

## **Package Leaflet: information for the patient**

### **Mymicyas 50 mg Powder for Concentrate for Solution for Infusion Mymicyas 70 mg Powder for Concentrate for Solution for Infusion caspofungin**

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

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

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

## **1. What Mymicyas is and what it is used for**

### **What Mymicyas is**

Mymicyas contains a medicine called caspofungin. This belongs to a group of medicines called antifungals.

### **What Mymicyas is used for**

Mymicyas is used to treat the following infections in children, adolescents and adults:

- serious fungal infections in your tissues or organs (called ‘invasive candidiasis’). This infection is caused by fungal (yeast) cells called *Candida*.  
People who might get this type of infection include those who have just had an operation or those whose immune systems are weak. Fever and chills that do not respond to an antibiotic are the most common signs of this type of infection.
- fungal infections in your nose, nasal sinuses or lungs (called ‘invasive aspergillosis’) if other anti-fungal treatments have not worked or have caused side effects. This infection is caused by a mould called *Aspergillus*.  
People who might get this type of infection include those having chemotherapy, those who have had a transplant and those whose immune systems are weak.
- suspected fungal infections if you have a fever and a low white cell count that have not improved on treatment with an antibiotic. People who are at risk of getting a fungal infection include those who have just had an operation or those whose immune systems are weak.

### **How Mymicyas works**

Mymicyas makes fungal cells fragile and stops the fungus from growing properly. This stops the infection from spreading and gives the body’s natural defences a chance to completely get rid of the infection.

## **2. What you need to know before you are given Mymicyas**

### **Do not use Mymicyas**

-if you are allergic to caspofungin or any of the other ingredients of this medicine (listed in section 6).  
If you are not sure, talk to your doctor, nurse or pharmacist before you are given your medicine.

**Warnings and precautions**

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

- you are allergic to any other medicines
- you have ever had liver problems - you might need a different dose of this medicine
- you are already taking cyclosporin (used to help prevent organ transplant rejection or to suppress your immune system) - as your doctor may need to run extra blood tests during your treatment.
- if you have ever had any other medical problem.

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

Mymicyas may also cause Serious Cutaneous Adverse Reactions such as Stevens-Johnson Syndrome (SJS) and toxic epidermal necrolysis (TEN).

During treatment

If you experience an allergic reaction, including rash, facial swelling, itching, fever, breathing difficulties, speak to your doctor as your doctor may decide to discontinue Mymicyas.

If you develop abnormal liver function shown through laboratory tests, your doctor will monitor you for any signs of liver problems.

**Other medicines and Mymicyas**

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

Tell your doctor, nurse or pharmacist if you are taking any of the following medicines:

- cyclosporin or tacrolimus (used to help prevent organ transplant rejection or to suppress your immune system) as your doctor may need to run extra blood tests during your treatment
- some HIV medicines such as efavirenz or nevirapine
- phenytoin or carbamazepine (used for the treatment of seizures)
- dexamethasone (a steroid)
- rifampicin (an antibiotic).

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

**Pregnancy and breast-feeding**

Ask your doctor for advice before taking any medicine, if you are pregnant or breast-feeding or think you are pregnant.

- Mymicyas has not been studied in pregnant women. It should be used in pregnancy only if the potential benefit justifies the potential risk to the unborn baby.
- Women given Mymicyas should not breast-feed.

**Driving and using machines**

There is no information to suggest that Mymicyas affects your ability to drive or operate machinery.

### 3. How to use Mymicyas

Mymicyas will always be prepared and given to you by a healthcare professional.

You will be given Mymicyas:

- once each day
- by slow injection into a vein (intravenous infusion)
- over about 1 hour.

Your doctor will determine the duration of your treatment and how much Mymicyas you will be given each day. Your doctor will monitor how well the medicine works for you. If you weigh more than 80 kg, you may need a different dose.

#### Children and adolescents

The dose for children and adolescents may differ from the adult dose.

#### If you have been given more Mymicyas than you should

Your doctor will decide how much Mymicyas you need and for how long each day. If you are worried that you may have been given too much Mymicyas, tell your doctor or nurse straight away.

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

### 4. Possible side effects

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

**Tell your doctor or nurse straight away if you notice any of the following side effects – you may need urgent medical treatment:**

- rash, itching, feeling warm, swelling of your face, lips or throat or difficulty breathing – you may be having a histamine reaction to the medicine
- difficulty breathing with wheezing or a rash that gets worse - you may be having an allergic reaction to the medicine
- cough, serious breathing difficulties - if you are an adult and have invasive aspergillosis you may be experiencing a serious respiratory problem that could result in respiratory failure
- rash, skin peeling, mucous membrane sores, hives, large areas of peeling skin.

As with any prescription medicine, some side effects may be serious. Ask your doctor for more information.

Other side effects in adults include

**Common:** may affect up to 1 in 10 people:

- Decreased haemoglobin (decreased oxygen carrying substance in the blood), decreased white blood cells
- Decreased blood albumin (a type of protein) in your blood, decreased potassium or low potassium levels in the blood
- Headache
- Inflammation of the vein
- Shortness of breath
- Diarrhoea, nausea or vomiting
- Changes in some laboratory blood tests (including increased values of some liver tests)
- Itching, rash, skin redness or sweating more than usual
- Joint pain
- Chills, fever
- Itching at the injection site.

**Uncommon:** may affect up to 1 in 100 people:

- Changes in some laboratory blood tests (including disease of blood clotting, platelets, red blood cells and white blood cells)
- Loss of appetite, increase in amount of body fluid, imbalance of salt in the body, high sugar level in the blood, low calcium level in the blood, increase calcium level in the blood, low magnesium level in the blood, increase in acid level in the blood
- Disorientation, feeling nervous, being unable to sleep
- Feeling dizzy, decreased feeling or sensitivity (especially in the skin), shaking, feeling sleepy, change in the way things taste, tingling or numbness
- Blurred vision, increase in tears, swollen eyelid, yellowing of the whites of the eyes
- Sensation of fast or irregular heart beats, rapid heart beat, irregular heart beat, abnormal heart rhythm, heart failure
- Flushing, hot flush, high blood pressure, low blood pressure, redness along a vein which is extremely tender when touched
- Tightening of the bands of muscle around the airways resulting in wheezing or coughing, fast breathing rate, shortness of breath that wakes you up, shortage of oxygen in the blood, abnormal breath sounds, crackling sounds in the lungs, wheezing, nasal congestion, cough, throat pain
- Belly pain, upper belly pain, bloating, constipation, difficulty swallowing, dry mouth, indigestion, passing gas, stomach discomfort, swelling due to build-up of fluid around the belly
- Decreased flow of bile, enlarged liver, yellowing of the skin and/or whites of the eyes, liver injury caused by a drug or chemical, liver disorders
- Abnormal skin tissue, generalised itching, hives, rash of varying appearance, abnormal skin, red often itchy spots on your arms and legs and sometimes on the face and the rest of the body
- Back pain, pain in an arm or leg, bone pain, muscle pain, muscle weakness
- Loss of kidney function, sudden loss of kidney function
- Catheter site pain, injection site complaints (redness, hard lump, pain, swelling, irritation, rash, hives, leaking of fluid from the catheter into the tissue), inflammation of vein at injection site
- Increased blood pressure and alterations in some laboratory blood tests (including kidney electrolyte and clotting tests), increased levels of the medicines you are taking that weaken the immune system
- Chest discomfort, chest pain, feeling of body temperature change, generally feeling unwell, general pain, swelling of the face, swelling of the ankles, hands or feet, swelling, tenderness, feeling tired.

### **Side effects in children and adolescents**

**Very common:** may affect more than 1 in 10 people:

- Fever

**Common:** may affect up to 1 in 10 people:

- Headache
- Fast heart beat
- Flushing, low blood pressure
- Changes in some laboratory blood tests (increased values of some liver tests)
- Itching, rash
- Catheter site pain
- Chills
- Changes in some laboratory blood tests.

### **Reporting of side effects**

If you get any side effects, talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via HPRA Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2; Tel: +353 1 6764971; Fax: +353 1 6762517. Website: [www.hpra.ie](http://www.hpra.ie); E-mail: [medsafety@hpra.ie](mailto:medsafety@hpra.ie). By reporting side effects you can help provide more information on the safety of this medicine.

### **5. How to store Mymicyas**

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 the vial (the first two numbers are the month; the next four numbers are the year). The expiry date refers to the last day of that month.

Store in a refrigerator (2°C - 8°C).

Chemical and physical in-use stability of the reconstituted and of the diluted solution has been demonstrated for 24 hours at 25°C and at 5°C. From a microbiological point of view, unless the method of opening, reconstitution and dilution precludes the risk of microbial contamination, the product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user. Only a trained healthcare professional who has read the complete directions should prepare the medicine (please see below “Instructions of how to reconstitute and dilute Mymicyas”).

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 to protect the environment.

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

#### **What Mymicyas contains**

The active substance is caspofungin. Each vial of Mymicyas contains 50 mg of caspofungin. After reconstitution in 10.5 ml of water for injection, 1 mL of solution contains 5.2 mg of caspofungin.

The active substance is caspofungin. Each vial of Mymicyas contains 70 mg of caspofungin. After reconstitution in 10.5 ml of water for injection, 1 mL of solution contains 7.2 mg of caspofungin

The other ingredients are sucrose, mannitol, glacial acetic acid, sodium hydroxide.

#### **What Mymicyas looks like and contents of the pack**

Mymicyas is a sterile, white to off-white compact powder.

Each pack contains one vial of powder.

### **Marketing Authorisation Holder and Manufacturer**

#### **Marketing Authorisation Holder**

Generics [UK] Limited  
Station Close,  
Potters Bar,  
Hertfordshire  
EN6 1TL  
United-Kingdom

**Manufacturer(s)**

Mylan S.A.S  
117, Allée des Parcs  
69800 Saint Priest  
France

Wessling Hungary Kft.  
Fóti út 56  
1047 Budapest  
Hungary

**This medicinal product is authorised in the Member States of the EEA under the following names:**

Austria	Mymicyas 50 mg & 70 mg Pulver für ein Konzentrat zur Herstellung einer Infusionslösung
Belgium	Mymicyas 50 mg & 70 mg poeder voor concentraat voor oplossing voor infusie/ Poudre pour solution à diluer pour perfusion / Pulver für ein Konzentrat zur Herstellung einer Infusionslösung
Czech Republic	Mymicyas
Denmark	Mymicyas 50 mg & 70 mg Pulver für ein Konzentrat zur Herstellung einer Infusionslösung
Denmark	Mymicyas
Finland	Mymicyas 50 mg & 70 mg kuiva-aine välikonsentraatiksi infuusionestettä varten, liuos
France	Mymicyas 50 mg & 70 mg, poudre pour solution à diluer pour perfusion
Germany	Mymicyas 50 mg & 70 mg Pulver für ein Konzentrat zur Herstellung einer Infusionslösung
Ireland	Mymicyas 50 mg & 70 mg Powder for Concentrate for Solution for Infusion
Italy	Mymicyas
Luxemburg	Mymicyas 50 mg & 70 mg poudre pour solution à diluer pour perfusion
Netherlands	Mymicyas 50 mg & 70 mg, poeder voor concentraat voor oplossing voor infusie
Norway	Mymicyas 50 mg & 70 mg pulver til konsentrat til infusjonsvæske, oppløsning
Poland	Mymicyas
Portugal	Mymicyas
Slovakia	Mymicyas 50 mg & 70 mg
Sweden	Mymicyas 50 mg & 70 mg pulver till konzentrat till infusionsvätska, lösning
United Kingdom	Mymicyas 50 mg & 70 mg powder for concentrate for solution for infusion

**This leaflet was last revised in 06/2017.**

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**The following information is intended for healthcare professionals only:**

Instructions of how to reconstitute and dilute Mymicyas:

**Reconstitution of Mymicyas**

DO NOT USE ANY DILUENTS CONTAINING GLUCOSE as Mymicyas is not stable in diluents containing glucose. DO NOT MIX OR CO-INFUSE Mymicyas WITH ANY OTHER MEDICINES, as there are no data available on the compatibility of Mymicyas with other intravenous substances, additives, or medicinal products. Visually inspect the infusion solution for particulate matter or discolouration.

**INSTRUCTIONS FOR USE IN ADULT PATIENTS****Step 1 Reconstitution of conventional vials**

To reconstitute the powder bring the vial to room temperature and aseptically add 10.5 ml of water for injection. The concentrations of the reconstituted vials will be 5.2 mg/ml.

To reconstitute the powder bring the vial to room temperature and aseptically add 10.5 ml of water for injection. The concentrations of the reconstituted vials will be: 7.2 mg/ml.

The white to off-white compact lyophilised powder will dissolve completely. Mix gently until a clear solution is obtained. Reconstituted solutions should be visually inspected for particulate matter or discolouration. This reconstituted solution may be stored for up to 24 hours at or below 25°C.

## Step 2 Addition of reconstituted Mymicyas to patient infusion solution

Diluents for the final solution for infusion are: sodium chloride solution for injection, or lactated Ringer's solution. The solution for infusion is prepared by aseptically adding the appropriate amount of reconstituted concentrate (as shown in the table below) to a 250 ml infusion bag or bottle. Reduced volume infusions in 100 ml may be used, when medically necessary, for 50 mg or 35 mg daily doses. Do not use if the solution is cloudy or has precipitated.

### PREPARATION OF THE SOLUTION FOR INFUSION IN ADULTS

DOSE*	Volume of reconstituted Mymicyas for transfer to intravenous bag or bottle	Standard preparation (reconstituted Mymicyas added to 250 ml) final concentration	Reduced volume infusion (reconstituted Mymicyas added to 100 ml) final concentration
50 mg	10 ml	0.20 mg/ml	-
70 mg	10 ml	0.28 mg/ml	Not Recommended
50 mg at reduced volume	10 ml	-	0.47 mg/ml
70 mg (from two 50 mg vials)**	14 ml	0.28 mg/ml	Not Recommended
35 mg for moderate hepatic impairment (from one 50 mg vial)	7 ml	0.14 mg/ml	-
35 mg for moderate hepatic impairment (from one 70 mg vial)	5 ml	0.14 mg/ml	0.34 mg/ml
35 mg for moderate hepatic impairment (from one 50 mg vial) at reduced volume	7 ml	-	0.34 mg/ml

\* 10.5 ml should be used for reconstitution of all vials.

\*\* If 70 mg vial is not available, the 70 mg dose can be prepared from two 50-mg vials.

### INSTRUCTIONS FOR USE IN PAEDIATRIC PATIENTS

#### Calculation of Body Surface Area (BSA) for paediatric dosing

Before preparation of infusion, calculate the body surface area (BSA) of the patient using the following formula: (Mosteller<sup>2</sup> Formula)

$$BSA (m^2) = \sqrt{((Height (cm) \times Weight (kg))/3600)}$$

<sup>2</sup> Mosteller RD: Simplified Calculation of Body Surface Area. N Engl J Med 1987 Oct 22;317(17): 1098 (letter)

**Preparation of the 70 mg/m<sup>2</sup> infusion for paediatric patients > 3 months of age (using a 50-mg vial)**

1. Determine the actual loading dose to be used in the paediatric patient by using the patient's BSA (as calculated above) and the following equation:

$$\text{BSA (m}^2\text{)} \times 70 \text{ mg/m}^2 = \text{Loading Dose}$$

The maximum loading dose on Day 1 should not exceed 70 mg regardless of the patient's calculated dose.

2. Equilibrate the refrigerated vial of Mymicyas to room temperature.

3. Aseptically add 10.5 ml of water for injections.<sup>a</sup> This reconstituted solution may be stored for up to 24 hours at or below 25°C.<sup>b</sup> This will give a final caspofungin concentration in the vial of 5.2 mg/ml.

4. Remove the volume of medicine equal to the calculated loading dose (Step 1) from the vial. Aseptically transfer this volume (ml)<sup>c</sup> of reconstituted Mymicyas to an IV bag (or bottle) containing 250 ml of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection. Alternatively, the volume (ml)<sup>c</sup> of reconstituted Mymicyas can be added to a reduced volume of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection, not to exceed a final concentration of 0.5 mg/ml. This infusion solution must be used within 24 hours if stored at or below 25°C or at 2 to 8°C.

**Preparation of the 50 mg/m<sup>2</sup> infusion for paediatric patients > 3 months of age (using a 50-mg vial)**

1. Determine the actual daily maintenance dose to be used in the paediatric patient by using the patient's BSA (as calculated above) and the following equation:

$$\text{BSA (m}^2\text{)} \times 50 \text{ mg/m}^2 = \text{Daily Maintenance Dose}$$

The daily maintenance dose should not exceed 70 mg regardless of the patient's calculated dose.

2. Equilibrate the refrigerated vial of Mymicyas to room temperature.

3. Aseptically add 10.5 ml of water for injections.<sup>a</sup> This reconstituted solution may be stored for up to 24 hours at or below 25°C.<sup>b</sup> This will give a final caspofungin concentration in the vial of 5.2 mg/ml.

4. Remove the volume of medicine equal to the calculated daily maintenance dose (Step 1) from the vial. Aseptically transfer this volume (ml)<sup>c</sup> of reconstituted Mymicyas to an IV bag (or bottle) containing 250 ml of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection. Alternatively, the volume (ml)<sup>c</sup> of reconstituted Mymicyas can be added to a reduced volume of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection, not to exceed a final concentration of 0.5 mg/ml. This infusion solution must be used within 24 hours if stored at or below 25°C or at 2 to 8°C.

**Preparation of the 70 mg/m<sup>2</sup> infusion for paediatric patients > 3 months of age (using a 70-mg vial)**

1. Determine the actual loading dose to be used in the paediatric patient by using the patient's BSA (as calculated above) and the following equation:

$$\text{BSA (m}^2\text{)} \times 70 \text{ mg/m}^2 = \text{Loading Dose}$$

The maximum loading dose on Day 1 should not exceed 70 mg regardless of the patient's calculated dose.

2. Equilibrate the refrigerated vial of Mymicyas to room temperature.

3. Aseptically add 10.5 ml of water for injections.<sup>a</sup> This reconstituted solution may be stored for up to 24 hours at or below 25°C.<sup>b</sup> This will give a final caspofungin concentration in the vial of 7.2 mg/ml.



4. Remove the volume of medicine equal to the calculated loading dose (Step 1) from the vial. Aseptically transfer this volume (ml)<sup>c</sup> of reconstituted Mymicyas to an IV bag (or bottle) containing 250 ml of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection. Alternatively, the volume (ml)<sup>c</sup> of reconstituted Mymicyas can be added to a reduced volume of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection, not to exceed a final concentration of 0.5 mg/ml. This infusion solution must be used within 24 hours if stored at or below 25°C or at 2 to 8°C.

**Preparation of the 50 mg/m<sup>2</sup> infusion for paediatric patients > 3 months of age (using a 70-mg vial)**

1. Determine the actual daily maintenance dose to be used in the paediatric patient by using the patient's BSA (as calculated above) and the following equation:

$$\text{BSA (m}^2\text{)} \times 50 \text{ mg/m}^2 = \text{Daily Maintenance Dose}$$

The daily maintenance dose should not exceed 70 mg regardless of the patient's calculated dose.

2. Equilibrate the refrigerated vial of Mymicyas to room temperature.

3. Aseptically add 10.5 ml of water for injections.<sup>a</sup> This reconstituted solution may be stored for up to 24 hours at or below 25°C.<sup>b</sup> This will give a final caspofungin concentration in the vial of 7.2 mg/ml.

4. Remove the volume of medicine equal to the calculated daily maintenance dose (Step 1) from the vial. Aseptically transfer this volume (ml)<sup>c</sup> of reconstituted Mymicyas to an IV bag (or bottle) containing 250 ml of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection. Alternatively, the volume (ml)<sup>c</sup> of reconstituted Mymicyas can be added to a reduced volume of 0.9 %, 0.45 % or 0.225 % Sodium Chloride Injection or Lactated Ringers Injection, not to exceed a final concentration of 0.5 mg/ml. This infusion solution must be used within 24 hours if stored at or below 25°C or at 2 to 8°C.

***Preparation notes:***

<sup>a</sup>. The white to off-white cake will dissolve completely. Mix gently until a clear solution is obtained.

<sup>b</sup>. Visually inspect the reconstituted solution for particulate matter or discoloration during reconstitution and prior to infusion. Do not use if the solution is cloudy or has precipitated.

<sup>c</sup>. Mymicyas is formulated to provide the full labeled vial dose (50 mg or 70 mg) when 10 ml is withdrawn from the vial.