Title 32, chapter 13** (M.D.) or a doctor of osteopathy licensed pursuant to **ARS Title 32 chapter 17** (D.O.). If no such physician is available in order to provide a standing order, the standing order would be obtained from the chief medical officer of the school’s county health department, or from the chief medical officer of the Arizona Department of Health Services.

- The standing order for auto-injectable epinephrine should be renewed annually and upon the change of any designated school district physician, charter school physician, chief medical officer of the county health department, or chief medical officer of the Arizona Department of Health Services.

- School districts and charter schools should maintain and make available upon request an up-to-date list of those school personnel authorized and trained to administer auto-injectable epinephrine pursuant to a standing order.

- All school districts and charter schools should have a written plan specific to their own school to adopt procedures for the emergency administration of auto-injectable epinephrine by designated trained personnel. School districts and charter schools may wish to have a policy that if the parents/guardians of a child with a known risk of anaphylaxis do not provide a specific auto-injector epinephrine for their child, and the school supply of epinephrine has to be used for their child, that the parent/guardian should reimburse the school for the cost of replacing the epinephrine.
Obtaining and Maintaining a Stock of Auto-injectable Epinephrine in Schools

- In addition to the auto-injectors of epinephrine that parents/guardians provide to a school for their child who is known to be at risk for anaphylaxis, each school district and charter school shall stock at least two juvenile doses (0.15 mg) and two adult doses (0.3 mg) of auto-injectable epinephrine at each school pursuant to standing order if sufficient monies are appropriated by the legislature each year.

- In addition to the auto-injectors of epinephrine that parents/guardians provide to a school for their child who is known to be at risk for anaphylaxis, each school district and charter school may stock at least two juvenile doses and two adult doses of auto-injectable epinephrine at each school pursuant to standing order if sufficient monies are not appropriated by the legislature during any fiscal year to provide for the purchase of the auto-injectable epinephrine.

- Each fiscal year the Arizona Department of Education is to include in its budget request for assistance to schools a separate line item for a continuous, nonlapsing appropriation to fund the requirements of ARS § 15-157 to provide a supply of auto-injectable epinephrine in all Arizona schools.

- Auto-injectable epinephrine that is needed for a school to comply with ARS § 15-157 would be purchased from a pharmacy or a pharmaceutical supply company using the signed standing order from the designated physician.

- The auto-injectable epinephrine should be stored at room temperature and in a secure, unlocked, easily accessible location at school district and charter schools.

- A list of the people authorized to administer auto-injectable epinephrine by standing order should be stored next to the school’s supply auto-injectable epinephrine. The list should also be maintained in the school’s administrative offices and made available upon request.

- Do not refrigerate auto-injectable epinephrine. The optimal temperature to store auto-injectable epinephrine is between 68°-77° F. (with an acceptable range of 59°-86° F). Keep epinephrine auto-injectors protected from excessive heat or cold. The auto-injectors should be covered and protected from light.

- Each school should document monthly that they have checked to ensure that the auto-injector epinephrine is being properly stored, that the epinephrine solution is clear, that there are no particles in the solution, and that the expiration date has not been passed. If the solution is discolored or if it contains a precipitate, the auto-injector should be replaced. The epinephrine auto-injectors should be replaced before their expiration date.
Annual Training for All School Site Personnel in Recognizing Symptoms of Anaphylaxis

- Each school district and charter school should require that all school site personnel receive an annual training on the recognition of anaphylaxis and procedures to follow when anaphylaxis occurs or is suspected.

- The training on the recognition of symptoms of anaphylaxis and appropriate procedures should be conducted by a regulated health care professional, whose competencies include the recognition of the symptoms of anaphylaxis, and the procedures to follow when anaphylaxis occurs. The regulated health care professional includes but is not limited to a licensed school nurse, a certified emergency medical technician, or a licensed athletic trainer.

Annual Training of School Site Personnel who Are Authorized to Administer Auto-injectable Epinephrine

- The school district or charter schools should select at least two school site personnel per school, in addition to the school nurse or licensed athletic trainer, to receive an annual training in the recognition of anaphylaxis symptoms and procedures to follow when anaphylaxis occurs, so that they would able to administer epinephrine by auto-injector to someone suspected of having anaphylaxis.

- Annual training should be conducted by a regulated health professional whose competencies include the recognition of the symptoms of anaphylaxis and procedures to follow when anaphylaxis is suspected, including but not limited to a licensed school nurse, certified emergency medical technician, or licensed athletic trainer.

- The school site personnel who are trained to administer auto-injector epinephrine should read and understand the auto-injector epinephrine instructions. In addition, they should watch a training video from the manufacturer’s website on how to administer epinephrine by auto-injector.

Signs and Symptoms of Anaphylaxis (only a few may be present)

- Hives, itchy rash and/or swelling about the face, body or extremities
- Flushing and/or swelling of the face
- Itching around the eyes, redness and swelling of the eyes, and tearing of the eyes
- Itching and/or swelling of the lips, tongue or back of the throat
- Itching and/or sense of tightness in the throat, hoarseness, difficulty breathing and/or swallowing
- Itching of the outer ear canals
- Shortness of breath, repetitive coughing and/or wheezing, chest tightness, harsh high-pitched breathing (stridor)
- Weak pulse, low blood pressure
- Light headedness, feeling faint, fainting, collapse
- Nausea, abdominal cramps, vomiting
- Distress, anxiety and a sense of dread

The most dangerous symptoms of anaphylaxis include breathing difficulties and a drop in blood pressure or shock that are potentially fatal.
PROTOCOL FOR EMERGENCY ADMINISTRATION OF EPINEPHRINE IN SCHOOL
Written by the Arizona Department of Health Services
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Process of Administering Auto-injectable Epinephrine to a Person with Symptoms of Anaphylaxis

- Have trained school personnel evaluate the person and decide if the person’s symptoms indicate possible anaphylaxis.

- Call 911 when anaphylaxis is suspected.

- While the person is being evaluated for symptoms of possible anaphylaxis, obtain auto-injector epinephrine. Students who have been prescribed epinephrine by auto-injector and who have their own auto-injector at the school or at a school-sponsored event should use or be given their own auto-injector epinephrine. Obtain epinephrine from the school supply for a child or an adult who do not have a supply of their own auto-injector epinephrine.

- If it is decided that the patient may have anaphylaxis, a trained and authorized person should select the appropriate dosage of auto-injectable epinephrine to administer pursuant to a standing order, and administer epinephrine via auto-injector according to the standing order (0.3mg dose if the estimated weight is 66 pounds or above; 0.15mg dose if the estimated weight is 33-66 pounds).

- When possible, have the person with suspected anaphylaxis lie down with their legs elevated until the emergency responders arrive. Maintain the person in a position that is most comfortable for breathing.

- Advise school health personnel and school administration of the incident.

- If needed, repeat the epinephrine dose pursuant to a standing order if the symptoms persist and the emergency responders have not arrived.

- Once the emergency responders have arrived, inform them about the incident, the reasons for giving epinephrine, and the person’s response to the epinephrine. Give them the used epinephrine auto-injector labeled with the person’s name, date and time administered.

- Notify a student’s parents/guardians of the incident and ask them to promptly alert the student’s primary care doctor of the incident.

- Write down the date and time that the auto-injector epinephrine was given, the name of the recipient, and the name of the person giving the epinephrine. If two doses need to be given, write down the time that each were given.

- The person who receives epinephrine may have the following side effects: moderate anxiety; apprehensiveness; restlessness; tremor; shakiness; weakness; dizziness; sweating; heart-pounding; paleness; pallor; nausea and vomiting; and/or headache.

- Even if the person improves after receiving epinephrine, he/she still needs to be taken for urgent medical evaluation since the symptoms of anaphylaxis may recur.
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Actions after a Person Is Given Epinephrine

- Describe the event, the rationale for giving epinephrine, the person’s response to the epinephrine, who was involved in the event, the timing of notifications to emergency responders, school administration, student’s parents/guardians, and the physician who issued the standing order.

- Document the date and time(s) that the auto-injector epinephrine was given, the name of the recipient, and the name of the person giving the epinephrine.

- Complete a written documentation of the incident, detailing who administered the injection, the rationale for administering the injection, the approximate time of the injection(s), and notifications made to school administration, emergency responders, the student’s parents/guardians, and the doctor or chief medical officer who issued the standing order.

- Order replacement dose(s) of auto-injectable epinephrine.

- The school and school district should review the incident involving emergency administration of epinephrine to determine the adequacy of response.

- All school districts and charter schools shall report to the Arizona Department of Health Services all incidents of use of auto-injectable epinephrine using the school supply of epinephrine by filling out a form that can be downloaded from the Arizona Department of Health’s website at http://www.azdhs.gov/audiences/index.php#schools-home.

- The Arizona Department of Health Services will provide an annual copy of the report to the Arizona Department of Education

Liability of Physicians, School Districts, Charter Schools, and Employees of School Districts and Charter Schools Regarding Administration of Non-individual Specific Auto-injectable Epinephrine

- The chief medical officer of the Arizona Department of Health Services, the chief medical officer of a county health department, a doctor of medicine licensed pursuant to ARS Title 32, chapter 13, or a doctor of osteopathy licensed pursuant to ARS Title 32, chapter 17, a school district, a charter school, and employees of a school district or charter school are immune from civil liability with respect to all decisions made and actions taken that are based on good faith implementation of the requirements of ARS § 15-157, except in cases of wanton or willful neglect.
Emergency administration of epinephrine by trained personnel; immunity

- Pursuant to a standing order issued by the chief medical officer of the department of health services, the chief medical officer of a county health department, a doctor of medicine licensed pursuant to title 32, chapter 13 or a doctor of osteopathy licensed pursuant to title 32, chapter 17, an employee of a school district or charter school who is trained in the administration of auto-injectable epinephrine may administer or assist in the administration of auto-injectable epinephrine to a pupil or an adult whom the employee believes in good faith to be exhibiting symptoms of anaphylactic shock while at school or at school-sponsored activities. If sufficient monies are appropriated by the legislature each year to provide for the purchase of two juvenile doses and two adult doses of auto-injectable epinephrine at each public school in this state, beginning in the 2014-2015 school year, each school district and charter school shall stock two juvenile doses and two adult doses of auto-injectable epinephrine at each school pursuant to a standing order issued by the chief medical officer of the department of health services, the chief medical officer of a county health department, a doctor of medicine licensed pursuant to title 32, chapter 13 or a doctor of osteopathy licensed pursuant to title 32, chapter 17. Each fiscal year the department of education shall include in its budget request for assistance to schools a separate line item for a continuous, nonlapsing appropriation to fund the requirements of this section. If sufficient monies are not appropriated by the legislature during any fiscal year to provide for the purchase of two juvenile doses and two adult doses of auto-injectable epinephrine at each public school in this state, a school district or charter school may stock two juvenile doses and two adult doses of auto-injectable epinephrine at each school pursuant to a standing order issued by the chief medical officer of the department of health services, the chief medical officer of a county health department, a doctor of medicine licensed pursuant to title 32, chapter 13 or a doctor of osteopathy licensed pursuant to title 32, chapter 17. The chief medical officer of the department of health services, the chief medical officer of a county health department, a doctor of medicine licensed pursuant to title 32, chapter 13 or a doctor of osteopathy licensed pursuant to title 32, chapter 17, a school district, a charter school and employees of a school district or charter school are immune from civil liability with respect to all decisions made and actions taken that are based on good faith implementation of the requirements of this section, except in cases of wanton or willful neglect.
Emergency Administration of Auto-Injectable Epinephrine.
A. Applicability. This rule applies to:
1. Any school district or charter school that voluntarily chooses to stock auto-injectable epinephrine pursuant to A.R.S. 15-157.
2. All school districts and charter schools when required to stock auto-injectable epinephrine pursuant to A.R.S. 15-157.

B. Definitions. The following definitions are applicable to this rule:
1. “Anaphylactic shock” is a severe systemic allergic reaction, resulting from exposure to an allergen, which may result in death.
2. “Auto-injectable epinephrine” means a disposable drug delivery device that is easily transportable and contains a premeasured single dose of epinephrine used to treat anaphylactic shock.
3. “Standing order” means a prescription protocol or instructions issued by the chief medical officer of the department of health services, the chief medical officer of a county health department, a doctor of medicine licensed pursuant to title 32, chapter 13, or a doctor of osteopathy licensed pursuant to title 32, chapter 17, for non-individual specific epinephrine.

C. Annual training in the administration of auto-injectable epinephrine.
1. Each school district and charter school shall designate at least two school personnel, in addition to any school nurse or athletic trainer, for each school site who shall be required to receive annual training in the proper administration of auto-injectable epinephrine in cases of anaphylactic shock pursuant to standing order.
2. Training in the administration of auto-injectable epinephrine shall be conducted in accordance with minimum standards and curriculum developed by the Arizona Department of Health Services in consultation with the Arizona Department of Education.
3. At a minimum, training shall include procedures to follow when responding to anaphylactic shock, including direction regarding summoning appropriate emergency care, and documenting, tracking and reporting of the event.
4. Training shall also include standards and procedures for acquiring a supply of at least two juvenile doses and two adult doses of auto-injectable epinephrine, restocking auto-injectable epinephrine upon use or expiration, and storing all auto-injectable epinephrine at room temperature and in secure, easily accessible locations on school sites.
5. Training shall be conducted by a regulated health care professional, whose competencies include the administration of auto-injectable epinephrine, including but not limited to a licensed school nurse, certified emergency medical technician or licensed athletic trainer.
6. School districts and charter schools shall maintain and make available upon request a list of those school personnel authorized and trained to administer auto-injectable epinephrine pursuant to a standing order.
D. Annual training on the recognition of anaphylactic shock symptoms and procedures to follow when anaphylactic shock occurs.
1. Each school district and charter school shall require all school site personnel to receive an annual training on the recognition of anaphylactic shock symptoms and procedures to follow when anaphylactic shock occurs.
2. Training shall be conducted in accordance with minimum training standards developed by the Arizona Department of Health Services in consultation with the Arizona Department of Education and shall follow the most current guidelines issued by the American Academy of Pediatrics.
3. Training shall be conducted by a regulated health care professional whose competencies include the recognition of anaphylactic shock symptoms and procedures to follow when anaphylactic shock occurs, including but not limited to a licensed school nurse, certified emergency medical technician or licensed athletic trainer.

E. Procedures for annually requesting a standing order for auto-injectable epinephrine.
1. Each school district or charter school shall obtain a standing order from its designated district or charter school physician licensed pursuant to Title 32, chapter 13 or 17, and if no such physician is available to provide a standing order, from the chief medical officer of the department of health services or the chief medical officer of a county health department.
2. Standing orders shall be renewed annually and upon the change of any designated school district or charter school physician.
3. Standing orders shall identify the appropriate dosage of auto-injectable epinephrine to administer based upon weight and the frequency at which auto-injectable epinephrine may be administered if symptoms persist or return.

F. Procedures for the administration of auto-injectable epinephrine in emergency situations.
1. All school districts and charters schools shall adopt procedures for the emergency administration of auto-injectable epinephrine by designated trained personnel.
2. Procedures shall address, at a minimum, the following requirements:
   a. Determining if symptoms indicate possible anaphylactic shock.
   b. Calling 911 if anaphylaxis is suspected to summon emergency responders and inform them that epinephrine is being administered.
   c. Selecting the appropriate dosage of auto-injectable epinephrine to administer pursuant to a standing order.
   d. Injecting epinephrine via auto-injector pursuant to a standing order, noting the time and dose given.
   e. Keeping the person stable until emergency responders arrive.
   f. Advising school medical personnel and administration of the incident.
   g. Repeating a second epinephrine dose pursuant to a standing order when symptoms persist and emergency responders have not arrived.
   h. Providing emergency responders with used epinephrine auto-injector labeled with name, date and time administered.
   i. Assuring that parents/guardians have been notified and advised to promptly alert student’s primary care physician of the incident.
PROTOCOL FOR EMERGENCY ADMINISTRATION OF EPINEPHRINE IN SCHOOL
Written by the Arizona Department of Health Services in consultation with the Arizona Department of Education
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j. Completing written documentation of the incident, detailing who administered the injection, the rationale for administering the injection, the approximate time of the injection(s), and notifications made to school administration, emergency responders, the student’s parents/guardians, and the doctor or chief medical officer who issued the standing order.
k. Ordering replacement dose(s) of auto-injectable epinephrine.
l. Reviewing any incident involving emergency administration of epinephrine to determine the adequacy of response.

G. All school districts and charter schools shall report to the Arizona department of health services all incidents of use of auto-injectable epinephrine pursuant to this rule in the format prescribed by the Arizona department of health services.

Format for Reporting Administration of Auto-injectable Epinephrine to the Arizona Department of Health Services

- The report form can be downloaded from the Arizona Department of Health’s website at http://www.azdhs.gov/audiences/index.php#schools-home.
- The data will be collected by the Bureau of Emergency Medical Services and Trauma System (BEMSTS), and shared annually and as requested with the Arizona Department of Education.
- Information to be included in the report
  - Name and location of school
  - Name of individual who was injected
  - Age of the individual injected
  - Incident date and time
  - Name of individual that administered the injection.
  - Number of doses of epinephrine given
  - Reasons for giving epinephrine
  - Describe any problems with giving epinephrine
  - Time 911 was called
- For questions that deal with this electronic report to BEMSTS, contact (602) 364-3150.
PROPOSED TEMPLATE FOR STANDING ORDERS FOR AUTO-INJECTABLE EPINEPHRINE IN A SCHOOL SETTING

- According to Arizona Revised Statute § 15-157, have the ________________________________ school located at ________________________________ obtain two auto-injectors of epinephrine of 0.15 mg, and two auto-injectors of epinephrine of 0.3 mg.
- Replace the epinephrine auto-injectors m before their expiration date or when they have been used.
- This signed standing order will serve as a prescription for obtaining epinephrine auto-injectors for the specified school.
- Keep the epinephrine auto-injectors at room temperature in a safe, easily accessible location. The best temperature is between 68°-77° F., with an acceptable range of 59°-86° F. Do not refrigerate auto-injectable epinephrine. Keep the auto-injectable epinephrine injectors covered and protected from light. Discard and replace the auto-injector epinephrine if the clear fluid becomes discolored or there are particles in the liquid.
- When a person has symptoms that could possibly be anaphylaxis, immediately obtain assistance from the school health office personnel and/or other personnel who have been trained in evaluating for anaphylaxis and administering auto-injector epinephrine.
- School personnel who have been trained in recognizing the symptoms of anaphylaxis should evaluate whether the person has symptoms that could be anaphylaxis.
- Have someone call 911 to obtain emergency medical assistance if a person is suspected to have symptoms of anaphylaxis.
- If anaphylaxis is suspected, obtain auto-injector epinephrine from the school supply, or from the student’s own supply at school. Students who have been prescribed epinephrine by auto-injector and who have their auto-injector at the school or at a school-sponsored event should use or be given their own auto-injector epinephrine, when possible.
- Maintain the ill person in a position that is most comfortable for their breathing. When possible, have the person who may have anaphylaxis lying down with their legs elevated.
- When a school staff member who has been trained and is authorized to administer auto-injectable epinephrine decides that the person may have anaphylaxis, the school staff member may administer epinephrine as described below.
- If the estimated weight of the ill person is 30 kg or above (66 pounds or above), give an auto-injectable epinephrine dose of 0.3 mg into the person’s anterolateral thigh.
- If the estimated weight of the ill person is 15 kg-30 kg (about 33-66 pounds), give an auto-injectable epinephrine dose of 0.15 mg into the person’s anterolateral thigh.
- If necessary, the epinephrine injection may be administered through a thin layer of clothing. There is no need to clean the site with alcohol before injection.
- Remove the auto-injector epinephrine safety cap when ready to inject.
- Identify the proper site for injection which is the patient’s outer thigh, midway between hip and knee.
- Jab the proper site for injection firmly against the patient’s thigh at a 90 degree angle.
- Hold the injector in place until the medication is injected (count to 10).
- Document the time of injection, the site of injection, and the person’s response to epinephrine.
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• If the person has not responded to epinephrine after 10-20 minutes, and emergency response personnel have not yet arrived, repeat a second dose of auto-injectable epinephrine of 0.3 mg (for patients whose estimated weight is 66 pounds or more) or 0.15 mg (for patients with estimated weight between 33-66 pounds).
• Do not administer more than two epinephrine doses of 0.3 mg or 0.15 mg (according to the estimated weight).
• If the person has asthma, use of the person’s own inhaler for treating respiratory distress is not contraindicated, but is not a substitute for quickly giving epinephrine by auto-injector.
• Give the used auto-injectors to emergency response personnel with the time and date that they were used and the patient’s name written on the injector. Do not discard auto-injectors into regular trash.
• Notify family members, school administrators, and the physician who signed the standing orders about the event and document the time that they were notified.
• Complete a written documentation of the incident, detailing who administered the injection, the rationale for administering the injection, the approximate time of the injection(s), and notifications made to school administration, emergency responders, the student’s parents/guardians, and the doctor or chief medical officer who issued the standing order.
• Report to the Arizona Department of Health Services about the event on the form from the Arizona Department of Health’s website at http://www.azdhs.gov/audiences/index.php#schools-home.
• Reorder auto-injector epinephrine to replace the dose(s) that were used.

______________________________________________________________
Doctor’s Signature                                                                                            Date

______________________________________________________________
Doctor’s Address

______________________________________________________________
Doctor’s Telephone Number

______________________________________________________________
Name of school where supply of auto-injector epinephrine will be located.

______________________________________________________________
Address of school

______________________________________________________________
Telephone number of administrative office of school

______________________________________________________________
Telephone number of health office of school

12/09/2015
PROTOCOL FOR EMERGENCY ADMINISTRATION OF EPINEPHRINE IN SCHOOL

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in consultation with the Arizona Department of Education
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References

1. Arizona Revised Statute § 15-157
   
   http://www.azleg.state.az.us/FormatDocument.asp?inDoc=/ars/15/00157.htm&Title=15&DocType=ARS

2. Arizona Administrative Code R7-2-809

3. Adrenaclick® 0.3 mg and 0.15 mg
   Package insert: http://adrenaclick.com/pdf/Prescribing-Information.pdf
   Website:
   http://adrenaclick.com/what_is_adrenaclick_epinephrine_injection_USP_auto_injector.php
   Training Video:

4. Auvi-Q® 0.3 mg and 0.15 mg
   Package insert: http://products.sanofi.us/Auvi-Q/Auvi-Q.html
   Website: http://www.auvi-q.com

5. Epinephrine injection, USP auto-injector 0.3 mg and 0.15 mg
   Package insert: http://epinephrineautoinject.com/pdf/Prescribing-Information.pdf
   Website: http://epinephrineautoinject.com
   Training Video:

6. EpiPen® and EpiPen Jr®
   Website:

   http://pediatrics.aappublications.org/content/119/3/638.full.pdf+html

   http://pediatrics.aappublications.org/content/126/6/1232.full.pdf+html

9. American Academy of Allergy, Asthma, & Immunology. www.aaaai.org

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