

This is a translation of the Italian Package Leaflet (PL).
Not all the information given might apply to your country.

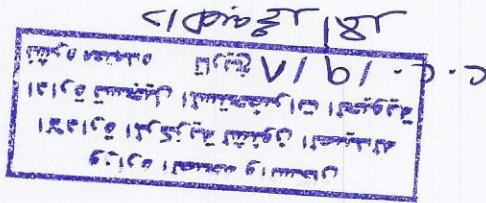
- If you are allergic to human immunoglobulins or any of the other ingredients of this medicine (listed in section 6).
- Do not use IMMUNOHBs

2. What you need to know before you use IMMUNOHBs

- risk of being infected with hepatitis B.
- has not become effective) and for whom a continuous prevention is necessary due to the continuous subjects who did not show an immune response after vaccination (i.e. in subjects whose vaccination has been carried out by an artificial kidney), until vaccination has become effective;
- In the newborn of a hepatitis B virus carrier-mother;
- in haemodialysed patients (i.e. in patients with a severe renal impairment who need a purification of the blood);
- in case of accidental exposure in non-immunised subjects (i.e. in subjects who have not been vaccinated against the hepatitis B virus; including persons whose vaccination is incomplete or unknown);
- in case of accidental exposure in non-immunised subjects (i.e. in subjects who have not been vaccinated against the hepatitis B virus);
- in order to give rapidly available antibodies against hepatitis B to prevent hepatitis B in the following cases:
- failure caused by hepatitis B virus.
- in order to prevent the recurrence of hepatitis B virus infection after liver transplantation due to liver failure caused by hepatitis B virus.
- IMMUNOHBs is used in the following cases:

IMMUNOHBs is a solution of human hepatitis B immunoglobulins which are the antibodies against the hepatitis B virus.

1. What IMMUNOHBs is and what it is used for



- effects not listed in this leaflet. See section 4.
- If you get any of the side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- Keep this leaflet. You may need to read it again.

Read all of this leaflet carefully before you start using this medicine because it contains important information for you.

Human hepatitis B immunoglobulin

IMMUNOHBs 180 IU/ml Solution for injection
IMMUNOHBs 540 IU/3ml Solution for injection
IMMUNOHBs 1000 IU/3ml Solution for injection

Package Leaflet: Information for the user

(540 IU/3ml) (180 IU/ml) (1000 IU/3ml)

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minimum propylxylaxis of hepatitis B in haemodialysed patients: 8-12 IU/kg with a maximum of 500 IU, every 2 months until vaccination has become effective.

Luminous opacities of hepatitis B in haemodialysed patients:

Prevention of hepatitis B in case of accidental exposure in non-immunised subjects: at least 500 IU, depending on the intensity of exposure, as soon as possible after exposure, and preferably within 24 - 72 hours.

In order to prevent hepatitis B in the following cases:

No data are available regarding the use of IMMUNOBBS in the pediatric population for the indication prevention of hepatitis B virus recurrence after liver transplantation for hepatitis B induced liver failure.

The compromised use of adequate vasoactive agents should be considered, if appropriate, as standard of hepatic re-infection prophylaxis.

This posology should be modified in the long term treatment to ensure the maintenance of the serious level of HBsAg antibodies above 100 IU/l in HBV-DNA negative patients and above 500 IU/l in HBV-DNA positive patients. This posology should be modified in the long term treatment to ensure the maintenance of the serious level of HBsAg antibodies above 100 IU/l in HBV-DNA negative patients and above 500 IU/l in HBV-DNA positive patients. This posology should be modified in the long term treatment to ensure the maintenance of the serious level of HBsAg antibodies above 100 IU/l in HBV-DNA negative patients and above 500 IU/l in HBV-DNA positive patients. The serious level of HBsAg antibodies above 100 IU/l in HBV-DNA negative patients and above 500 IU/l in HBV-DNA positive patients. This posology should be modified in the long term treatment to ensure the maintenance of the serious level of HBsAg antibodies above 100 IU/l in HBV-DNA negative patients and above 500 IU/l in HBV-DNA positive patients.

The physician will establish which is the appropriate dose for you.
The usual dose is the following:
In order to prevent the recurrence of hepatitis B virus infection after liver transplantation due to liver failure caused by hepatitis B virus:

Attention: the injection must be carried out after having ensured that a blood vessel has not been penetrated. The solution is clear and colourless or pale-yellow or light-brown. Do not use solutions which are cloudy or have deposits. If a large volume (>2 ml for children or >5 ml for adults) is required, it is recommended to administer it in divided doses at different sites. Moreover, if you suffer from thrombocytopenia and other disorders of haemostasis, IMUNOBHs must not be administered intramuscularly.

Change the needle and inject.
Once the solution is withdrawn from the container into the syringe, the medicinal product must be administered immediately.
Pre-filled syringe: screw in the plunger shaft and inject.

IMMUNOHBs should be administered via the intramuscular route. The product should be brought to room or body temperature before use.

Always use this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

3. How to use LMUDONHS

This is a translation of the *Thalidomide Package Leaflet (PL)*.
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adult. This is equivalent to 0.19% and 0.58% of the recommended maximum daily dietary intake of sodium for an main component of cooking/table salt). This medicinal product contains up to 3.9 mg per 1 ml vial and 11.7 mg sodium per 3 ml vial (sodium is the **IMMUNOHBs contains sodium**

operating machines. Patients who experience adverse reactions during treatment should wait for these to resolve before driving or IMMUNOHBs has no or negligible influence on the ability to drive and use machines have been observed.

Driving and using machines

Clinical experience with immunoglobulins suggests that no harmful effects on fertility are to be expected.

Fertility

Immunoglobulins are excreted into the milk and may contribute to protecting the neonate from pathogens which have a mucosal portal of entry. Trials and therefore it must only be given with caution to breast-feeding women.

The safety of IMMUNOHBs for use in breast-feeding mothers has not been established in controlled clinical trials and therefore should only be given with caution to pregnant women. Clinical experience with immunoglobulins suggests that no harmful effects on the course of pregnancy, or on the foetus and the neonate are to be expected.

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

Pregnancy, breast-feeding and fertility

Following vaccination with live attenuated viruses, a period of 3 or 4 weeks should elapse before the administration of human hepatitis B immunoglobulin. In case administration of human hepatitis B immunoglobulin is required before, then revaccination should be performed three months after the administration of human hepatitis B immunoglobulin. After administration of IMMUNOHBs, at least 3 months should elapse before vaccination with live attenuated viruses.

After administration of IMMUNOHBs, at least 3 months should elapse before vaccination with live attenuated viruses vaccines, such as rubella, mumps, measles and varicella. Immunoglobulin administration may interfere with the efficacy of these vaccines for a period of at least 3 months.

IMMUNOHBs may interfere with the development of an immune response to live attenuated virus vaccines such as rubella, mumps, measles and varicella. Immunoglobulin administration may interfere with the efficacy of these vaccines for a period of at least 3 months.

Live attenuated virus vaccines

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

Other medicines and IMMUNOHBs

Children

No specific measures or monitoring are required for the paediatric population. C.R.A. / A. Z. 12/12/2012
IMMUNOHBs must not be mixed with other medicinal products.

IMMUNOHBs may interfere with some tests for red cell antibodies.

IMMUNOHBs may interfere with some tests for red cell antibodies.

If you are going to have a blood test following administration of IMMUNOHBs, tell the nurse or the doctor that you have been administered this product.

This is a translation of the *Healthcare Package Leaflet (PL)*.

Effects on Blood tests

His strongly recommended that every time you receive a dose of **IMMUNOBBS**, the name and batch number of the product are recorded in order to maintain a link between the patient and the batch of the product.

Inmunoglobulins have not been associated with hepatitis B or parvovirus B19 infections possibly because antibodies against these infections, which are contained in the product, are protective.

The measures taken may be of limited value against non-enveloped viruses such as parvovirus B19. (HAV).

The merging of infectious agents or other types of infections.

Despite these measures, when medicines prepared from human blood or plasma are administered, the possibility of transmitting ineffective agents cannot be totally excluded. This also applies to any unknown or

- These measures include:
 - a careful selection of blood and plasma donors to make sure that those at risk of carrying infections are excluded;
 - the testing of the donations to ensure that there are no infective agents and/or viruses;
 - the inclusion of steps capable of inactivating or removing viruses.

These measures include:
- a careful selection of blood and plasma donors to make sure that those at risk of carrying infections

When medicines are made from human blood or plasma, certain measures are put in place to prevent

If you notice any of these symptoms: difficulty breathing, pain and swelling of a limb, loss of movement or sensitivity in a part of the body (focal neurological deficits) and chest pain, ask your doctor immediately or contact the nearest hospital, because you could be having an ongoing thrombotic event.

If you doctor or who admisters to you the product should suspect an allergic or anaphylactic reaction, the medical treatment for shock.

Serious allergic reactions are rare. Rarely, the human anti-hepatitis B immunoglobulins can induce a sudden fall in blood pressure with disorder of breathing, rashes, sometimes fever and skin reactions (anaphylactic reaction). This can happen even if you have tolerated previous treatments with immunoglobulins.

If you are a carrier of HBSAg, there is no benefit in eliminating this protein

Who admires IMMUNOBBS to you should ensure that the product is hot administered into a blood vessel, this could cause an acute (or severe) crisis of the circulatory system, known as shock.

Talk to your doctor, pharmacist or nurse before using immunobiologics.

Warnings and precautions

The physician must therefore weigh the benefit of treatment with IMMUNOBIS against the potential risk of allergic reactions.

If you have a deficiency of immunoglobulin A (IgA), you may develop antibodies against the immunoglobulin A in the blood. IMMUNONEWS contains small quantity of IgA and therefore severe

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Additional side effects in children

For information on safety with respect to transmissible agents, see the section 2 „What you need to know before you use IMMUNOBBS“.

- | | |
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| Headache | Accelerated heartbeats (Tachycardia) |
| Nausea | Fall in blood pressure (Hypotension) |
| Vomiting | |
| Skin reaction, redness (erythema), itching, pruritis | Joint pain (Arthralgia) |
| Fever | |
| Malaise | |
| Chills | |
| At injection site: pain, swelling, erythema, induration, warmth, pruritus, rash, itching | |

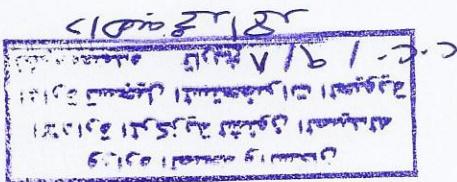
The following side effects have been reported following administration of IMUNOHBS during marketed use of the medicinal product (the frequency cannot be estimated from available data):

- adverse reactions as chills, headache, dizziness, fever, vomiting, allergic reactions, nausea, arthralgia (joint pains), low blood pressure and moderate low back pain may occur occasionally;
- rarely human normal immunoglobulins may cause a sudden fall in blood pressure (hypotension) and, in isolated cases, hypersensitivity reactions (anaphylactic shock), even when the patient has shown no hypersensitivity to previous administration.
- local reactions at injection site: soreness, swelling, redness (erythema), induration, local heat, pruritus, rash, itching, may frequently occur.

- Allergic reaction (hypersensitivity), anaphylactic shock (an extreme, often life-threatening allergic reaction). Symptoms of allergic reaction/anaphylactic shock include for example fruits, skin reactions, swelling of the lips, face, and tongue, difficulty swallowing, trouble in breathing, fainting.

If you notice any of these side effects, ask your doctor immediately or contact the nearest hospital:

Like all medicines, this medicine can cause side effects, although not everybody gets them.



4. Possible side effects

If you use more **IMMUNOGENS** than you should
Consequences of an overdose are not known.

Prevention of hepatitis B in the newborn, of a hepatitis B virus carrier-mother, at birth or as soon as possible after birth:

30-100 IU/kg. The hepatitis B immunoglobulin administration may need to be repeated until the vaccination has become effective.

In all these situations, vaccination against hepatitis B virus is highly recommended. The first vaccine dose can be injected the same day as human hepatitis B immunoglobulin, however in different sites.

If you did not show an immune response after vaccination (no measurable hepatitis B antibodies), and in case continuous prevention is necessary, your doctor can consider administration of 500 IU (to adults) and 8 IU/kg (to children) every 2 months.

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What IMMUNOHBs looks like and contents of the pack
IMMUNOHBs is a solution for injection.

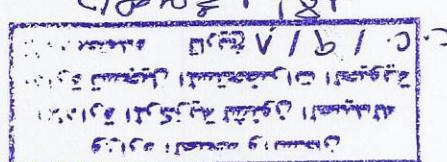
The excipients are glycine, sodium chloride, water for injections.

Produced from plasma of human donors.
The maximum content of IgA is 300 micrograms/ml.

IgG ₁	63.7 %
IgG ₂	31.8 %
IgG ₃	3.3 %
IgG ₄	1.2 %

Distribution of IgG subclasses:

IMMUNOHBs 180 IU/ml	IMMUNOHBs 1000 IU/3ml	Human proteins	of which human immunoglobulin (IgG) at least to 90%	anti-HBs) not less than 334 IU/ml	(180 IU/ml	(1800 IU in 3 ml vial)	(540 IU in 3 ml vial)	(1000 IU in 1 ml pre-filled syringe)	anti-HBs) not less than 334 IU/ml
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What IMMUNOHBs contains
The active substance is human hepatitis B immunoglobulin.

6. Contents of the pack and other information

Ask your pharmacist how to dispose of medicines you no longer use. These measures will help to protect the environment.
Do not throw away any medicines via wastewater or household waste.

Do not use this medicine if you notice the solution is cloudy or has deposits (see also "What IMMUNOHBs looks like and content of the pack" at section 6).
Do not freeze.

Keep in the outer carton in order to protect from light.
Store in a refrigerator (2°C - 8°C).

The expiry date refers to the last day of that month.
Do not use this medicine after the expiry date which is stated on the outer carton and on the label.

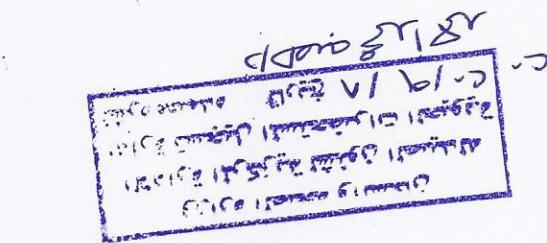
Keep this medicine out of the sight and reach of children.

5. How to store IMMUNOHBs

By reporting side effects you can help provide more information on the safety of this medicine.
If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system.

Frequency, type and severity of adverse reactions in children are expected to be the same as in adults.

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Marketing Authorisation Holder and Manufacturer
Kedrion S.p.A. - S.S. 7 bis Km 19,5, S. Antimo (Napoli).

Kedrion S.p.A. - Loc. Ai Conti, 55051 Castelvecchio Pascoli, Bargagli (Lucca), Italy.

IMMUNOHBs 334 IU solution for injection: pre-filled syringe with 1000 IU in 3 ml

IMMUNOHBs 180 IU solution for injection: vial with 540 IU in 3 ml

IMMUNOHBs 180 IU solution for injection: vial with 180 IU in 1 ml

The colour can vary from colourless to pale-yellow up to light-brown; during storage it may show formation
of slight turbidity or a small amount of particulate matter.