

# Patient information from BMJ

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## Addison's disease: what is it?

**Addison's disease is a rare condition that affects the body's ability to produce certain hormones. It causes extreme tiredness and weakness and can be life threatening if not treated. But drug treatments can help most people live a normal life.**

### What is Addison's disease?

Addison's disease affects two small glands that sit just above the kidneys, called the adrenal glands. These glands produce hormones, including two called cortisol and aldosterone.

With Addison's disease these glands are damaged and can't produce enough of these hormones. This causes symptoms including extreme tiredness. If left untreated the condition can be life threatening.

Several things can cause Addison's disease. Finding the cause in each person is important in helping find the best treatment.

In most people Addison's disease is what's called an autoimmune condition. This means that the body's immune system, which usually protects against infection, attacks some of the body's tissues instead. In this case the immune system's antibodies attack the adrenal glands.

Other, less common, causes of Addison's disease include:

- tuberculosis, HIV, and some other infections
- cancer
- some medicines
- bleeding in and around the adrenal glands that destroys them.

People with autoimmune diseases, such as type 1 diabetes, rheumatoid arthritis, or the most common type of hypothyroidism, can develop antibodies against the adrenal glands. But they usually don't have symptoms.

### What are the symptoms?

The main early symptoms of Addison's disease are:

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- fatigue (tiredness)
- loss of appetite, which after a while leads to a lot of weight loss
- muscle weakness.

As the condition develops it can cause brownish patches on the skin (called hyperpigmentation), especially on:

- areas where the skin creases, such as the palms and knuckles
- skin exposed to the sun, and
- areas of skin exposed to frequent friction.

Other, less common, symptoms include:

- muscle pain
- nausea, vomiting, and stomach cramps
- a craving for salt
- dizziness.

Addison's disease can be hard for doctors to diagnose, especially in its early stages. This is because symptoms like tiredness and weakness are similar to those of common conditions, such as flu. As a result, many people are not diagnosed until they have what's called an adrenal crisis.

During an adrenal crisis your levels of the hormones usually produced by the adrenal glands have fallen dangerously low and you are seriously ill. An adrenal crisis can be life threatening.

If your doctor suspects that you have Addison's disease you will need a blood test to check your hormone levels. But if your doctor suspects that you are having an adrenal crisis (by which time you will probably already be having emergency treatment in hospital) he or she will not wait for the results of tests before treating you.

## What will happen?

If you have Addison's disease you will need to take your prescribed medicine for the rest of your life. Your doctor will discuss with you how to take your medicine, and about times when you may need to take more than usual. For more information see our leaflet: *Addison's disease: what treatments work?*

Not taking your medicine means that your symptoms will return, and that you could have an adrenal crisis. So it's important to always make sure that your supply of medicines doesn't run too low.

Once your condition is stable (under control) you will need to see your doctor and perhaps a specialist every year to discuss your condition and how your medicine is working.

There are various things you can do to stay healthy. For example, everyone with Addison's disease should carry a medical alert card or wear a medical alert bracelet. If you are in an

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accident or lose consciousness (black out) for any reason, your doctor will then know that you need your corticosteroid medicine.

You should also keep emergency injections at home in case you lose consciousness or are in an accident. Family members should be taught how to give you these injections, in case you can't, because of an adrenal crisis or for any other reason.

And it's important to keep an eye on when your emergency injections are due to reach their expiry date, so that you get replacements in plenty of time.

You can find training on how to give the injections online. For example, in the UK the Addison's Disease Self Help Group ([addisons.org.uk](http://addisons.org.uk)) gives advice on this as well as help and support about all aspects of Addison's disease.

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