Package Leaflet: Information for the user
VFEND ® 200 mg powder and solvent 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 VFEND is and what it is used for
2. What you need to know before you take VFEND
3. How to use VFEND
4. Possible side effects
5. How to store VFEND
6. Content of the pack and other information

1. What VFEND is and what it is used for
VFEND contains the active substance voriconazole. VFEND is an antifungal medicine. It works by killing or stopping the growth of the 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).

VFEND is intended for patients with worsening, possibly life-threatening, 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.

2. What you need to know before you take VFEND

Do not take VFEND
- If you are allergic to the active ingredient voriconazole, or to sulfobutylether 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 VFEND treatment:

- Terfenadine (used for allergy)
- Astemizole (used for allergy)
- Cisapride (used for stomach problems)
- Pimozide (used for treating mental illness)
- Quinidine (used for irregular heart beat)
- 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 400mg and more twice daily
- St. John’s Wort (herbal supplement)

**Warnings and precautions**

Talk to your doctor, pharmacist or nurse before taking VFEND if:

- you have had an allergic reaction to other azoles.
- you are suffering from, or have ever suffered from liver disease. If you have liver disease, your doctor may prescribe a lower dose of VFEND. Your doctor should also monitor your liver function while you are being treated with VFEND by doing blood tests.
- you are known to have cardiomyopathy, irregular heart beat, slow heart rate or an abnormality of electrocardiogram (ECG) called ‘long QTc 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.

While being treated with VFEND:

- tell your doctor immediately if you develop
  - sunburn
  - severe skin rash or blisters
  - bone pain

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 long-term use of VFEND.

If you develop signs of ‘adrenal insufficiency’ where the adrenal glands do not produce adequate amounts of certain steroid hormones such as cortisol which may lead to symptoms such as: chronic, or long lasting fatigue, muscle weakness, loss of appetite, weight loss, abdominal pain, please tell your doctor.

Your doctor should monitor the function of your liver and kidney by doing blood tests.

**Children and adolescents**
VFEND should not be given to children younger than 2 years of age.

**Other medicines and VFEND**

Please tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines, including those that are obtained without a prescription.

- Some medicines, when taken at the same time as VFEND, may affect the way VFEND works or VFEND may affect the way they work.

Tell your doctor if you are taking the following medicine, as treatment with VFEND at the same time should be avoided if possible:

- Ritonavir (used for treating HIV) in doses of 100 mg twice daily

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

- Rifabutin (used for treating tuberculosis). If you are already being treated with rifabutin your blood counts and side effects to rifabutin will need to be monitored.
- Phenytoin (used to treat epilepsy). If you are already being treated with phenytoin your blood concentration of phenytoin will need to be monitored during your treatment with VFEND and your dose may be adjusted.

Tell your doctor if you are taking any of the following medicines, as a dose adjustment or monitoring may be required to check that the medicines and/ or VFEND 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)
- Sulfonylureas (e.g., tolbutamide, glipizide, and glyburide) (used for diabetes)
- Statins (e.g., atorvastatin, simvastatin) (used for lowering cholesterol)
- Benzodiazepines (e.g midazolam, triazolam) (used for severe insomnia and stress)
- Omeprazole (used for treating ulcers)
- Oral contraceptives (if you take VFEND whilst using oral contraceptives, you may get side effects such as nausea and menstrual disorders)
- Vinca alkaloids (e.g., vincristine and vinblastine) (used in treating cancer)
- Indinavir and other HIV protease inhibitors (used for treating HIV)
- Non-nucleoside reverse transcriptase inhibitors (e.g., efavirenz, delavirdine, nevirapine) (used for treating HIV) (some doses of efavirenz can NOT be taken at the same time as VFEND)
- 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 moderate to severe pain)
- Non-steroidal anti-inflammatory drugs (e.g., ibuprofen, diclofenac) (used for treating pain and inflammation)
- Fluconazole (used for fungal infections)
- Everolimus (used for treating advanced kidney cancer and in transplant patients)
• Tolvaptan (used to treat hyponatremia (low levels of sodium in your blood) or to slow kidney function decline in patients with polycystic kidney disease)
• Letermovir (used for preventing cytomegalovirus (CMV) disease after bone marrow transplant)
• Naloxegol: used to treat constipation specifically caused by pain medicines, called opioids, (e.g., morphine, oxycodone, fentanyl, tramadol, codeine)
• Ivacaftor: used to treat cystic fibrosis

Pregnancy and breast-feeding
VFEND 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 VFEND.

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.

Driving and using machines
VFEND may cause blurring of vision or uncomfortable sensitivity to light. While affected, do not drive or operate any tools or machines. Tell your doctor if you experience this.

VFEND contains sodium
This medicine contains 221 mg of sodium (main component of cooking/table salt) per vial. This is equivalent to 11% of the recommended maximum daily dietary intake of sodium for an adult.

VFEND contains cyclodextrins
This medicine contains 3,200 mg cyclodextrins in each vial which is equivalent to 160 mg/ml when reconstituted in 20 ml. If you have a kidney disease, talk to your doctor before you receive this medicine.

3. How to use VFEND
Always take this medicine exactly as your doctor has told you. Check with your doctor if you are not sure.

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

Your doctor may change your dose depending on your condition.

The recommended dose for adults (including elderly patients) is as follows:

<table>
<thead>
<tr>
<th></th>
<th>Intravenous</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dose for the first 24 hours</strong>&lt;br&gt;(Loading Dose)</td>
<td>6 mg/kg every 12 hours for the first 24 hours</td>
</tr>
<tr>
<td><strong>Dose after the first 24 hours</strong>&lt;br&gt;(Maintenance Dose)</td>
<td>4 mg/kg twice a day</td>
</tr>
</tbody>
</table>

Depending on your response to treatment, your doctor may decrease the dose to 3 mg/kg
twice daily.

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:

<table>
<thead>
<tr>
<th>Intravenous</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dose for the first 24 hours</strong></td>
<td></td>
</tr>
<tr>
<td><strong>(Loading Dose)</strong></td>
<td>Children aged 2 to less than 12 years and teenagers aged 12 to 14 years weighing less than 50 kg</td>
</tr>
<tr>
<td>9 mg/kg every 12 hours for the first 24 hours</td>
<td>6 mg/kg every 12 hours for the first 24 hours</td>
</tr>
<tr>
<td><strong>Dose after the first 24 hours</strong></td>
<td></td>
</tr>
<tr>
<td><strong>(Maintenance Dose)</strong></td>
<td>8 mg/kg twice a day</td>
</tr>
</tbody>
</table>

Depending on your response to treatment, your doctor may increase or decrease the daily dose.

VFEND powder and solvent 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 you or your child are taking VFEND for prevention of fungal infections, your doctor may stop giving VFEND if you or your child develop treatment related side effects.

**If a dose of VFEND 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 doctor or pharmacist if you think that a dose has been forgotten.

**If you stop taking VFEND**
VFEND treatment will continue for as long as your doctor advises, however duration of treatment with VFEND powder for solution for infusion 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 condition improves.

When VFEND treatment is stopped by your doctor you should not experience any effects.

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.

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 VFEND and see a doctor immediately**
- Rash
- Jaundice; Changes in blood tests of liver function
- Pancreatitis

**Other side effects**

Very common: may affect more than 1 in 10 people
- Visual impairment (change in vision including blurred vision, visual colour alterations, abnormal intolerance to visual perception of light, colour 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
- Rash
- Nausea, vomiting, diarrhoea
- Headache
- Swelling of the extremities
- Stomach pains
- Breathing difficulties
- Elevated liver enzymes

Common: may affect up to 1 in 10 people
- Inflammation of the sinuses, inflammation 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 sensations, increase in muscle tone, sleepiness, dizziness
- Bleeding in the eye
- Heart rhythm problems including very fast heartbeat, very slow heartbeat, 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 lungs
- Constipation, indigestion, inflammation of the lips
- Jaundice, inflammation of the liver and liver injury
- Skin rashes which may lead to severe blistering and peeling of the skin characterized by a flat, red area on the skin that is covered with small confluent bumps, redness of the skin
- Itchiness
- Hair loss
- Back pain
- Kidney failure, blood in the urine, changes in kidney function tests

Uncommon: may affect up to 1 in 100 people

- 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, vertigo
- Inflammation of certain internal organs- pancreas 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 sores of the skin and mucous membranes, 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 discoloration of the skin which may be caused by low platelet count, eczema
- Infusion site reaction
- Allergic reaction or exaggerated immune response

Rare: may affect up to 1 in 1000 people

- Overactive thyroid gland
- Deterioration of brain function that is a serious complication of liver disease
- Loss of most fibres in the optic nerve, clouding of the cornea, involuntary movement of the eye
- Bullous photosensitivity
- 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, life-threatening 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

Other significant side effects whose frequency is not known, but should be 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 autoimmune disease called cutaneous lupus erythematosus

Reactions during the infusion have occurred uncommonly with VFEND (including flushing, fever, sweating, increased heart rate and shortness of breath). Your doctor may stop the infusion if this occurs.

As VFEND 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 VFEND for long periods of time.

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 may refer you to a dermatologist, who after consultation may decide that it is important 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 (see details below). By reporting side effects you can help provide more information on the safety of this medicine.

**United Kingdom**
Yellow Card Scheme website: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.

**Ireland**
HPRA Pharmacovigilance. Website: [www.hpра.ie](http://www.hpра.ie).

**Malta**
ADR Reporting
Website: [www.medicinesauthority.gov.mt/adrportal](http://www.medicinesauthority.gov.mt/adrportal)
5. How to store VFEND

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. The expiry date refers to the last day of that month.

Once the powder in the vial has been reconstituted, VFEND should be used immediately, but if necessary may be stored for up to 24 hours at 2°C - 8°C (in a refrigerator) with the infusion bag. Reconstituted VFEND concentrate needs to be further diluted with sodium chloride (0.9%) infusion solution within the infusion bag before it is infusd. The bag containing the reconstituted and diluted VFEND should be used immediately, but if necessary may be stored for up to a total of 24 hours at 2°C - 8°C (in a refrigerator) or at room temperature. (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 required. These measures will help protect the environment.

6. Contents of the pack and other information

What VFEND contains

- The active substance is voriconazole.
- The other ingredient is sulfobutylether beta cyclodextrin sodium (see section 2, VFEND 200 mg powder and solvent for solution for infusion contains cyclodextrin and sodium).

Each vial contains 200 mg voriconazole, equivalent to a 10 mg/ml solution when reconstituted as directed by your hospital pharmacist or nurse (see the information at the end of this leaflet).

Each bag contains 50 ml of sodium chloride 0.9% in Water for Injections.

What VFEND looks like and contents of the pack

VFEND powder and solvent for solution for infusion is presented as an administration kit containing:

- VFEND powder for solution for infusion in single use glass vial.
- VFEND solvent for solution for infusion in an overwrapped, sterile, single use, polypropylene infusion bag.
- A sterile, single use, syringe.
- A sterile, single use vial adapter.

Marketing Authorisation Holder

Pfizer Europe MA EEIG, Boulevard de la Plaine 17, 1050 Bruxelles, Belgium.

Manufacturer

Fareva Amboise, Zone Industrielle, 29 Route des Industries, 37530 Pocé-sur-Cisse, France.

For any information about this medicinal product, please contact the local representative of the Marketing Authorisation Holder:
This leaflet was last approved in 09/2020.

Ref: VF 19_0

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu

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The following information is intended for medical or healthcare professionals only:

Required Volumes of 10 mg/ml VFEND Concentrate

<table>
<thead>
<tr>
<th>Body Weight (kg)</th>
<th>3 mg/kg dose (number of vials)</th>
<th>4 mg/kg dose (number of vials)</th>
<th>6 mg/kg dose (number of vials)</th>
<th>8 mg/kg dose (number of vials)</th>
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<tr>
<td>10</td>
<td>-</td>
<td>4.0 ml (1)</td>
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<tr>
<td>15</td>
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<td>-</td>
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<td>8.0 ml (1)</td>
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<tr>
<td>25</td>
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<td>20.0 ml (1)</td>
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<tr>
<td>30</td>
<td>9.0 ml (1)</td>
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<tr>
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<tr>
<td>80</td>
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<tr>
<td>85</td>
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<tr>
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<td>40.0 ml (2)</td>
<td>60.0 ml (3)</td>
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</tr>
</tbody>
</table>
VFEND is a single dose unpreserved sterile lyophile. Therefore, from a microbiological point of view, the reconstituted solution must be used immediately.

If not used immediately, in-use storage times and conditions of the reconstituted vial 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.

**Incompatibilities:**

VFEND must not be infused into the same line or cannula concomitantly with other drug infusions, including parenteral nutrition (e.g., Aminofusin 10% Plus).

Infusions of blood products must not occur simultaneously with VFEND.

Infusion of total parenteral nutrition can occur simultaneously with VFEND but not in the same line or cannula.

VFEND must not be diluted with 4.2% Sodium Bicarbonate Infusion.
Kit Operating Instructions for Use:
VFEND Powder and Solvent for Solution for Infusion

Critical Instructions for safe and effective use of infusion kit
Aseptic procedures will be followed during kit preparation
Bag must be inverted when the reconstituted Voriconazole is added

Step 1
1a Peel back the seal from the vial adaptor. Do not remove casing.
1b To prepare the IV vial for reconstitution, remove the plastic cap from the vial and wipe the top with an antiseptic swab. Place the vial on a flat surface. Ensure the internal spike of the vial adaptor is placed at the centre of the vial septum and push the adaptor firmly onto the vial until it snaps into place.
Step 2
2a Snap open Blue port. Bend the outer tube by 90° each way to ensure it is fully broken.
2b Push the syringe plunger down fully. Push and screw the syringe securely onto Blue port.
2c Withdraw exactly 19 mL of the solution and unscrew the syringe.

Step 3
3a Remove the adaptor casing from the vial adaptor and discard.
3b Screw the syringe onto the vial adapter. Keeping the vial upright, empty contents of the syringe into the vial.
3c Swirl the vial gently until all the powder is dissolved. Inspect the vial. If particles are seen, swirl again and re-inspect.

Step 4
4  Gently invert the vial. Slowly draw off the required volume of the solution. The potential to block the venting action exists if large amounts of air or drug are injected when the vial is inverted. If this occurs, turn the vial upright and pull the piston up the syringe barrel. When cleared, proceed as directed. Unscrew the syringe and discard the vial adaptor and vial.

Step 5
5a  Invert the infusion bag and screw the syringe into Blue port.
5b  Empty the contents of the syringe into the bag. Remove the syringe. Gently mix the contents of the infusion bag. If any particles are seen, discard the infusion bag.

Step 6
6a  Invert the infusion bag. Open the Twist-off port.
6b  Keeping the infusion bag inverted, connect the infusion line.
6c  Prime the IV line according to the manufacturer’s guidelines. Hang the infusion bag.
Step 7
7a  Attach the IV line to the patient injection site. **Set the infusion rate accurately.**
7b  Once the infusion delivery to the patient starts, do not manually squeeze the bag compartment as this may interfere with the dose delivery to the patient and may cause air ingress into the IV line.