



What can go wrong?

Sometimes the defense does not work properly, because there are too few antibodies (1). Bacteria and viruses can then infect the body, resulting in illness. The reason for this may be an immune system disorder. An immune system disorder is also called 'immunodeficiency'.





Tests to determine whether you have an immune system disorder

In the hospital, the healthcare team will look at why your defenses are not working properly.

The following tests are possible:

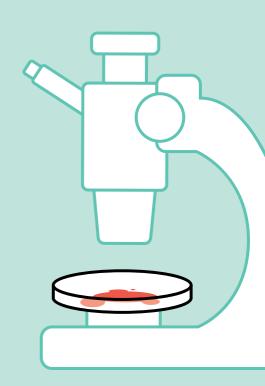
1

Blood test

We examine your blood for antibodies and defense cells.

There are different types of **antibodies** and **defense cells** in the blood.

We investigate how many antibodies and defense cells are present and whether they are working correctly.

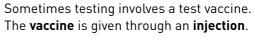




Testing with a vaccination

2

Vaccination



First, we test your blood prior to vaccination.

Then you receive the vaccination.

Approximately 4 to 6 weeks after the vaccination, we test your blood again.

Then we see if you have formed antibodies from the vaccination. We call this a 'response'.

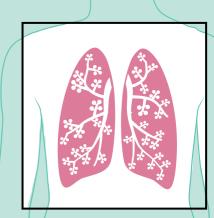
It enables us to see if your defense system is working properly.

3

A lung x-ray or CT scan

Sometimes further testing is needed.

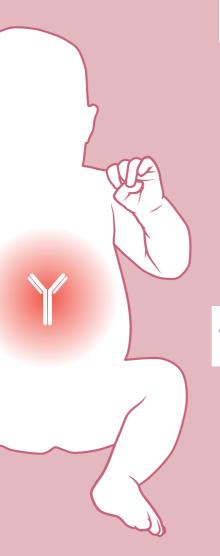
For example, an investigation of the lungs. Sometimes **x-rays** or a **CT scan** of the lungs are also performed.







An immune system disorder



There are over **400** different congenital immune system disorders.

They lead to a range of symptoms.

They are all of differing severity too.

Congenital immune system disorders are rare.

A congenital immune system disorder is called 'primary immunodeficiency'.

The abbreviation is **PID**.

Symptoms caused by PID may not occur until advanced age. This is not the same for everyone.

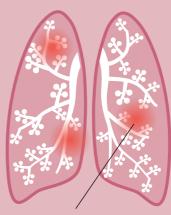


Symptoms with an immune system disorder

Patients with an immune system disorder may have a wide range of symptoms, including:

- · Being frequently sick
- · Infections, such as an ear infection or pneumonia
- Recurrent infections
- Fatigue





Pneumonia

Do you want to learn more about immune disorders?

Or do you want to connect with other people with an immune system disorder?

The dsai e.V. patient organization for congenital immunodeficiency can help you with this.

www.dsai.de

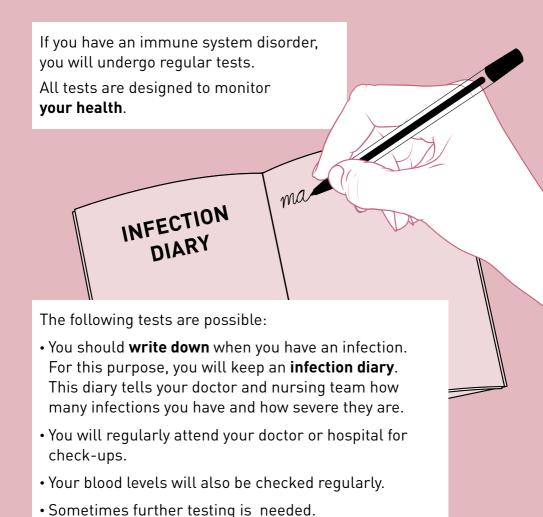
or call them at 08074 8164







An immune system disorder is present - what then?





Testing for pathogens

If you are sick, please **call** your doctor or nursing team.

The doctor or nursing team will want to know whether the disease has been caused by a bacterium or a virus. A culture medium can be used to check whether the disease has been caused by a bacterium or another pathogen.

The doctor can then also see which bacteria or pathogens are making you sick.



Sometimes the doctor prepares the **culture**. Sometimes you prepare the culture yourself. You then cough up some mucus and bring the mucus in a vessel to the doctor or hospital.

When are you sick?

- You have a fever of more than 38 degrees Celsius
- You are coughing up mucus
- You have diarrhea
- You feel unwell

If in doubt, you can **ask** your doctor or nursing team about it **at any time**.





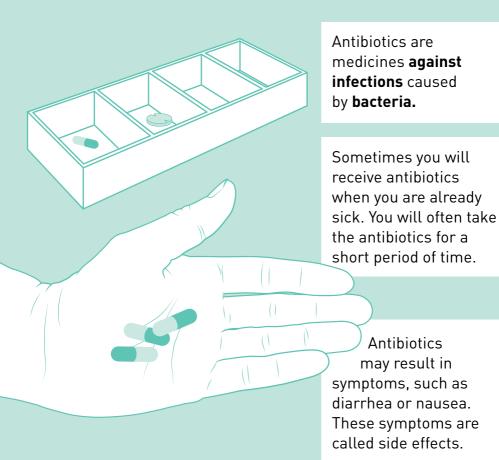
If you are sick, check with your doctor or nursing team to see if you need medicine.

If you need medicine, there are the following options, for example:

- Antibiotics
- treatment with immunoglobulins







Ask your doctor or nursing team about possible side effects

You can also find the side effects in the package leaflet.





Immunoglobulins are antibodies in the blood.

Antibodies help the body to recognize bacteria or viruses.

This way, the antibodies try to prevent you from getting sick.

People with a disorder that affects the immune system have too few antibodies.



Immunoglobulins

People **without** an immune system disorder have **sufficient** antibodies.

They can donate their blood.

Immunoglobulins from their blood can help people with an immune disorder.

You will receive immunoglobulins, in order to prevent infections.

This does not mean that you will never become sick again.

Immunoglobulins do not cure the immune system disorder.

You need repeated infusions of immunoglobulins.



Immunoglobulin treatment

You will receive the first treatment at the hospital or at your doctor's practice.

If this works well, you can continue the treatment independently at home.

You will receive **help** from a nursing team.

Immunoglobulins help to protect you against pathogens. However, the treatment may cause you to feel unwell. For example, you may get a headache or feel sick. **These** symptoms are called side effects.

Ask your doctor or nursing team about possible side effects.

You can also find the side effects in the **package leaflet**.





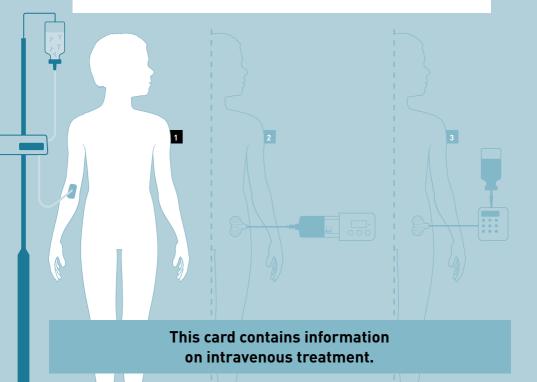
Intravenous immunoglobulin treatment (IVIg)

There are 3 ways to receive immunoglobulins.

Together with the doctor, you will decide which option suits you best.

The 3 ways to receive immunoglobulins are:

- Intravenous (IVIg)
- Subcutaneous (SCIg)
- Supported subcutaneous (fSCIg)





The intravenous immunoglobulin treatment (IVIg)

1

Intravenous

You will receive immunoglobulins directly into a vein via a needle. This is called 'intravenous'.

The abbreviation of this treatment is **IVIg**.

Usually, you will receive this treatment **every three to four weeks**.

IVIg treatment lasts about 2 to 3 hours.

There is **always** a doctor and nursing team with you when you receive this treatment.



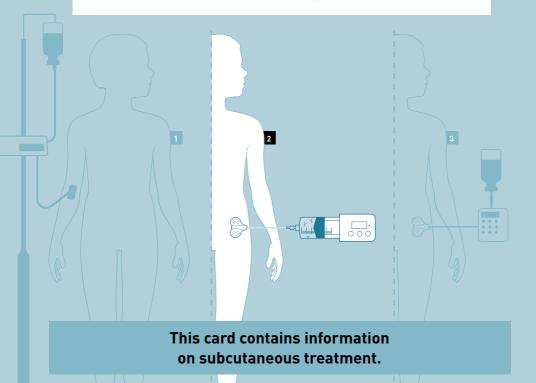


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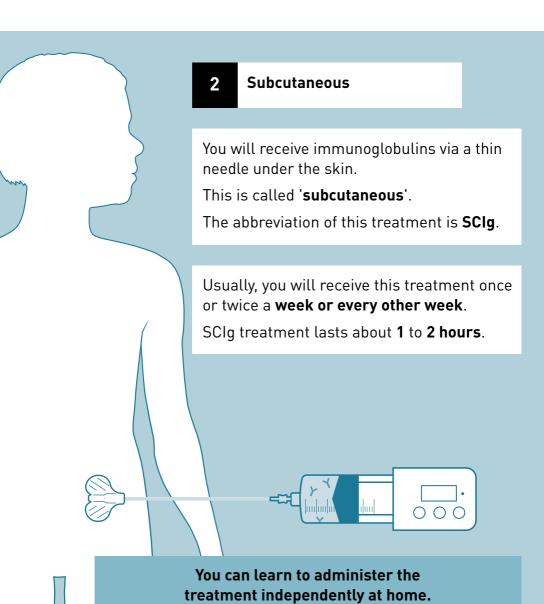
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The subcutaneous treatment (SCIg)







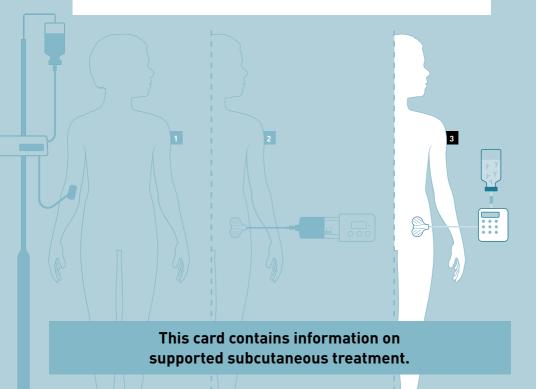
The supported subcutaneous treatment (fSCIg)

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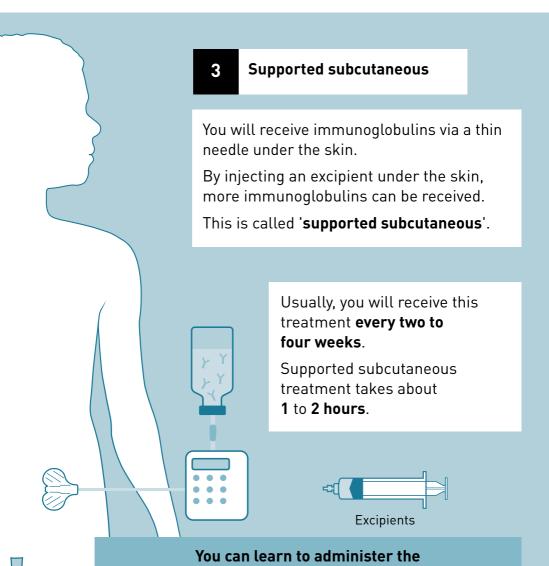
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- Intravenous (IVIg)
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The supported subcutaneous treatment (fSCIg)





treatment independently at home.



Who can help me?



Together, they will make sure that you get the treatment you need.

Ask your doctor or nursing team who your first point of contact is.



Impact on your daily life

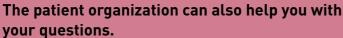
An immune system disorder has consequences for **everyday life**. For example, on your work, relationships, the choice to have children, or travel.

It is important that you talk **about** your problems and questions.

You can, for example, talk to your **doctor** or **nursing team**.

They are used to discussing these matters and they will try to help you.





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