

## **Package leaflet: Information for the user**

### **Pemetrexed Pfizer 25 mg/ml concentrate for solution for infusion** pemetrexed

**Read all of this leaflet carefully before you start receiving 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 or pharmacist or nurse.
- If you get any side effects, talk to your doctor or pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

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

#### **1. What Pemetrexed Pfizer is and what it is used for**

Pemetrexed Pfizer is a medicine used in the treatment of cancer.

Pemetrexed Pfizer is given in combination with cisplatin, another anti-cancer medicine, as treatment for malignant pleural mesothelioma, a form of cancer that affects the lining of the lung, to patients who have not received prior chemotherapy.

Pemetrexed Pfizer is also given in combination with cisplatin for the initial treatment of patients with advanced stage of lung cancer.

Pemetrexed Pfizer can be prescribed to you if you have lung cancer at an advanced stage if your disease has responded to treatment or it remains largely unchanged after initial chemotherapy.

Pemetrexed Pfizer is also a treatment for patients with advanced stage of lung cancer whose disease has progressed after other initial chemotherapy has been used.

#### **2. What you need to know before you use Pemetrexed Pfizer**

##### **Do not use Pemetrexed Pfizer**

- if you are allergic (hypersensitive) to pemetrexed or any of the other ingredients of this medicine (listed in section 6).
- if you are breast-feeding; you must discontinue breast-feeding during treatment with Pemetrexed Pfizer.
- if you have recently received or are about to receive a vaccine against yellow fever.

##### **Warnings and precautions**

Talk to your doctor or hospital pharmacist before receiving Pemetrexed Pfizer.

If you currently have or have previously had problems with your kidneys, talk to your doctor or hospital pharmacist as you may not be able to receive Pemetrexed Pfizer.

Before each infusion you will have samples of your blood taken to evaluate if you have sufficient kidney and liver function and to check that you have enough blood cells to receive Pemetrexed Pfizer.

Your doctor may decide to change the dose or delay treating you depending on your general condition and if your blood cell counts are too low. If you are also receiving cisplatin, your doctor will make sure that you are properly hydrated and receive appropriate treatment before and after receiving cisplatin to prevent vomiting.

If you have had or are going to have radiation therapy, please tell your doctor, as there may be an early or late radiation reaction with Pemetrexed Pfizer.

If you have been recently vaccinated, please tell your doctor, as this can possibly cause bad effects with Pemetrexed Pfizer.

If you have heart disease or a history of heart disease, please tell your doctor.

If you have an accumulation of fluid around your lungs, your doctor may decide to remove the fluid before giving you Pemetrexed Pfizer.

### **Children and adolescents**

This medicine should not be used in children or adolescents, since there is no experience with this medicine in children and adolescents under 18 years of age.

### **Other medicines and Pemetrexed Pfizer**

Please tell your doctor if you are taking any medicine for pain or inflammation (swelling), such as medicines called “nonsteroidal anti-inflammatory drugs” (NSAIDs), including medicines purchased without a doctor’s prescription (such as ibuprofen). There are many sorts of NSAIDs with different durations of activity. Based on the planned date of your infusion of pemetrexed and/or on the status of your kidney function, your doctor needs to advise you on which medicines you can take and when you can take them. If you are unsure, ask your doctor or pharmacist if any of your medicines are NSAIDs.

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

### **Pregnancy**

If you are pregnant, think you may be pregnant or are planning to have a baby, tell your doctor. The use of pemetrexed should be avoided during pregnancy. Your doctor will discuss with you the potential risk of taking pemetrexed during pregnancy. Women must use effective contraception during treatment with pemetrexed and for 6 months after receiving the last dose.

### **Breast-feeding**

If you are breast-feeding, tell your doctor. Breast-feeding must be discontinued during treatment with pemetrexed.

### **Fertility**

Men are advised not to father a child during and up to 3 months following treatment with pemetrexed and should therefore use effective contraception during treatment with pemetrexed and for up to 3 months afterwards. If you would like to father a child during the treatment or in the 3 months following receipt of treatment, seek advice from your doctor or pharmacist. Pemetrexed Pfizer can affect your ability to have children. Talk to your doctor to seek advice about sperm storage before starting your therapy.

### **Driving and using machines**

Pemetrexed Pfizer may make you feel tired. Be careful when driving a car or using machines.

### **Pemetrexed Pfizer contains sodium**

One 4 ml vial contains less than 1 mmol sodium (23 mg), that is to say essentially ‘sodium-free’.

One 20 ml vial contains approximately 54 mg sodium (main component of cooking/table salt). This is equivalent to 2.7% of the recommended maximum daily intake of sodium for an adult.

One 40 ml vial contains approximately 108 mg sodium (main component of cooking/table salt). This is equivalent to 5.4% of the recommended maximum daily intake of sodium for an adult.

### **3. How to use Pemetrexed Pfizer**

The dose of Pemetrexed Pfizer is 500 milligrams for every square metre of your body's surface area. Your height and weight are measured to work out the surface area of your body. Your doctor will use this body surface area to work out the right dose for you. This dose may be adjusted, or treatment may be delayed depending on your blood cell counts and on your general condition. A hospital pharmacist, nurse or doctor will have mixed the Pemetrexed Pfizer concentrate with sodium chloride 9 mg/ml (0.9%) solution for injection before it is given to you.

You will always receive Pemetrexed Pfizer by infusion into one of your veins. The infusion will last approximately 10 minutes.

When using Pemetrexed Pfizer in combination with cisplatin:

The doctor or hospital pharmacist will work out the dose you need based on your height and weight. Cisplatin is also given by infusion into one of your veins, and is given approximately 30 minutes after the infusion of Pemetrexed Pfizer has finished. The infusion of cisplatin will last approximately 2 hours.

You should usually receive your infusion once every 3 weeks.

Additional medicines:

Corticosteroids: your doctor will prescribe you steroid tablets (equivalent to 4 milligrams of dexamethasone twice a day) that you will need to take on the day before, on the day of, and the day after Pemetrexed Pfizer treatment. This medicine is given to you to reduce the frequency and severity of skin reactions that you may experience during your anti-cancer treatment.

Vitamin supplementation: your doctor will prescribe you oral folic acid (vitamin) or a multivitamin containing folic acid (350 to 1,000 micrograms) that you must take once a day while you are taking Pemetrexed Pfizer. You must take at least 5 doses during the seven days before the first dose of Pemetrexed Pfizer. You must continue taking the folic acid for 21 days after the last dose of Pemetrexed Pfizer. You will also receive an injection of vitamin B<sub>12</sub> (1,000 micrograms) in the week before administration of Pemetrexed Pfizer and then approximately every 9 weeks (corresponding to 3 courses of Pemetrexed Pfizer treatment). Vitamin B<sub>12</sub> and folic acid are given to you to reduce the possible toxic effects of the anti-cancer treatment.

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

### **4. Possible side effects**

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

You must contact your doctor immediately if you notice any of the following:

- Fever or infection (respectively, common or very common): if you have a temperature of 38 °C or greater, sweating or other signs of infection (since you might have fewer white blood cells than normal which is very common). Infection (sepsis) may be severe and could lead to death.
- If you start feeling chest pain (common) or having a fast heart rate (uncommon).
- If you have pain, redness, swelling or sores in your mouth (very common).
- Allergic reaction: if you develop skin rash (very common) / burning or prickling sensation (common), or fever (common). Rarely, skin reactions may be severe and could lead to death.

Contact your doctor if you get a severe rash, or itching, or blistering (Stevens-Johnson syndrome or toxic epidermal necrolysis).

- If you experience tiredness, feeling faint, becoming easily breathless or if you look pale (since you might have less haemoglobin than normal which is very common).
- If you experience bleeding from the gums, nose or mouth or any bleeding that would not stop, reddish or pinkish urine, unexpected bruising (since you might have less platelets than normal which is common).
- If you experience sudden breathlessness, intense chest pain or cough with bloody sputum (uncommon) (may indicate a blood clot in the blood vessels of the lungs).

Side effects with pemetrexed may include:

*Very common (may affect more than 1 in 10 people)*

Infection

Pharyngitis (a sore throat)

Low number of neutrophil granulocytes (a type of white blood cell)

Low white blood cells

Low haemoglobin level

Pain, redness, swelling or sores in your mouth

Loss of appetite

Vomiting

Diarrhoea

Nausea

Skin rash

Flaking skin

Abnormal blood tests showing reduced functionality of kidneys

Fatigue (tiredness)

*Common (may affect up to 1 in 10 people)*

Blood infection

Fever with low number of neutrophil granulocytes (a type of white blood cell)

Low platelet count

Allergic reaction

Loss of body fluids

Taste change

Damage to the motor nerves which may cause muscle weakness and atrophy (wasting) primary in the arms and legs

Damage to the sensory nerves that may cause loss of sensation, burning pain and unsteady gait

Dizziness

Inflammation or swelling of the conjunctiva (the membrane that lines the eyelids and covers the white of the eye)

Dry eye

Watery eyes

Dryness of the conjunctiva (the membrane that lines the eyelids and covers the white of the eye) and cornea (the clear layer in front of the iris and pupil).

Swelling of the eyelids

Eye disorder with dryness, tearing, irritation, and/or pain

Cardiac Failure (Condition that affects the pumping power of your heart muscles)

Irregular heart rhythm

Indigestion

Constipation

Abdominal pain

Liver: increases in the chemicals in the blood made by the liver

Increased skin pigmentation

Itchy skin

Rash on the body where each mark resembles a bullseye

Hair loss  
Hives  
Kidney stop working  
Reduced functionality of kidney  
Fever  
Pain  
Excess fluid in body tissue, causing swelling  
Chest pain  
Inflammation and ulceration of the mucous membranes lining the digestive tract

*Uncommon (may affect up to 1 in 100 people)*

Reduction in the number of red, white blood cells and platelets  
Stroke  
Type of stroke when an artery to the brain is blocked  
Bleeding inside the skull  
Angina (Chest pain caused by reduced blood flow to the heart)  
Heart attack  
Narrowing or blockage of the coronary arteries  
Increased heart rhythm  
Deficient blood distribution to the limbs  
Blockage in one of the pulmonary arteries in your lungs  
Inflammation and scarring of the lining of the lungs with breathing problems  
Passage of bright red blood from the anus  
Bleeding in the gastrointestinal tract  
Ruptured bowel  
Inflammation of the lining of the oesophagus  
Inflammation of the lining of the large bowel, which may be accompanied by intestinal or rectal bleeding (seen only in combination with cisplatin)  
Inflammation, edema, erythema, and erosion of the mucosal surface of the esophagus caused by radiation therapy  
Inflammation of the lung caused by radiation therapy

*Rare (may affect up to 1 in 1,000 people)*

Destruction of red blood cells  
Anaphylactic shock (severe allergic reaction)  
Inflammatory condition of the liver  
Redness of the skin  
Skin rash that develops throughout a previously irradiated area

*Very rare (affect up to 1 of 10 000 people)*

Infections of skin and soft tissues  
Stevens-Johnson syndrome (a type of severe skin and mucous membranes reaction that may be life threatening)  
Toxic epidermal necrolysis (a type of severe skin reaction that may be life threatening)  
Autoimmune disorder that results in skin rashes and blistering on the legs, arms, and abdomen  
Inflammation of the skin characterized by the presence of bullae which are filled with fluid  
Skin fragility, blisters and erosions and skin scarring  
Redness, pain and swelling mainly of the lower limbs  
Inflammation of the skin and fat beneath the skin (pseudocellulitis)  
Inflammation of the skin (dermatitis)  
Skin to become inflamed, itchy, red, cracked, and rough  
Intensely itchy spots

*Not known (frequency cannot be estimated from the available data)*

Form of diabetes primarily due to pathology of the kidney  
Disorder of the kidneys involving the death of tubular epithelial cells that form the renal tubules

You might have any of these symptoms and/or conditions. You must tell your doctor as soon as possible when you start experiencing any of these side effects.

If you are concerned about any side effects, talk to 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 Yellow Card Scheme at: [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. By reporting side effects you can help provide more information on the safety of this medicine.

## **5. How to store Pemetrexed Pfizer**

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 and vial label after EXP. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Infusion solution: Chemical and physical in-use stability of infusion solution of pemetrexed has been demonstrated for 24 hours at 2 °C to 8 °C. From a microbiological point of view, the product should 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 °C to 8 °C.

Parenteral medicines must be inspected visually for particulate matter and discolouration prior to administration. If particulate matter is observed, do not administer.

This medicine is for single use only; any unused solution must be disposed of in accordance with local requirements.

Medicines should not be disposed of via wastewater or household waste. Ask your pharmacist how to dispose of medicines no longer required. These measures will help to protect the environment.

## **6. Contents of the pack and other information**

### **What Pemetrexed Pfizer contains**

The active substance is pemetrexed. One ml of concentrate contains pemetrexed disodium equivalent to 25 mg of pemetrexed. Further dilution by a healthcare provider is required prior to administration.

One vial of 4 ml concentrate contains pemetrexed disodium equivalent to 100 mg of pemetrexed.

One vial of 20 ml concentrate contains pemetrexed disodium equivalent to 500 mg of pemetrexed.

One vial of 40 ml concentrate contains pemetrexed disodium equivalent to 1,000 mg of pemetrexed.

The other ingredients are monothioglycerol, sodium hydroxide (for pH adjustment) and water for injections. Refer to section 2 “Pemetrexed Pfizer contains sodium”.

### **What Pemetrexed Pfizer looks like and contents of the pack**

Pemetrexed Pfizer concentrate for solution for infusion (sterile concentrate) is a clear, colourless to pale yellow or green yellow solution practically free from visible particulates in a glass vial.

Each pack contains one vial of 100 mg/4 ml, 500 mg/20 ml or 1,000 mg/40 ml pemetrexed (as pemetrexed disodium).

Not all pack sizes may be marketed.

**Marketing Authorisation Holder**

Pfizer Limited  
Ramsgate Road  
Sandwich  
Kent  
CT13 9NJ  
United Kingdom

**Manufacturer**

Pfizer UK Limited  
Horizon  
Honey Lane  
Hurley  
Maidenhead  
SL6 6RJ  
United Kingdom

Pfizer Service Company BV  
Hoge Wei 10  
1930 Zaventem  
Belgium

For any information about this medicine, please contact:  
Medical Information, Pfizer Ltd, Walton Oaks, Dorking Road, Tadworth, Surrey, KT20 7NS.  
Telephone 01304 616161.

**This leaflet was last revised in 10/2022.**

Ref: gxPR 3\_0

---

The following information is intended for healthcare professionals only:

**Instructions for use, handling and disposal**

1. Use aseptic technique during dilution of pemetrexed for intravenous infusion administration.
2. Calculate the dose and the number of Pemetrexed Pfizer vials needed. Each vial contains an excess of pemetrexed to facilitate delivery of label amount.
3. The appropriate volume of pemetrexed solution must be further diluted to 100 ml with sodium chloride 9 mg/ml (0.9%) solution for injection, without preservative, and administered as an intravenous infusion over 10 minutes.
4. Pemetrexed infusion solution prepared as directed above are compatible with polyvinyl chloride- and polyolefin-lined administration sets and infusion bags. Pemetrexed is incompatible with diluents containing calcium, including lactated Ringer's Injection and Ringer's Injection.

5. Parenteral medicinal products must be inspected visually for particulate matter and discolouration prior to administration. If particulate matter is observed, do not administer.

6. Pemetrexed solutions are for single use only. Any unused medicinal product or waste material must be disposed of in accordance with local requirements.

**Preparation and administration precautions:** As with other potentially toxic anti-cancer agents, care should be exercised in the handling and preparation of pemetrexed infusion solution. The use of gloves is recommended. If a pemetrexed solution contacts the skin, wash the skin immediately and thoroughly with soap and water. If pemetrexed solutions contact the mucous membranes, flush thoroughly with water. Pemetrexed is not a vesicant. There is not a specific antidote for extravasation of pemetrexed. There have been few reported cases of pemetrexed extravasation, which were not assessed as serious by the investigator. Extravasation should be managed by local standard practice as with other non-vesicants.