

The medicine in the Auto-injector (the pen) is adrenaline which is an adrenergic drug. It works directly on the cardiovascular (heart and circulation) system and respiratory (lung) system, to stop the possible fatal effects of anaphylactic shock by very quickly making the blood vessels smaller, relaxing muscles in the lungs to improve breathing, reducing swelling and stimulating heartbeat.

The EpiPen® is intended for immediate self administration by a person with a history or recognised risk of going into anaphylactic shock. If you are at risk, you should always keep your EpiPen® with you. It is designed as an emergency rescue therapy but you must get medical attention as soon as possible after its use.

2. Before you use EpiPen®

There is no known reason why anyone should not use EpiPen® during an allergic emergency.

Take special care with EpiPen®
Adrenaline is essential for the treatment of anaphylaxis. However, take special care with EpiPen®:

- particularly if you have heart disease as it may affect the medicines that you are taking and may bring on an attack of chest pain (angina)
- if you have an overactive thyroid
- if you have high blood pressure
- if you have diabetes
- If you are elderly, pregnant or the child weighs less than 30 kg (4 stone 9 lbs)

as there is a greater risk of getting side effects. Make sure you have discussed this with your doctor if any of these apply to you.

Patients with these conditions, or anyone who may be in the position to administer EpiPen® to a patient having an allergic reaction, should be properly instructed on how and when to give it.

The instructions for use must be carefully followed in order to avoid accidental injection.

EpiPen® should only be injected into the outer thigh. It should not be injected into the buttock due to the risk of accidental injection into a vein.

Warning
Accidental injection into the hands or fingers may result in reduced blood supply to these areas. If there is an accidental injection into these areas, you should go immediately to the nearest hospital casualty department for treatment.

Taking other medicines
When being prescribed EpiPen®, please tell your doctor or pharmacist if you are taking, or have recently taken, any other medicines, including medicines obtained without a prescription as they may affect how the adrenaline works.

This is especially important if you take any of the following:
Antidepressants such as tricyclic antidepressants or monoamine oxidase inhibitors (MAOI inhibitors), since the effects of adrenaline may be increased.

Medicines that may make the heart sensitive to uneven beats (arrhythmias), such as digitalis, mercurial diuretics or quinidine.

Diabetic patients should carefully monitor their glucose levels after use of EpiPen® as adrenaline can reduce the amount of insulin made by the body, thus increasing the blood glucose level.

Pregnancy
Ask your doctor or pharmacist for advice before taking any medicine.
There is limited experience of the use of adrenaline during pregnancy. If you are pregnant, do not hesitate to use EpiPen® in an emergency, since your and your baby's lives may be in danger. Discuss this with your doctor if you are pregnant.

Driving and using machines
The ability to drive and use machines is unlikely to be affected by the administration of an adrenaline injection but may be affected by an anaphylactic reaction. If affected do not drive.

Important information about some of the ingredients of EpiPen®
EpiPen® contains sodium metabisulphite, which may rarely cause severe allergic reactions (hypersensitivity) or breathing difficulty (bronchospasm). However, you should still use the EpiPen® as there are no satisfactory alternatives.

3. How to use EpiPen®

When your doctor prescribes EpiPen®, you must make sure you understand the reason it has been prescribed for you. You should be confident that you know exactly how and when to use it. Always use EpiPen® exactly as your doctor has told you. If you are at all unsure about how to use it, ask to have the instructions repeated by your doctor, nurse or pharmacist.

If you have been stung by an insect, try to remove the stinger with your fingernails – do not squeeze, pinch or push it deeper into the skin. If possible, put an ice pack on the area of the sting. Keep warm and avoid exercise. For allergic reactions caused by foods make sure you remove any remaining food from the mouth immediately.

EpiPen® is intended to be used by people with a body weight above 30 kg. For persons weighing less than 30 kg (4 stone 9 lbs) EpiPen® Jr. may be more appropriate for use.

Dosage
The dose will be decided by your doctor, who will adjust it individually for you. The usual adult dose for allergic emergencies is 0.3 mg adrenaline for injection into muscle (intramuscular use).

If you notice the signs of an acute allergic reaction, use EpiPen® immediately, through your clothing if necessary.

Each EpiPen® Auto-injector delivers one single dose of 0.3 ml liquid which is equal to 0.3 mg (300 micrograms) adrenaline. After use a volume of 1.7 ml will remain in the Auto-injector but this cannot be reused.

Sometimes a single dose of adrenaline may not be sufficient to completely reverse the effects of an allergic reaction. For this reason, your doctor may prescribe more than one EpiPen® for you. Repeated injections may be administered after 5-15 minutes if the symptoms are still there and the doctor has told you that you can do this. For this reason it may be a good idea to carry more than one EpiPen® with you at all times.

Method of administration
The EpiPen® is designed to be used easily by people without medical training. EpiPen® should simply be jabbed firmly against the outer portion of the thigh from a distance of approximately 10 cm (4 inches). There is no need for precise placement in the outer portion of the thigh. When you jab the EpiPen® firmly into your thigh, a spring activated plunger will be released, which pushes the hidden needle into the thigh muscle and administers a dose of adrenaline. If you are wearing clothes the EpiPen® can be injected through the clothes.

The instructions for use of the EpiPen® given below must be carefully followed.

EpiPen® should only be injected into the outer thigh. **It should not be injected into the buttock (your bottom).**

Directions for use
Before you ever need to use it, fully familiarise yourself with the EpiPen®, when and how it should be used (refer to diagram 1).

Follow these directions only when ready to use.

Hold the EpiPen® by the middle, never by the ends. For proper administration, look at the diagrams and follow these steps:

- Never put thumb, fingers or hand over the black tip.
- Do **not** remove grey safety cap until ready to use.