

rituximab

SANDOZ A Novartis
Division

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help

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

by reporting any side effects you may get. See the end of section 4 for how to report side effects.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### What is in this leaflet:

- 1. What Rixathon is and what it is used for
- 2. What you need to know before you are given Rixathon
- 3. How Rixathon is given
- 4. Possible side effects How to store Rixathon
- 6. Contents of the pack and other information

### What Rixathon is and what it is used for

#### What Rixathon is

Rixathon contains the active substance "rituximab". This is a type of protein called a "monoclonal antibody". It sticks to the surface of a type of white blood cell called "B-Lymphocyte" When rituximab sticks to the surface of this cell, the cell dies.

#### What Rixathon is used for

Rixathon may be used for the treatment of several different conditions in adults and children. Your doctor may prescribe Rixathon for the treatment of:

#### a) Non-Hodgkin's Lymphoma

This is a disease of the lymph tissue (part of the immune system) that affects a type of white blood cell called B-Lymphocytes. In adults Rixathon can be given alone or with other medicines called "chemotherapy". In adult patients where the treatment is working, Rixathon may be used as a maintenance treatment for 2 years after completing the initial treatment. In children and adolescents, rituximab is given in combination with "chemotherapy".

#### b) Chronic lymphocytic leukaemia

Chronic lymphocytic leukaemia (CLL) is the most common form of adult leukaemia. CLL affects a particular lymphocyte, the B cell, which originates from the bone marrow and develops in the lymph nodes. Patients with CLL have too many abnormal lymphocytes, which accumulate mainly in the bone marrow and blood. The proliferation of these abnormal B-lymphocytes is the cause of symptoms you may have. Rixathon in combination with chemotherapy destroys these cells which are gradually removed from the body by biological processes.

### c) Rheumatoid arthritis

Rixathon is used for the treatment of rheumatoid arthritis. Rheumatoid arthritis is a disease of the joints. B lymphocytes are involved in the cause of some of the symptoms you have. Rixathon is used to treat rheumatoid arthritis in people who have already tried some other medicines which have either stopped working, have not worked well enough or have caused side effects. Rixathon is usually taken together with another medicine called methotrexate.

Rixathon slows down the damage to your joints caused by rheumatoid arthritis and improves your ability to do normal

The best responses to Rixathon are seen in those who have a positive blood test to rheumatoid factor (RF) and/or anti-Cyclic Citrullinated Peptide (anti-CCP). Both tests are commonly positive in rheumatoid arthritis and aid in confirming the diagnosis.

#### d) Granulomatosis with polyangiitis or microscopic polyangiitis

Rixathon is used for the treatment of adults and children 2 years of age and older with granulomatosis with polyangiitis (formerly called Wegener's granulomatosis) or microscopic polyangiitis, taken in combination with corticosteroids. Granulomatosis with polyangiitis and microscopic polyangiitis are two forms of inflammation of the blood vessels which mainly affects the lungs and kidneys, but may affect other organs as well. B lymphocytes are involved in the cause of these conditions.

### e) Pemphigus vulgaris

Rixathon is used for the treatment of patients with moderate to severe pemphigus vulgaris.

Pemphigus vulgaris is an autoimmune condition that causes painful blisters on the skin and lining of the mouth, nose, throat and genitals.

# 2 What you need to know before you are given Rixathon

### Do not take Rixathon if

- you are allergic to rituximab, other proteins which are like rituximab, or any of the other ingredients of this medicine (listed in section 6).
- you have a severe active infection at the moment
- you have a weak immune system.
- you have severe heart failure or severe uncontrolled heart disease and have rheumatoid arthritis, granulomatosis with polyangiitis, microscopic polyangiitis or pemphigus vulgaris

Do not have Rixathon if any of the above apply to you. If you are not sure, talk to your doctor, pharmacist or nurse before you are given Rixathon.

### Warnings and precautions

Talk to your doctor, pharmacist or nurse before you are given Rixathon if:

 you have ever had or might now have a hepatitis infection. This is because in a few cases, Rixathon could cause hepatitis B to become active again, which can be fatal in very rare cases. Patients who have ever had hepatitis B infection will be carefully checked by their doctor for signs of this infection.

 you have ever had heart problems (such as angina, palpitations or heart failure) or breathing problems.

If any of the above apply to you (or you are not sure), talk to your doctor, pharmacist or nurse before you are given Rixathon. Your doctor may need to take special care of you during your treatment with Rixathon.

#### If you have rheumatoid arthritis, granulomatosis with polyangiitis, microscopic polyangiitis or pemphigus vulgaris also tell your doctor

• if you think you may have an infection, even a mild one like a cold. The cells that are affected by Rixathon help to fight infection and you should wait until the infection has passed before you are given Rixathon. Also please tell your doctor if you had a lot of infections in the past or suffer from severe

• if you think you may need any vaccinations in the near future, including vaccinations needed to travel to other countries. Some vaccines should not be given at the same time as Rixathon or in the months after you receive Rixathon. Your doctor will check if you should have any vaccines before you receive Rixathon.

#### Children and adolescents

Non-Hodgkin's lymphoma Rituximab can be used for the treatment of children and adolescents, 6 months of age and older, with non-Hodgkin's lymphoma, specifically CD20 positive diffuse large B-cell ymphoma (DLBCL), Burkitt lymphoma (BL)/Burkitt leukaemia (mature B-cell acute leukaemia) (BAL) or Burkitt-like lymphoma

Granulomatosis with polyangiitis or microscopic polyangiitis Rituximab can be used for treatment of children and adolescents, 2 years of age and older, with granulomatosis with polyangiitis (formerly called Wegener's granulomatosis) or microscopic polyangiitis. There is not much information about the use of rituximab in children and adolescents with

Talk to your doctor, pharmacist or nurse before you are given this medicine if you, or your child, are under 18 years of age.

### Other medicines and Rixathon

Tell your doctor, pharmacist or nurse if you are taking, have recently taken or might take any other medicines. This includes medicines obtained without a prescription and herbal medicines. This is because Rixathon can affect the way some other medicines work. Also some other medicines can affect the way Rixathon works.

### In particular, tell your doctor:

- if you are taking medicines for high blood pressure. You may be asked not to take these other medicines 12 hours people have a fall in their blood pressure while they are being given Rixathon.
- if you have ever taken medicines which affect your immune system – such as chemotherapy or immune-suppressive

If any of the above apply to you (or you are not sure), talk to your doctor, pharmacist or nurse before you are given Rixathon.

### Pregnancy and breast-feeding

You must tell your doctor or nurse if you are pregnant, think that you might be pregnant or are planning to become pregnant. This is because Rixathon can cross the placenta and may affect your baby.

If you can get pregnant, you and your partner must use an effective method of contraception while using Rixathon. You must also do this for 12 months after your last treatment with Rixathon. Rixathon passes into breast milk in small amounts. As the long-term effects on breastfed infants are not known, breast-feeding is not recommended during treatment with Rixathon and for 12 months after the treatment.

### Driving and using machines

It is not known whether rituximab has an effect on you being able to drive or use any tools or machines.

### Rixathon contains sodium

This medicine contains 52.6 mg sodium (main component of the cooking/table salt) in each 10 mL vial and 263.2 mg in each 50 mL vial.

This is equivalent to 2.6% (for 10 ml vial) and 13.2% (for 50 ml vial) of the recommended maximum daily dietary intake of sodium for an adult.

### 3 How Rixathon is given

## How it is given

Rixathon will be given to you by a doctor or nurse who is experienced in the use of this treatment. They will watch you closely while you are being given this medicine. This is in case you get any side effects.

You will always be given Rixathon as a drip (intra-venous

Medicines given before each Rixathon administration Before you are given Rixathon you will be given other medicines (premedication) to prevent or reduce possible side

### How much and how often you will receive your

# a) If you are being treated for non-Hodgkin's

- Lymphoma If you are having Rixathon alone
- Rixathon will be given to you once a week for 4 weeks.
- Repeated treatment courses with Rixathon are possible. If you are having Rixathon with chemotherapy
- Rixathon will be given to you on the same day as your chemotherapy. This is usually given every 3 weeks up to
- If you respond well to treatment, you may be given Rixathon as a maintenance treatment every 2 or 3 months for two years. Your doctor may change this, depending on how you respond to the medicine.
- you will be given Rixathon with chemotherapy. You will receive Rixathon up to 6 times over a 3.5 – 5.5 month

# b) If you are being treated for chronic lymphocytic

• If you are less than 18 years of age,

When you are treated with Rixathon in combination with chemotherapy, you will receive Rixathon infusions on day 0 cycle 1 then day 1 of each cycle for 6 cycles in total. Each cycle has a duration of 28 days. The chemotherapy should be given after the Rixathon infusion. Your doctor will decide if you should receive concomitant supportive therapy.

#### c) If you are being treated for rheumatoid arthritis Each course of treatment is made up of two separate infusions which are given 2 weeks apart. Repeated courses of treatment with Rixathon are possible. Depending on the signs and symptoms of your disease, your doctor will decide when you should receive more Rixathon. This may be months from now.

#### d) If you are being treated for granulomatosis with polyangiitis or microscopic polyangiitis Treatment with Rixathon uses four separate infusions given at

weekly intervals. Corticosteroids will usually be given by injection before the start of Rixathon treatment. Corticosteroids given by mouth may be started at any time by your doctor to treat your condition.

If you are 18 years of age or older and respond well to treatment, you may be given Rixathon as a maintenance treatment. This will be administered as 2 separate infusions which are given 2 weeks apart, followed by 1 infusion every 6 months for at least 2 years. Your doctor may decide to treat you longer with Rixathon (up to 5 years), depending on how you respond to the medicine.

### e) If you are being treated for pemphigus vulgaris Each course of treatment is made up of two separate infusions which are given 2 weeks apart. If you respond well to

treatment, you may be given Rixathon as a maintenance treatment. This will be administered 1 year and 18 months after the initial treatment and then every 6 months as needed or your doctor may change this, depending on how you respond to the medicine.

If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

### 4 Possible side effects

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

Most side effects are mild to moderate but some may be serious and require treatment. Rarely, some of these reactions have been fatal.

### nfusion reactions

During or within the first 24 hours of the infusion you may develop fever, chills and shivering. Less frequently, some patients may experience pain at the infusion site, blisters, itching, sickness (nausea), tiredness, headache, breathing difficulties, blood pressure raised, wheezing, throat discomfort, tongue or throat swelling, itchy or runny nose, vomiting, flushing or palpitations, heart attack or low number of platelets. If you have heart disease or anging, these reactions might get worse. Tell the person giving you the infusion immediately if you or your child develops any of these symptoms, as the infusion may need to be slowed down or stopped. You may require additional treatment such as an antihistamine or paracetamol. When these symptoms go away, or improve, the infusion can be continued. These reactions are less likely to happen after the second infusion. Your doctor may decide to stop your Rixathon treatment if these reactions are serious.

### Tell your doctor immediately if you or your child gets signs of an infection including:

- fever, cough, sore throat, burning pain when passing urine or feeling weak or generally unwell
- memory loss, trouble thinking, difficulty walking or sight loss - these may be due to a very rare, serious brain infection, which has been fatal (Progressive Multifocal Leukoencephalopathy or PML). You might get infections more easily during your treatment

with Rixathon. These are often colds, but there have been cases of pneumonia or urinary infections. These are listed below under "Other side effects"

If you are being treated for rheumatoid arthritis, granulomatosis with polyangiitis, microscopic polyangiitis or pemphigus vulgaris, you will also find this information in the Patient Alert Card you have been given by your doctor. It is important that you keep this Alert Card and show it to your partner or caregiver.

#### **Skin reactions**

Very rarely, severe blistering skin conditions that can be lifethreatening may occur. Redness, often associated with blisters, may appear on the skin or on mucous membranes, such as inside the mouth, the genital areas or the eyelids, and fever may be present. Tell your doctor immediately if you experience any of these symptoms.

### Other side effects include:

a) If you or your child are being treated for non-Hodgkin's Lymphoma or chronic lymphocytic leukaemia

Very common side effects (may affect more than 1 in

- 10 people): · bacterial or viral infections, bronchitis
- · low number of white blood cells, with or without fever or
- blood cells called "platelets"
- feeling sick (nausea) • bald spots on the scalp, chills, headache
- lower immunity because of lower levels of anti-bodies called "immunoglobulins" (IgG) in the blood which help protect against infection
- Common side effects (may affect up to 1 in 10 people): infections of the blood (sepsis), pneumonia, shingles, cold, bronchial tube infections, fungal infections, infections of
- unknown origin, sinus inflammation, hepatitis B • low number of red blood cells (anaemia), low number of
- all blood cells
- allergic reactions (hypersensitivity) · high blood sugar level, weight loss, swelling in the face and
- body, high levels of the enzyme "LDH" in the blood, low calcium levels in the blood • unusual feelings of the skin – such as numbness, tingling,
- pricking, burning, a creeping skin feeling, reduced sense of
- feeling restless, problems falling asleep · becoming very red in the face and other areas of the skin
- as a consequence of dilation of the blood vessels feeling dizzy or anxious • producing more tears, tear duct problems, inflamed eye
- (conjunctivitis)
- ringing sound in the ears, ear pain • heart problems – such as heart attack, uneven or fast heart
- · high or low blood pressure (low blood pressure especially when standing upright)
- tightening of the muscles in the airways which causes wheezing (bronchospasm), inflammation, irritation in the
- lungs, throat or sinuses, being short of breath, runny nose • being sick (vomiting), diarrhoea, pain in the stomach, irritation or ulcers in the throat and mouth, problems
- swallowing, constipation, indigestion · eating disorders, not eating enough, leading to weight loss
- hives, increased sweating, night sweats • muscle problems – such as tight muscles, joint or muscle
- pain, back and neck pain tumour pain
- general discomfort or feeling uneasy or tired, shaking, signs
- multiple-organ failure.
- Uncommon side effects (may affect up to 1 in 100 people): blood clotting problems, decrease of red blood cell production and increase of red blood cell destruction (aplastic haemolytic anaemia), swollen or enlarged lymph
- nodes low mood and loss of interest or enjoyment in doing things,
- feeling nervous • taste problems - such as changes in the way things taste • heart problems – such as reduced heart rate or chest pain
- asthma, too little oxygen reaching the body organs · swelling of the stomach.
- Very rare side effects (may affect up to 1 in 10,000 people) short term increase in the amount of some types of antibodies in the blood (called Immunoglobulins – IgM), chemical disturbances in the blood caused by break-down
- of dying cancer cells • nerve damage in arms and legs, paralysed face
- heart failure inflammation of blood vessels including those leading to skin symptoms
- respiratory failure damage to the intestinal wall (perforation)
- · severe skin problems causing blisters that can be lifethreatening. Redness, often associated with blisters, may appear on the skin or on mucous membranes, such as inside the mouth, the genital areas or the eyelids, and fever may be present. kidney failure
- severe vision loss Not known (it is not known how often these side effects happen):
- a reduction in white blood cells which does not happen straight away • reduced platelets number just after the infusion – this can
- be reversed, but can be fatal in rare cases hearing loss, loss of other senses

#### Children and adolescents with non-Hodgkin's lymphoma:

In general, side effects in children and adolescents with non-Hodgkin's lymphoma were similar to those in adults with non-Hodgkin's lymphoma or chronic lymphocytic leukaemia. The most common side effects seen were fever associated with low levels of a type of white blood cell (neutrophil), inflammation or sores in the lining of the mouth, and allergic reactions (hypersensitivity).

## b) If you are being treated for rheumatoid arthritis

Very common side effects (may affect more than 1 in 10 people): Infections such as pneumonia (bacterial)

- Pain on passing water (urinary tract infection)
- Allergic reactions that are most likely to occur during an infusion, but can occur up-to 24-hours after infusion

- If you are having Rixathon with other medicines, some of the side effects you may get may be due to the other medicines. Changes in laboratory tests carried out by your doctor.
- These include a decrease in the amount of some specific proteins in the blood (immunoglobulins) which help protect against infection.
- Common side effects (may affect up to 1 in 10 people):

• Changes in blood pressure, nausea, rash, fever, feeling

- Infections such as bronchial tube inflammation (bronchitis) • A feeling of fullness or a throbbing pain behind the nose, cheeks and eyes (sinusitis), pain in the abdomen, vomiting and diarrhoea, breathing problems
- Fungal foot infection (athlete's foot) High cholesterol levels in the blood
- Abnormal sensations of the skin, such as numbness,
- tingling, pricking or burning, sciatica, migraine, dizziness
- Loss of hair Anxiety, depression
- Indigestion, diarrhoea, acid reflux, irritation and/or ulceration of the throat and the mouth
- Pain in the tummy, back, muscles and/or joints

#### Uncommon side effects (may affect up to 1 in 100 people): • Excess fluid retention in the face and body

- Inflammation, irritation and/or tightness of the lungs, and throat, coughing
- Skin reactions including hives, itching and rash Allergic reactions including wheezing or shortness of breath, swelling of the face and tongue, collapse
- Very rare side effects (may affect up to 1 in 10,000 people): A complex of symptoms occurring within a few weeks of an infusion of rituximab including allergic like reactions such as rash, itching, joint pain, swollen lymph glands and fever
- Severe blistering skin conditions that can be life-threatening. Redness, often associated with blisters, may appear on the skin or on mucous membranes, such as inside the mouth, the genital areas or the eyelids, and fever may be present.

Other rarely-reported side-effects due to rituximab include a decreased number of white cells in the blood (neutrophils) that help to fight against infection. Some infections may be severe (please see information on Infections within this

### c) If you or your child are being treated for granulomatosis with polyangiitis or microscopic

Very common side effects (may affect more than 1 in 10 people): • infections, such as chest infections, urinary tract infections

(pain on passing water), colds and herpes infections

- allergic reactions that are most likely to occur during an
- infusion, but can occur up-to 24-hours after infusion diarrhoea
- coughing or shortness of breath nose bleeds
- raised blood pressure painful joints or back
- muscle twitches or shakiness
- feeling dizzy tremors (shakiness, often in the hands)
- swelling of the hands or ankles
- Common side effects (may affect up to 1 in 10 people): indigestion
- constipation • skin rashes, including acne or spots

tight or painful muscles

difficulty sleeping (insomnia)

- flushing or redness of the skin
- blocked or runny nose

low numbers of platelets in the blood

 pain in the muscles or in the hands or feet • low number of red blood cells (anaemia)

• an increase in the amount of notassium in the blood

• changes in the rhythm of the heart, or the heart beating faster than normal Very rare side effects (may affect up to 1 in 10,000 people): severe blistering skin conditions that can be life-threatening.

Redness, often associated with blisters, may appear on the

skin or on mucous membranes, such as inside the mouth,

### the genital areas or the eyelids, and fever may be present. • recurrence of a previous Hepatitis B infection

Children and adolescents with granulomatosis with polyangiitis or microscopic polyangiitis In general, side effects in children and adolescents with granulomatosis with polyangiitis or microscopic polyangiitis were of a similar type to those in adults with granulomatosis with polyangiitis or microscopic polyangiitis. Most common side effects seen were infections, allergic reactions and feeling sick (nausea).

### d) If you are being treated for pemphigus vulgaris

Very common side effects (may affect more than 1 in 10 people): • allergic reactions that are most likely to occur during an

infusion, but can occur up to 24 hours after infusion

- infections such as chest infections long lasting depression
- Common side effects (may affect up to 1 in 10 people): infections such as common cold, herpes infections, eye infection, oral thrush and urinary tract infections (pain on
- passing urine) mood disorders such as irritability and depression • skin disorders such as itching, hives, and benign lumps
- feeling tired or dizzy • painful joints or back

pain in the tummy

headache

- pain in the muscles heart beating faster than normal

- itchy, runny or blocked nose and sneezing, shaking, rapid out by your doctor. heartbeat, and tiredness
- Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any side effects not listed in this leaflet. You can also report side effects directly

(see details below). By reporting side effects you can help provide more information on the safety of this medicine.

Rixathon may also cause changes in laboratory tests carried

# Yellow Card Scheme

Website: www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store.

### 5 How to store Rixathon

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

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

Store in a refrigerator  $(2^{\circ}C - 8^{\circ}C)$ .

Keep the container in the outer carton in order to protect from

This medicine can also be stored in the original carton outside of refrigerated storage up to a maximum of 30°C for a single period of up to 7 days, but not beyond the original expiry date. In this situation, do not return to the refrigerated storage again. Write the new expiry date on the carton including day/month/year. Discard this medicine if not used by the new expiry date or the expiry date printed on the carton,

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

### 6 Contents of the pack and other information

# What Rixathon contains

- The active substance in Rixathon is called rituximab. The 10 mL vial contains 100 mg of rituximab (10 mg/mL). The 50 mL vial contains 500 mg of rituximab (10 mg/mL).
- The other ingredients are sodium citrate, polysorbate 80, sodium chloride, sodium hydroxide, hydrochloric acid and water for injections (see section 2).

What Rixathon looks like and contents of the pack

#### Rixathon is a clear, colourless to slightly yellowish solution, supplied as a concentrate for solution for infusion. 10 mL vial - Pack of 2 or 3 vials.

50 mL vial - Pack of 1 or 2 vials. **Marketing Authorisation Holder** Sandoz GmbH

Biochemiestr. 10

Biochemiestr. 10

Verovškova 57

1526 Ljubljana

#### 6250 Kundl Austria Manufacturer

Sandoz GmbH Schaftenau

6336 Langkampfen Austria Lek Pharmaceuticals d.d. Ljubljana

Slovenia

This leaflet was last revised in 03/2022.

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Rixathon® DUC ®montante for solution for infusion

Rixathon® 100 mg concentrate for solution for infusion

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