



PATIENT & CAREGIVER EDUCATION

Epinephrine (Systemic)

This information from Lexicomp® explains what you need to know about this medication, including what it's used for, how to take it, its side effects, and when to call your healthcare provider.

Brand Names: US

Adrenalin; Adrenalin-NaCl; Adyphren Amp II [DSC]; Adyphren Amp [DSC]; Adyphren II [DSC]; Adyphren [DSC]; Auvi-Q; Epinephrine Professional; EPINEPHrinesnap; EpinephrineSnap-EMS; Epinephrinesnap-v; EpiPen 2-Pak; EpiPen Jr 2-Pak; EPIsnap; Neffy; Symjepi [DSC]

Brand Names: Canada

Adrenalin; Allerject; Anapen; Anapen Junior; Emerade; EpiPen; EpiPen Jr

What is this drug used for?

- It is used to treat an allergic reaction.
- It is used to treat low blood pressure.
- It is used during eye surgery.
- It is used when the heart is not beating.
- It may be given to you for other reasons. Talk with the doctor.

What do I need to tell my doctor BEFORE I take this drug?

- If you are allergic to this drug; any part of this drug; or any other drugs, foods, or substances. Tell your doctor about the allergy and what signs you had.

This drug may interact with other drugs or health problems.

Tell your doctor and pharmacist about all of your drugs (prescription or OTC, natural products, vitamins) and health problems. You must check to make sure that it is safe for you to take this drug with all of your drugs and health problems. Do not start, stop, or change the dose of any drug without checking with your doctor.

What are some things I need to know or do while I take this drug?

All products:

- Tell all of your health care providers that you take this drug. This includes your doctors, nurses, pharmacists, and dentists.
- If you are allergic to sulfites, talk with your doctor. Some products have sulfites.
- If you have high blood sugar (diabetes), you will need to watch your blood sugar closely.
- If you are 65 or older, use this drug with care. You could have more side effects.
- Tell your doctor if you are pregnant, plan on getting pregnant, or are breast-feeding. You will need to talk about the benefits and risks to you and the baby.

All injection products:

- Do not give into the fingers, hands, or feet. Doing so may lead to lower blood flow in these areas. If this drug is given on accident, get medical help right away.

Products used in the eye:

- Bright lights may bother you. Wear sunglasses.

Nose spray:

- Talk with your doctor if you have nasal polyps or if you have ever had a broken nose, nose injury, or nose surgery. This drug may not work as well.

What are some side effects that I need to call my doctor about right away?

WARNING/CAUTION: Even though it may be rare, some people may have very bad and sometimes deadly side effects when taking a drug. Tell your doctor or get medical help right away if you have any of the following signs or symptoms that may be related to a very bad side effect:

All products:

- Signs of an allergic reaction, like rash; hives; itching; red, swollen, blistered, or peeling skin with or without fever; wheezing; tightness in the chest or throat; trouble breathing, swallowing, or talking; unusual hoarseness; or swelling of the mouth, face, lips, tongue, or throat.
- Signs of high blood pressure like very bad headache or dizziness, passing out, or change in eyesight.
- Chest pain or pressure.
- A fast heartbeat.
- Shortness of breath.
- Weakness on 1 side of the body, trouble speaking or thinking, change in balance, drooping on one side of the face, or blurred eyesight.
- Severe abnormal heartbeat has happened with this drug. Sometimes this has been deadly. This may be more likely if you already have heart problems or if you take certain drugs. Tell your doctor right away if you have an abnormal heartbeat.

All injection products:

- Signs of low potassium levels like muscle pain or weakness, muscle cramps, or a heartbeat that does not feel normal.
- Not able to pass urine or change in how much urine is passed.
- A burning, numbness, or tingling feeling that is not normal.

Injection (for allergic reactions):

- Rarely, infections have happened where this drug was given. Sometimes, these infections can be very bad. Call your doctor right away if you have signs of an infection like redness that does not go away, warmth, swelling, or tenderness.

Injection (if given in the vein):

- This drug may cause tissue damage if the drug leaks from the vein. Tell your nurse if you have any redness, burning, pain, swelling, blisters, skin sores, or leaking of fluid where the drug is going into your body.

Nose spray:

- Feeling confused.
- Memory problems or loss.

What are some other side effects of this drug?

All drugs may cause side effects. However, many people have no side effects or only have minor side effects. Call your doctor or get medical help if any of these side effects or any other side effects bother you or do not go away:

All products:

- Feeling anxious, nervous, excitable, shaky, or restless.
- Upset stomach or throwing up.
- Sweating a lot.
- Pale skin.

- Headache.

Injection:

- Feeling dizzy, tired, or weak.
- Goosebumps.

Nose spray:

- Nose or throat irritation.
- Tingling.
- Feeling jittery.
- Runny or stuffy nose.
- Sneezing.
- Feeling dizzy, sleepy, tired, or weak.
- Stomach pain.
- Numbness in the mouth.
- Pain in gums of teeth.

These are not all of the side effects that may occur. If you have questions about side effects, call your doctor. Call your doctor for medical advice about side effects.

You may report side effects to your national health agency.

You may report side effects to the FDA at 1-800-332-1088. You may also report side effects at <https://www.fda.gov/medwatch>.

How is this drug best taken?

Use this drug as ordered by your doctor. Read all information given to you. Follow all instructions closely.

Injection (for allergic reactions):

- It is given as a shot into a muscle or into the fatty part of the skin.
- Be sure you know how to use before an emergency happens. Read the package insert and instructions for use that come with this drug. If you have any questions about how to use this drug, talk with the doctor or pharmacist.
- Keep this drug with you at all times. You may want to keep extra ones at work, school, and home.
- Someone else may have to give this drug. Be sure others know where this drug is stored and how to give it if needed.
- Never put your fingers or hand over the tip.
- Check the device before you need to use it to make sure the safety release is in place and that the device can be removed from the case. Do not take off the safety release until ready to use.
- When you are ready to use, take the pen out of the case.
- Hold pen with tip down.
- Make a fist around the pen.
- Pull off safety release. Throw away the safety release right after using this drug. There may be a risk of choking if the safety release is accidentally swallowed by a child or pet.
- Jab straight into the outer thigh as you have been told. This drug may be given through clothes if needed. Inject and hold for as long as you were told.
- Do not give into the buttocks.
- If giving this drug to your child, hold the leg still to prevent injury. Try to limit how much your child moves before and during an injection.
- Get medical help right away after using this drug.
- Put back in the storage case.
- Take it with you to the hospital.

- Do not use this drug if the solution changes color, is cloudy, or has particles. Get a new one.
- If this drug expires, get a refill before a dose is needed.
- If the device has been activated by accident, do not use it for an emergency. Replace the device with a new one.

For other reasons:

- Your doctor will give this drug.

Nose spray:

- For the nose only.
- Be sure you know how to use before an emergency happens. Read the package insert and instructions for use that come with this drug. If you have any questions about how to use this drug, talk with the doctor or pharmacist.
- Keep this drug with you at all times. You may want to keep extra ones at work, school, and home.
- Someone else may have to give this drug. Be sure others know where this drug is stored and how to give it if needed.
- Do not take this drug out of the container until you are ready to use it. Do not prime or test this drug before using it.
- Each device has only 1 dose and cannot be reused. If another dose is needed, you will need to use a new device.
- If the allergic reaction does not get better or signs get worse after using this drug, you may use a second dose starting 5 minutes after the first dose if your doctor told you to do so. If you need to use 2 doses, spray the second dose in the same nostril as the first dose. It is best to keep 2 devices with you at all times. If you have questions, talk with your doctor.
- Spray up the nose only. Do not spray onto the wall joining the two nostrils or the outside of the nose.
- Do not sniff through the nose while spraying this drug or right after use.

- Get medical help right away after using this drug.
- If this drug expires, get a refill before a dose is needed.
- If an emergency happens and this drug is frozen, do not wait for it to thaw. Get medical help right away.

What do I do if I miss a dose?

- Get medical help right away.

How do I store and/or throw out this drug?

Injection (if given in the vein):

- If you need to store this drug at home, talk with your doctor, nurse, or pharmacist about how to store it.

All other injection products:

- Store at room temperature. Do not refrigerate or freeze.
- Protect from heat, cold, and light.

Injection (for allergic reactions):

- Store in the case you were given.

Nose spray:

- Store at room temperature. Do not freeze.
- Protect from heat.

All products:

- Keep all drugs in a safe place. Keep all drugs out of the reach of children and pets.
- Throw away unused or expired drugs. Do not flush down a toilet or pour down a drain unless you are told to do so. Check with your pharmacist if you have questions about the best way to throw out drugs. There may be

drug take-back programs in your area.

General drug facts

- If your symptoms or health problems do not get better or if they become worse, call your doctor.
- Do not share your drugs with others and do not take anyone else's drugs.
- Some drugs may have another patient information leaflet. If you have any questions about this drug, please talk with your doctor, nurse, pharmacist, or other health care provider.
- Some drugs may have another patient information leaflet. Check with your pharmacist. If you have any questions about this drug, please talk with your doctor, nurse, pharmacist, or other health care provider.
- If you think there has been an overdose, call your poison control center or get medical care right away. Be ready to tell or show what was taken, how much, and when it happened.

Consumer Information Use and Disclaimer

This generalized information is a limited summary of diagnosis, treatment, and/or medication information. It is not meant to be comprehensive and should be used as a tool to help the user understand and/or assess potential diagnostic and treatment options. It does NOT include all information about conditions, treatments, medications, side effects, or risks that may apply to a specific patient. It is not intended to be medical advice or a substitute for the medical advice, diagnosis, or treatment of a health care provider based on the health care provider's examination and assessment of a patient's specific and unique circumstances. Patients must speak with a health care provider for complete information about their health, medical questions, and treatment options, including any risks or benefits regarding use of medications. This information does not endorse any treatments or medications as safe, effective, or approved for treating a specific patient. UpToDate, Inc. and its affiliates disclaim any warranty or liability relating to this information or the use thereof. The use of this information is governed by the Terms of Use, available at

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If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit www.mskcc.org/pe to search our virtual library.

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