Package leaflet: Information for the user

Pemetrexed 25 mg/ml, concentrate for solution for infusion

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. 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 pemetrexed is and what it
- is used for 2. What you need to know before
- ou use pemetrexed 3. How to use permetrexed 4. Possible side effects

- 5. How to store pemetrexed6. Contents of the pack and other information

1. What pemetrexed is and what it is used for

Pemetrexed is a medicine used in the treatment of cancer. Pemetrexed 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 is also given in combination with cisplatin for the advanced stage of lung cancer. Pemetrexed 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 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

Do not use pemetrexed if: • you are allergic to

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

Warnings and precautions Talk to your doctor, pharmacist or nurse before receiving pemetrexed 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. Before each infusion you will have samples of your blood taken to evaluate if you have ufficient kidney and liver sufficient kidney and liver function and to check that you have enough blood cells to receive pemetrexed. 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,

Pregnancy, breast-feeding and fertility Pregnancy

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

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

Men are advised not to father a child during and up to 6 months following treatment with pemetrexed and should therefore use effective contraception during treatment with pemetrexed and for up to 6 months afterwards. If you would like to father a child during the treatment, or in the 6 months following receipt of treatment, seek advice from your doctor or pharmacist. You may want to seek counselling on sperm storage before starting your therapy.

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

3. How to use pemetrexed

The dose of pemetrexed 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, the pemetrexed solution with 0.9% sodium chloride or 5% dextrose solution for injection before it is given to you. You will always receive pemetrexed by infusion into one of your veins. The infusion will

last approximately 10 minutes. When using pemetrexed 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 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 treatment. This medicine is given to you to reduce the frequency and severity of skin reactions that you may experience during your anticancer 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. You must take at least 5 doses during the seven days before the first dose of pemetrexed. You must continue taking the folic acid for 21 days after the last dose of pemetrexed. You will also receive an injection of vitamin B_{12} (1,000 micrograms) in the week before administration of pemetrexed and then approximately every 9 weeks (corresponding to 3 courses of pemetrexed treatment) Vitamin B₁₂ and folic acid are given to you to reduce the possible toxic effects of the anticancer treatment.

your doctor will make sure that you are properly hydrated and receive appropriate treatment before and after receiving cisplatin to prevent vomiting

- 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.
- you have been recently vaccinated, please tell your doctor, as this can possibly cause bad effects with pemetrexed.
- you have heart disease or a history of heart disease, please tell your doctor.
- you have an accumulation of fluid around your lungs, as your doctor may decide to remove the fluid before giving you pemetrexed.

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

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 Fever or infection (common)

- or very common, respectively): if you have a temperature of 38 °C or greater, sweating or other signs of infection (since you might have less white blood cells than normal which is common or very common, respectively). 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 a **skin rash** (very common) / burning or prickling sensations (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).

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

Instructions for use, handling and disposal.

1. Use aseptic techniques during the dilution of pemetrexed for intravenous infusion administration

2. Calculate the dose and the number of pemetrexed vials needed. Each vial contains an excess of pemetrexed to facilitate delivery of the label amount. Each vial contains a solution containing 25 mg/ml pemetrexed. 3. The appr

3. The appropriate volume of the solution must be further diluted to 100 ml with 0.9% sodium chloride or 5% dextrose solution for injection, without preservative, and administered as an intravenous infusion over 10 minutes.

4. Pemetrexed infusion solutions 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. Pemetrexed contains L-Arginine as an excipient. L-Arginine is incompatible with cisplatin resulting in degradation of cisplatin. This medicinal product must not be mixed with other medicinal products. Intravenous lines should be flushed after administration of pemetrexed.

- If you experience **tiredness**, feeling **faint**, becoming easily **breathless** or if you look **pale** (since you might have less becomelebin then parmel 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 loss platedist than parm have less platelets than normal which is common).
- If you experience sudden breathlessness, intense chest pain or a 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 white blood cells
- Loss of appetite
- Vomiting
- Diarrhoea
- Nausea
- Flaking skin
- Abnormal blood tests showing reduced functionality of kidnevs
- Fatigue (tiredness).
- Common (may affect up to 1 in 10 people):
- Blood infections
- Low platelet count
 Loss of body fluids
- Taste changes Damage to the motor nerves which may cause muscle weakness and atrophy (wasting) primarily in the arms and legs
- Damage to the sensory nerves that may cause loss of sensation, burning pain and an unsteady gait
- Dizziness
- Inflammation or swelling of the conjunctiva (the membrane that lines the eyelids and covers the white of the eye)
- Dry eyes
- 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 disorders with dryness
- tearing, irritation, and/or pain Cardiac failure (a condition that
- affects the pumping power of our heart muscles) Irregular heart rhythm

- IndigestionConstipationAbdominal pain
- Liver: Increases in the chemicals in the blood made by the liver
- Increased skin pigmentation
- Itchy skin Rashes on the body where each mark resembles a
- bullseye
- Hair loss Hives
- Kidneys stop working Reduced functionality of the
- kidneys Pain
- Excess fluid in body tissue,
- causing swelling 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

- 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 becoming 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 <u>www.mhra.gov.uk/</u> <u>yellowcard</u> 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

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

This medicine does not require any special storage conditions. Do not freeze.

Diluted solutions: The product should be used immediately.

Chemical and physical in-use stability of infusion solution of pemetrexed diluted with 5% dextrose in a polyvinyl chloride or polyolefin infusion bag and diluted with 0.9% sodium chloride (Saline) solution for infusion in a polyvinyl chloride bag was demonstrated for 24 hours in the dark at refrigerated temperature (2-8 °C).

Chemical and physical in-use stability of infusion solution of pemetrexed diluted with 0.9% sodium chloride (Saline) solution for infusion in a polyolefin infusion bag was demonstrated for 3 days in the dark at refrigerated temperature (2-8 °C).

Chemo spike syringes – in-use shelf life and storage conditions: Chemical and physical in-use stability of Pemetrexed 25 mg/ mL concentrate for solution for infusion inserted with a chemo Infusion inserted with a crient spike syringe in the vial was demonstrated for 7 days in the dark at refrigerated temperature (2-8 °C). This medicine is for single use

only; any unused solution must be disposed of in accordance with local requirements

6. Contents of the pack and other information

- What pemetrexed contains
- 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, oedema, erythema, and erosion of the mucosal surface of the oesophagus caused by radiation therapy
 Inflammation of the lungs
- 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 (may affect up to 1 of 10000 people):

- Infections of skin and soft tissues
- Toxic epidermal necrolysis (a type of severe skin reaction that may be life threatening)
- Autoimmune disorders that result in skin rashes and blistering on the legs, arms, and abdomen

The active substance is pemetrexed. One vial of 4 ml concentrate contains 100 mg pemetrexed (as pemetrexed diarginine). One vial of 20 ml concentrate contains 500 mg pemetrexed (as pemetrexed diarginine). One vial of 40 ml concentrate contains 1,000 mg pemetrexed (as pemetrexed diarginine). The solution contains 25 mg/ml of pemetrexed. Further dilution by a healthcare provider is required prior to administration. The other ingredients are L-Arginine, L-Cysteine, propylene glycol, citric acid and water for injections.

What pemetrexed looks like and contents of the pack Pemetrexed is a clear, colourless

to slightly yellow to brown, brown-yellow or green-yellow solution. It is provided in glass vials. Each pack contains: 1 x 4 ml vial (100 mg/4 ml) 1 x 20 ml vial (500 mg/ 20 ml) 1 x 40 ml vial (1,000 mg/ 40 ml) The vials are closed with a rubber stopper (bromobutyl), a cap and a flip-top.

Not all pack sizes may be marketed.

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5. Parenteral medicinal products should 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 product

or waste material should be disposed of in accordance with local requirements for cytotoxic agents.

Preparation and administration precautions: As with other potentially toxic anticancer agents, care should be exercised in the handling and preparation of pemetrexed infusion solutions. 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 a 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.