# Voriconazole Rowex 200 mg Powder for Solution for Infusion

voriconazole

## Read all of this leaflet carefully before you start taking this medicine because it contains important information for you Keep this leaflet. You may need to read it again.

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 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 Voriconazole Rowex is and what it is used for

- 2. What you need to know before you take Voriconazole Rowex
- 3. How to use Voriconazole Rowex
- 4. Possible side effects 5. How to store Voriconazole Rowex
- 6. Contents of the pack and other information
- What Voriconazole Rowex is and what it is used for

#### substance voriconazole. Voriconazole Rowex is an antifungal medicine. It works by killing or stopping the growth of the

Voriconazole Rowex contains the active

fungi that cause infections. It is used for the treatment of patients (adults and children over the age of 2) with: invasive aspergillosis (a type of fungal

infection due to Aspergillus sp), · candidaemia (another type of fungal infection due to Candida sp) in non-

- neutropenic patients (patients without abnormally low white blood cells count),
- serious invasive Candida sp. infections when the fungus is resistant to fluconazole (another antifungal medicine),

serious fungal infections caused by

Scedosporium sp. or Fusarium sp. (two different species of fungi). Voriconazole Rowex is intended for patients with worsening, possibly lifethreatening, fungal infections.

Prevention of fungal infections in high risk bone marrow transplant recipients. This product should only be used under the supervision of a doctor.

What you need to 2 know before you take Voriconazole Rowex

#### Do not take Voriconazole Rowex: If you are allergic to the active ingredient voriconazole, or to sulphobutylether beta cyclodextrin sodium (listed in section 6). It is very important that you inform your

#### doctor or pharmacist if you are taking or have taken any other medicines, even those

that are obtained without a prescription, or herbal medicines. The medicines in the following list must not be taken during your Voriconazole Rowex

 Terfenadine (used for allergy) Astemizole (used for allergy) Cisapride (used for stomach problems) • Pimozide (used for treating mental illness) Quinidine (used for irregular heartbeat) Rifampicin (used for treating tuberculosis)

- Efavirenz (used for treating HIV) in doses of 400 mg and above once daily Carbamazepine (used to treat seizures)
- Phenobarbital (used for severe insomnia and seizures) Ergot alkaloids (e.g. ergotamine, dihydroergotamine; used for migraine)

Sirolimus (used in transplant patients)

- Ritonavir (used for treating HIV) in doses of 400 mg and more twice daily • St John's Wort (herbal supplement).
- Warnings and precautions Talk to your doctor, pharmacist or nurse before taking Voriconazole Rowex if: you have had an allergic reaction to

you are suffering from, or have ever

#### suffered from liver disease. If you have liver disease, your doctor may prescribe a lower dose of Voriconazole Rowex.

other azoles

Your doctor should also monitor your liver function while you are being treated with Voriconazole Rowex by doing blood tests.

irregular heartbeat, slow heart rate or an abnormality of electrocardiogram (ECG) called 'long QT syndrome'. You should avoid any sunlight and sun exposure while being treated. It is important to cover sun exposed areas of skin and use sunscreen with high sun protection

factor (SPF), as an increased sensitivity of

skin to the sun's UV rays can occur. These

precautions are also applicable to children.

you are known to have cardiomyopathy,

While being treated with Voriconazole Rowex: tell your doctor immediately if you develop o sunburn o severe skin rash or blisters

If you develop skin disorders as described above, your doctor may refer you to a

dermatologist, who after consultation may

decide that it is important for you to be

seen on a regular basis. There is a small

chance that skin cancer could develop with

Voriconazole Rowex should not be given to

long term use of Voriconazole Rowex. Your doctor should monitor the function of your liver and kidney by doing blood tests.

Children and adolescents

o bone pain

Tell your doctor if you are taking either of the following medicines, as treatment with Voriconazole Rowex at the same time should be avoided if possible, and a dose adjustment of voriconazole may be

Rifabutin (used for treating tuberculosis).

If you are already being treated with rifabutin your blood counts and side

of 100 mg twice daily

required:

will need to be monitored during your

or monitoring may be required to check

that the medicines and/ or Voriconazole

Rowex are still having the desired effect:

Warfarin and other anticoagulants (e.g. phenprocoumon, acenocoumarol; used to slow down clotting of the blood) · Ciclosporin (used in transplant patients) Tacrolimus (used in transplant patients) Sulphonylureas (e.g. tolbutamide, glipizide, and glyburide) (used for

- contraceptives, you may get side effects such as nausea and menstrual disorders) Vinca alkaloids (e.g. vincristine and
- inhibitors (used for treating HIV) Non-nucleoside reverse transcriptase inhibitors (e.g. efavirenz, delavirdine,

vinblastine) (used in treating cancer)

• Indinavir and other HIV protease

 Methadone (used to treat heroin addiction) Alfentanil and fentanyl and other short acting opiates such as sufentanil (painkillers used for surgical procedures)

 Oxycodone and other long acting opiates such as hydrocodone (used for

- (e.g. ibuprofen, diclofenac) (used for treating pain and inflammation)
- Everolimus (used for treating advanced kidney cancer and in transplant patients).

Pregnancy and breast-feeding Voriconazole Rowex must not be used during pregnancy, unless indicated by your doctor. Effective contraception must be used in women of childbearing potential. Contact your doctor immediately if you become pregnant while being treated with Voriconazole Rowex.

If you are pregnant or breast-feeding, think

have a baby, ask your doctor or pharmacist

you may be pregnant or are planning to

for advice before taking this medicine.

children younger than 2 years of age. Other medicines and Voriconazole condition improves. Rowex Tell your doctor or pharmacist if you are stopped by your doctor you should not taking, have recently taken or might take experience any effects. any other medicines, including those that are obtained without a prescription. If you have any further questions on the Some medicines, when taken at the same use of this medicine, ask your doctor, time as Voriconazole Rowex, may affect pharmacist or nurse. the way Voriconazole Rowex works or Voriconazole Rowex may affect the way 4. Possible side effects Like all medicines, this medicine can cause Tell your doctor if you are taking the side effects, although not everybody gets

effects to rifabutin will need to be monitored. Phenytoin (used to treat epilepsy). If you are already being treated with phenytoin

diabetes) • Statins (e.g. atorvastatin, simvastatin) (used for lowering cholesterol) Benzodiazepines (e.g. midazolam, Omeprazole (used for treating ulcers)

nevirapine) (used for treating HIV) (some

following medicine, as treatment with Voriconazole Rowex at the same time should be avoided if possible: Ritonavir (used for treating HIV) in doses

including blurred vision, visual colour alterations, abnormal intolerance your blood concentration of phenytoin to visual perception of light, colour treatment with Voriconazole Rowex and your dose may be adjusted. Tell your doctor if you are taking any of the following medicines, as a dose adjustment

triazolam) (used for severe insomnia and Oral contraceptives (if you take Voriconazole Rowex whilst using oral

doses of efavirenz can NOT be taken at the same time as Voriconazole Rowex)

moderate to severe pain) Non-steroidal anti-inflammatory drugs Fluconazole (used for fungal infections)

# Driving and using machines

ROWEX

#### tools or machines. Tell your doctor if you experience this.

Rowex

doctor if you are not sure.

Voriconazole Rowex contains sodium and sulfobutylether-β-cyclodextrin sodium This medicine contains 228.7 mg of sodium

Voriconazole Rowex may cause blurring of

vision or uncomfortable sensitivity to light. While affected, do not drive or operate any

#### (main component of cooking/table salt) in each vial. This is equivalent to 11.4% of the recommended maximum daily dietary intake of sodium for an adult.

This medicine contains 3.4 g sulfobutylether-β-cyclodextrin sodium in each vial. If you have a kidney disease, talk to your doctor before you receive this

How to use Voriconazole

Always take this medicine exactly as your

doctor has told you. Check with your

Your doctor will determine your dose depending on your weight and the type of infection you have. Your doctor may change your dose

(including elderly patients) is as follows:

Intravenous Dose for the first 6 mg/kg every 12 hours for the first

(Loading Dose)

depending on your condition. The recommended dose for adults

Dose after the first 4 mg/kg twice a 24 hours (Maintenance Dose) Depending on your response to treatment, your doctor may decrease the dose to 3 mg/kg twice daily.

24 hours

The doctor may decide to decrease the dose if you have mild to moderate cirrhosis. Use in children and adolescents The recommended dose for children and teenagers is as follows: Intravenous Children Teenagers aged 12 to aged 2 to less

	14 years weighing less than 50 kg	all teenagers older than 14				
Dose for the first 24 hours	9 mg/ kg every	6 mg/ kg every				
(Loading Dose)	12 hours for the first 24 hours	12 hours for the first 24 hours				
Dose after the first 24 hours (Maintenance Dose)	8 mg/kg twice a day	4 mg/kg twice a day				
Depending on your response to treatment, your doctor may increase or decrease the daily dose.						
Voriconazole Rowex powder for solution for infusion will be reconstituted and diluted to the correct concentration by your hospital pharmacist or nurse. (Please refer to the end of this leaflet for further information).						
This will be alway to you by introversing						

3 mg/kg per hour over 1 to 3 hours. If you or your child are taking Voriconazole Rowex for prevention of fungal infections, your doctor may stop giving Voriconazole

Rowex if you or your child develop

treatment related side effects.

doctor or pharmacist if you think that a dose has been forgotten. If you stop taking Voriconazole Rowex

Voriconazole Rowex treatment will continue

for as long as your doctor advises, however duration of treatment with Voriconazole

Rowex powder for solution for infusion

When Voriconazole Rowex treatment is

If any side effects occur, most are likely to be minor and temporary. However, some may be serious and need medical attention. Serious side effects - Stop taking Voriconazole Rowex and see a doctor

#### blindness, eye disorder, halo vision, night blindness, swinging vision, seeing sparks, visual aura, visual acuity reduced, visual brightness, loss of part of the usual field of vision, spots before the eyes) Fever

- of the gums, chills, weakness · Low numbers of some types, including severe, of red (sometimes immune-related) and/or white blood cells (sometimes with fever), low numbers of cells called platelets that help the blood to clot Low blood sugar, low blood potassium, low sodium in the blood Anxiety, depression, confusion, agitation, inability to sleep, hallucinations Seizures, tremors or uncontrolled muscle movements, tingling or abnormal skin
- fainting Low blood pressure, inflammation of a vein (which may be associated with the formation of a blood clot)
- Acute breathing difficulty, chest pain, swelling of the face (mouth, lips and around eyes), fluid accumulation in the • Constipation, indigestion, inflammation of the lips
- characterised by a flat, red area on the
- Kidney failure, blood in the urine, changes in kidney function tests. Uncommon side effects (may affect up to 1

years than 12 years and weighing teenagers 50 kg or teenagers more; and aged 12 to

	50 kg						
Dose for the first 24 hours (Loading Dose)	9 mg/ kg every 12 hours for the first 24 hours	6 mg/ kg every 12 hours for the first 24 hours					
Dose after the first 24 hours (Maintenance Dose)	8 mg/kg twice a day	4 mg/kg twice a day					
Depending on your response to treatment, your doctor may increase or decrease the daily dose.							
Voriconazole Rowex powder for solution for infusion will be reconstituted and diluted to the correct concentration by your hospital pharmacist or nurse. (Please refer to the end of this leaflet for further information).							
This will be given to you by intravenous infusion (into a vein) at a maximum rate of 3 mg/kg per hour over 1 to 3 hours.							

If a dose of Voriconazole Rowex has been forgotten As you will be given this medicine under close medical supervision, it is unlikely that a dose would be missed. However tell your

should be no more than 6 months. Patients with a weakened immune system or those with difficult infections may require long term treatment to prevent the infection from returning. You may be switched from the intravenous infusion to tablets once your

immediately Rash

Jaundice; Changes in blood tests of liver

Very common side effects (may affect

Visual impairment (change in vision

more than 1 in 10 people) are:

function

Rash

10 people) are:

Pancreatitis.

Other side effects

#### Nausea, vomiting, diarrhoea Headache Swelling of the extremities • Stomach pains Breathina diffici • Elevated liver enzymes.

Common side effects (may affect up to 1 in

Inflammation of the sinuses, inflammation

sensations, increase in muscle tone, sleepiness, dizziness Bleeding in the eye Heart rhythm problems including very fast heartbeat, very slow heartbeat,

liver injury

- Jaundice, inflammation of the liver and
- Skin rashes which may lead to severe blistering and peeling of the skin
- skin that is covered with small confluent bumps, redness of the skin Itchiness Hair loss Back pain
- in 100 people) are: • Flu-like symptoms, irritation and inflammation of the gastrointestinal tract, inflammation of the gastrointestinal tract

causing antibiotic associated diarrhoea,

inflammation of the lymphatic vessels • Inflammation of the thin tissue that lines

- the inner wall of the abdomen and covers the abdominal organ
- Enlarged lymph glands (sometimes painful), failure of blood marrow, increased eosinophil · Depressed function of the adrenal gland,
- underactive thyroid gland Abnormal brain function, Parkinson-
- like symptoms, nerve injury resulting in numbness, pain, tingling or burning in the hands or feet Problems with balance or coordination Swelling of the brain
- · Double vision, serious conditions of the
- eye including: pain and inflammation
- of the eyes and eyelids, abnormal eye movement, damage to the optic nerve resulting in vision impairment, optic disc swelling Decreased sensitivity to touch Abnormal sense of taste
- · Hearing difficulties, ringing in the ears,
- Inflammation of certain internal organspancreas and duodenum, swelling and inflammation of the tongue
- Enlarged liver, liver failure, gallbladder disease, gallstones Joint inflammation, inflammation of the veins under the skin (which may be
- associated with the formation of a blood clot
- Inflammation of the kidney, proteins in the urine, damage to the kidney Very fast heart rate or skipped heartbeats, sometimes with erratic electrical impulses
- Abnormal electrocardiogram (ECG) · Blood cholesterol increased, blood urea
- increased Allergic skin reactions (sometimes severe), including life-threatening skin condition that causes painful blisters and
- especially in the mouth, inflammation of the skin, hives, sunburn or severe skin reaction following exposure to light or sun, skin redness and irritation, red or purple discolouration of the skin which may be caused by low platelet count, eczema Infusion site reaction · Allergic reaction or exaggerated immune Rare side effects (may affect up to 1 in

sores of the skin and mucous membranes,

1000 people) are: Overactive thyroid gland

movement of the eye

Bullous photosensitivity

- Deterioration of brain function that is a serious complication of liver disease · Loss of most fibers in the optic nerve, clouding of the cornea, involuntary
- A disorder in which the body's immune system attacks part of the peripheral nervous system Heart rhythm or conduction problems (sometimes life threatening)
- Life threatening allergic reaction Disorder of blood clotting system Allergic skin reactions (sometimes severe), including rapid swelling

(oedema) of the dermis, subcutaneous

tissue, mucosa and submucosal tissues,

- itchy or sore patches of thick, red skin with silvery scales of skin, irritation of the skin and mucous membranes, lifethreatening skin condition that causes large portions of the epidermis, the skin's outermost layer, to detach from the layers of skin below Small dry scaly skin patches, sometimes thick with spikes or 'horns'. Side effects with frequency **not known**:
  • Freckles and pigmented spots.
- reported to your doctor immediately: Skin cancer • Inflammation of the tissue surrounding the bone

 Red, scaly patches or ring-shaped skin lesions that may be a symptom of an

Other significant side effects whose

frequency is not known, but should be

autoimmune disease called cutaneous lupus erythematosus. Reactions during the infusion have occurred uncommonly with Voriconazole

increased heart rate and shortness of breath). Your doctor may stop the infusion if

this occurs.

Rowex (including flushing, fever, sweating,

As Voriconazole Rowex has been known to

affect the liver and the kidney, your doctor should monitor the function of your liver and kidney by doing blood tests. Please advise your doctor if you have any stomach pains or if your stools have a different consistency. There have been reports of skin cancer in patients treated with Voriconazole Rowex

Sunburn or severe skin reaction following

exposure to light or sun was experienced

more frequently in children. If you or your

child develops skin disorders, your doctor

for long periods of time.

may refer you to a dermatologist, who after consultation may decide that it is important The following information is intended for medical or healthcare professionals only:

Reconstitution and Dilution information

Chloride for Infusion is dispensed.

containing 0.5 to 5 mg/ml of voriconazole.

• Not for administration as a bolus injection.

10 mg/ml voriconazole.

for you or your child to be seen on a regular basis. Elevated liver enzymes were also observed more frequently in children. If any of these side effects persist or are troublesome, please tell your doctor. Reporting of side effects

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: HPRA Pharmacovigilance; website www.hpra.ie. By reporting side effects you can help provide more information on the safety of this medicine. How to store Voriconazole

## 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 label and carton after 'EXP'. The expiry date refers to the last

day of that month. Store below 30°C. After reconstituted solution: Chemical and physical in-use stability has

been demonstrated for 24 hours at 2°C to 8°C for the reconstituted solution.

After diluted solution for infusion:

Chemical and physical stability of the diluted solutions for infusion has been demonstrated for 3 h at 20°C to 30°C. From a microbiological point of view, once

reconstituted, the product must be used

immediately. If not used immediately, in-use

storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours at  $2^{\circ}\text{C}$  to  $8^{\circ}\text{C}$  (in a refrigerator) unless reconstitution has taken place in controlled and validated aseptic conditions. (Please refer to the end of this leaflet for further information). Do not throw away any medicines via

wastewater or household waste. Ask your

pharmacist how to throw away medicines

you no longer use. These measures will help protect the environment.

Contents of the pack and other information What Voriconazole Rowex contains The active substance is voriconazole. Each vial contains 200 mg powder for

# solution for infusion, equivalent to a 10 mg/ml solution when reconstituted as

this leaflet). The other ingredient is sulfobutylether-βcyclodextrin sodium. What Voriconazole Rowex looks like and contents of the pack Single use 25 ml colourless type I glass

Lek Pharmaceuticals d.d., Verovškova 57, 1526 Ljubljana, Slovenia. Salutas Pharma GmbH, Sachsen-Anhalt, 39179 Barleben, Germany.

This medicinal product is authorised in the Member States of the EEA under the following names: NL Voriconazol Sandoz 200 mg, poeder

# CZ Vorikonazol Sandoz 200 mg prášek pro infuzní roztok Voriconazol HEXAL 200 mg Pulver zur Herstellung einer Infusionslösung ENR

BG Voriconazole Sandoz 200mg Powder

- HR Vorikonazol Sandoz 200 mg prašak za otopinu za infuziju IT Voriconazolo Sandoz GmbH
- This leaflet was last revised in 08/2020. I.M. L/384c 08-20

na infúzny roztok

 It is recommended that a standard 20 ml (non-automated) syringe be used to ensure that the exact amount (19.0 ml) of Water for Injections or of 9 mg/ml (0.9%) Sodium • The required volume of the reconstituted concentrate is then added to a recommended

9 mg/kg

dose (number

of vials)

9.0 ml (1)

13.5 ml (1)

18.0 ml (1)

22.5 ml (2)

27.0 ml (2)

31.5 ml (2)

36.0 ml (2)

# directed by your hospital pharmacist or nurse (see the information at the end of

#### vials closed with lyophilisation rubber stopper and sealed with aluminium flip-off seal with plastic disc and is inserted in a

carton.

Pack sizes:

Manufacturers

1, 5, 10 vials with powder for solution for infusion. Not all pack sizes may be marketed. Marketing Authorisation Holder and Manufacturers Marketing Authorisation Holder Rowex Ltd., Bantry, Co. Cork, Ireland.

voor oplossing voor infusie BE Voriconazol Sandoz 200 mg poeder voor oplossing voor infusie

for solution for infusion

for Solution for Infusion

### 2189283 DK Voriconazole Sandoz EL Voriconazole /Sandoz

Voriconazole Rowex 200 mg Powder

NO Voriconazole Sandoz Voriconazole Sandoz Vorikonazol Sandoz 200 mg prašek za raztopino za infundiranje

SK Vorikonazol Sandoz 200 mg prášok

8 mg/kg

dose (number

of vials)

8.0 ml (1)

12.0 ml (1)

16.0 ml (1)

20.0 ml (1)

24.0 ml (2)

28.0 ml (2)

32.0 ml (2)

Required Volumes of 10 mg/ml Voriconazole Concentrate Body Volume of Voriconazole Concentrate (10 mg/ml) required for: Weight

4 mg/kg dose

(number of

vials)

6.0 ml (1)

8.0 ml (1)

10.0 ml (1)

12.0 ml (1)

14.0 ml (1)

16.0 ml (1)

 This medicinal product is for single use only and any unused solution should be discarded and only clear solutions without particles should be used.

Voriconazole Rowex powder for solution for infusion needs to first be reconstituted with either 19 ml of  $\dot{W}$  ater for Injections or 19 ml of 9 mg/ml (0.9%) Sodium Chloride for Infusion to obtain an extractable volume of 20 ml of clear concentrate containing

• Discard the Voriconazole Rowex vial if the vacuum does not pull the diluent into the vial.

compatible infusion solution listed below to obtain a final Voriconazole Rowex solution

For storage information, please refer to Section 5 'How to store Voriconazole Rowex'.

6 mg/kg

dose (number

of vials)

-

-

18.0 ml (1)

21.0 ml (2)

24.0 ml (2)

#### vials) 10 4.0 ml (1)

3 mg/

kg dose

(number of

-

9.0 ml (1)

10.5 ml (1)

12.0 ml (1)

**Compatible Infusion Solutions:** 

The reconstituted solution can be diluted with:

below under 'Incompatibilities') is unknown.

Incompatibilities:

10% Plus).

(kg)

15

20

25

30

35

40

45	13.5 ml (1)	18.0 ml (1)	27.0 ml (2)	36.0 ml (2)	40.5 ml (3)				
50	15.0 ml (1)	20.0 ml (1)	30.0 ml (2)	40.0 ml (2)	45.0 ml (3)				
55	16.5 ml (1)	22.0 ml (2)	33.0 ml (2)	44.0 ml (3)	49.5 ml (3)				
60	18.0 ml (1)	24.0 ml (2)	36.0 ml (2)	48.0 ml (3)	54.0 ml (3)				
65	19.5 ml (1)	26.0 ml (2)	39.0 ml (2)	52.0 ml (3)	58.5 ml (3)				
70	21.0 ml (2)	28.0 ml (2)	42.0 ml (3)	-	-				
75	22.5 ml (2)	30.0 ml (2)	45.0 ml (3)	-	-				
80	24.0 ml (2)	32.0 ml (2)	48.0 ml (3)	-	-				
85	25.5 ml (2)	34.0 ml (2)	51.0 ml (3)	-	-				
90	27.0 ml (2)	36.0 ml (2)	54.0 ml (3)	-	-				
95	28.5 ml (2)	38.0 ml (2)	57.0 ml (3)	-	-				
100	30.0 ml (2)	40.0 ml (2)	60.0 ml (3)	-	-				
Voriconazole Rowex is a single dose unpreserved sterile lyophilisate. Therefore, from a microbiological point of view, the reconstituted solution must be used immediately. If not									

9 mg/ml (0.9%) Sodium Chloride for Infusion Compound Sodium Lactate Intravenous Infusion 5% Glucose and Lactated Ringer's Intravenous Infusion 5% Glucose and 0.45% Sodium Chloride Intravenous Infusion 5% Glucose Intravenous Infusion 5% Glucose in 20 mEq Potassium Chloride Intravenous Infusion 0.45% Sodium Chloride Intravenous Infusion 5% Glucose and 0.9% Sodium Chloride Intravenous Infusion

The compatibility of Voriconazole Rowex with diluents other than listed above (or listed

Voriconazole Rowex solution must not be infused into the same line or cannula concomitantly with other drug infusions, including parenteral nutrition (e.g., Aminofusin

Infusions of blood products must not occur simultaneously with Voriconazole Rowex.

used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours at 2 to 8°C, unless reconstitution has taken place in controlled and validated aseptic conditions.

Infusion of total parenteral nutrition can occur simultaneously with Voriconazole Rowex but not in the same line or cannula. Voriconazole Rowex must not be diluted with 4.2% Sodium Bicarbonate Infusion.