

# Summary of Product Characteristics

## 1 NAME OF THE MEDICINAL PRODUCT

Fucidin 250mg/5ml Oral Suspension

## 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Fusidic acid.

Each 5 ml of suspension contains 250 mg of anhydrous fusidic acid (as hemihydrate).

### Excipients with known effect

Glucose liquid 250 mg/1 ml suspension

Sorbitol (E420) 100 mg/1 ml suspension

Sodium 1.6 mg/1 ml suspension

Orange dry flavour (containing sucrose) 400 mcg/1 ml suspension.

For the full list of excipients, see section 6.1.

## 3 PHARMACEUTICAL FORM

Oral suspension

Cream coloured suspension with odour of banana.

## 4 CLINICAL PARTICULARS

### 4.1 Therapeutic Indications

In the treatment of systemic infections due to micro-organisms sensitive to this anti-infective, such as Staphylococci.

### 4.2 Posology and method of administration

#### Posology

Adult dose: The usual total daily dose is 1500-2000 mg (30 – 40 ml) each day in 3 equally divided doses.

#### Paediatric population

Children: The usual daily dose is 20-50 mg/kg (0.4 ml/kg – 1 ml/kg) each day in 3 equally divided doses.

#### Method of administration

For oral administration. The suspension should be shaken well before use.

### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients.

Concomitant treatment with statins (HMG-CoA reductase inhibitors). (See section 4.4, 4.5).

### 4.4 Special warnings and precautions for use

This medicinal product contains 1.6 mg sodium per ml suspension. To be taken into consideration by patients on a controlled sodium diet.

Statins (HMG-CoA reductase inhibitors) and systemic Fucidin must not be co-administered, (see section 4.3). There have been reports of rhabdomyolysis (including fatalities) in patients receiving this combination.

Statin treatment should be discontinued throughout the duration of treatment with systemic Fucidin. The patient should be advised to seek medical advice immediately if they experience any symptoms of muscle weakness, pain or tenderness. Statin therapy may be re-introduced 7 days after the last dose of systemic Fucidin.

In exceptional circumstances, where prolonged systemic Fucidin is needed, e.g. for the treatment of severe infections, the need for co-administration of HMG-CoA reductase inhibitors and systemic Fucidin should only be considered on a case by case basis and under close medical supervision.

In a few cases, serious cutaneous reactions putting life at risk such as Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) syndrome, toxic epidermal necrolysis (Lyell's syndrome) and Stevens-Johnson syndrome have been reported with systemic Fucidin.

Patients should be advised to monitor cutaneous reactions as well as signs and symptoms suggestive of these reactions which usually appear in the first weeks of therapy. If such reactions are suspected to be due to systemic Fucidin, treatment with systemic Fucidin should be stopped and it is recommended not to reintroduce the therapy.

Fusidic acid is metabolised in the liver and excreted in the bile. Elevated liver enzymes and jaundice have occurred during systemic Fucidin therapy but are usually reversible on discontinuation of the drug.

Systemic Fucidin should be given with caution and liver function should be monitored if used in patients with hepatic dysfunction. Caution is required in patients with biliary disease and biliary tract obstruction. Caution is required in patients treated with HIV-protease inhibitors (see section 4.5). Fusidic acid competitively inhibits binding of bilirubin to albumin. Caution is necessary if systemic Fucidin is administered to patients with impaired transport and metabolism of bilirubin. Particular care is advised in neonates due to the theoretical risk of kernicterus.

Bacterial resistance has been reported to occur with the use of fusidic acid. As with all antibiotics, extended or recurrent use may increase the risk of developing antibiotic resistance.

Patients with rare hereditary problems of fructose intolerance should not take this medicine due to its content of sorbitol (E420).

Patients with rare glucose-galactose malabsorption should not take this medicine due to its content of glucose.

This medicinal product contains 1.6 mg sodium per ml suspension. To be taken into consideration by patients on a controlled sodium diet.

## **4.5 Interaction with other medicinal products and other forms of interaction**

### Statins (HMG-CoA reductase inhibitors)

Concomitant treatment with statins (HMG-CoA reductase inhibitors) is contraindicated.

Co-administration of systemic Fucidin and statins may cause possibly fatal rhabdomyolysis. Treatment with statins should therefore be discontinued throughout the duration of the treatment with systemic Fucidin. Statin therapy may be reintroduced 7 days after the last dose of systemic Fucidin (See section 4.3 and 4.4.)

### Oral anticoagulants

Systemic Fucidin administered concomitantly with oral anticoagulants such as coumarin derivatives or anticoagulants with similar actions may alter the anticoagulant effect. Adjustment of the oral anticoagulant dose may be necessary in order to maintain the desired level of anticoagulation.

### HIV protease inhibitors

Co-administration of systemic Fucidin and HIV protease inhibitors such as ritonavir and saquinavir may cause increased plasma concentrations of both agents which may result in hepatotoxicity.

Concomitant use is not recommended. (See section 4.4).

## 4.6 Fertility, pregnancy and lactation

### Pregnancy

There are no or limited data (less than 300 pregnancy outcomes) from the use of fusidic acid in pregnant women. Animal studies do not indicate direct or indirect harmful effect with respect to reproductive toxicity. As a precautionary measure, it is preferable to avoid the use of systemic Fucidin during pregnancy.

### Breast-feeding

Physico-chemical data suggest excretion of fusidic acid in human milk. A risk to the suckling child cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue/abstain from systemic Fucidin therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

### Fertility

There are no clinical studies with systemic Fucidin regarding fertility. Pre-clinical studies did not show any effect of sodium fusidate on the fertility in rats.

## 4.7 Effects on ability to drive and use machines

Fucidin has no or negligible influence on the ability to drive or to use machines.

## 4.8 Undesirable effects

The estimation of the frequency of undesirable effects is based on a pooled analysis of data from clinical trials and from spontaneous reporting.

The most frequently reported undesirable effects of Fucidin administered orally are gastrointestinal disorders like abdominal discomfort and pain, diarrhoea, dyspepsia, nausea and vomiting. Anaphylactic shock has been reported.

Undesirable effects are listed by MedDRA SOC and the individual undesirable effects are listed starting with the most frequently reported. Within each frequency group, adverse reactions are presented in the order of decreasing seriousness.

Very common ( $\geq 1/10$ )

Common ( $\geq 1/100$  to  $< 1/10$ )

Uncommon ( $\geq 1/1,000$  to  $< 1/100$ )

Rare ( $\geq 1/10,000$  to  $< 1/1,000$ )

Very rare ( $< 1/10,000$ )

Not known (cannot be estimated from available data)

<b>Blood and lymphatic system disorders</b>	
Uncommon	Pancytopenia Leukopenia <sup>a)</sup> Thrombocytopenia Anaemia
<b>Immune system disorders</b>	
Uncommon	Anaphylactic shock/anaphylactic reaction
Rare	Hypersensitivity
<b>Nervous system disorders</b>	
Uncommon	Headache Somnolence
<b>Gastrointestinal disorders</b>	
Common	Vomiting

	Diarrhoea Abdominal pain Dyspepsia Nausea Abdominal discomfort
<b>Hepatobiliary disorders</b>	
Uncommon	Hepatic failure Cholestasis Hepatitis <sup>b)</sup> Jaundice <sup>c)</sup> Hyperbilirubinaemia Liver function test abnormal <sup>d)</sup>
Rare	Hepatic function abnormal
<b>Skin and subcutaneous tissue disorders</b>	
Uncommon	Acute generalised exanthematous pustulosis Urticaria Pruritus Rash <sup>e)</sup> Erythema
Rare	Angioedema
Not known	Toxic epidermal necrolysis (Lyell's syndrome) <sup>f)</sup> Stevens-Johnson syndrome <sup>f)</sup> Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) syndrome <sup>f)</sup>
<b>Musculoskeletal and connective tissue disorders</b>	
Uncommon	Rhabdomyolysis <sup>g)</sup>
<b>Renal and urinary disorders</b>	
Uncommon	Renal failure <sup>h)</sup>
<b>General disorders and administration site conditions</b>	
Common	Lethargy/Fatigue/Asthenia

a) Haematological disorders affecting the white cell line (neutropenia, granulocytopenia and agranulocytosis) have been reported

b) Hepatitis also includes hepatitis cholestatic/cytolytic hepatitis

c) Jaundice also includes jaundice cholestatic

d) Including alanine aminotransferase increased, aspartate aminotransferase increased, blood alkaline phosphatase increased, blood bilirubin increased and gamma-glutamyltransferase increased

e) Rash includes various types of rash reactions such as drug eruption, erythematous and maculo-papular rash

f) These adverse reactions were identified through post-marketing surveillance. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency (see section 4.4).

g) Rhabdomyolysis may be fatal

h) Renal failure also includes renal failure acute

#### Paediatric population

Frequency, type and severity of adverse reactions in children are expected to be the same as in adults, based on limited data.

### **Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via HPRAs 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)

## **4.9 Overdose**

Acute symptoms of overdose include gastrointestinal disturbances. Management should be directed towards alleviation of symptoms. Dialysis will not increase the clearance of fusidic acid.

An overdose of 4 g/day for a duration of 10 days in an adult has been reported without any adverse events.

An overdose of 1,250 mg/day for a duration of 7 days in a child (3 years old) has been reported without any adverse events.

## **5 PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

**Pharmacotherapeutic group:** Steroid antibacterials, . ATC code: J01XC01

Fucidin exerts powerful activity against a number of gram-positive organisms. Staphylococci, including the strains resistant to penicillin and other antibiotics, are particularly susceptible to Fucidin. Concentrations of 0.03-0.12 mcg/ml inhibit nearly all strains of *Staphylococcus aureus*.

### **5.2 Pharmacokinetic properties**

Fucidin readily penetrates the central nervous system when the meninges are inflamed and is widely distributed in the body. Bactericidal levels have been assayed in bone and necrotic tissue. Blood levels are cumulative, reaching concentrations of 50-100 mcg/ml after oral administration of 1.5 g daily for 3 to 4 days. Fucidin is excreted mainly in the bile, little or none being excreted in the urine.

### **5.3 Preclinical safety data**

There are no preclinical data of relevance to the prescriber which are additional to that already included in other areas of the SPC.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Acesulfame potassium  
Banana flavour  
Citric acid monohydrate  
Disodium phosphate dihydrate (E339)  
Hyetellose  
Liquid glucose  
Methylcellulose  
Orange dry flavour (contains sucrose)  
Sodium benzoate (E211)  
Sorbitol (E420)  
Purified Water

## **6.2 Incompatibilities**

This medicinal product must not be mixed with other medicinal products.

## **6.3 Shelf life**

Unopened: 3 years.

After first opening: 1 month

## **6.4 Special precautions for storage**

This medicinal product does not require any special storage conditions.

For storage conditions after first opening of the medicinal product, see section 6.3.

## **6.5 Nature and contents of container**

Amber glass bottle with a white plastic screw cap supplied with measuring cup.

Each bottle contains 50 ml of suspension.

## **6.6 Special precautions for disposal and other handling**

Shake well before use.

No special requirements for disposal.

Any unused product or waste material should be disposed of in accordance with local requirements.

## **7 MARKETING AUTHORISATION HOLDER**

LEO Laboratories Limited

Cashel Road

Dublin 12

## **8 MARKETING AUTHORISATION NUMBER**

PA0046/004/010

## **9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

Date of first authorisation: 01 April 1977

Date of latest renewal: 13 March 2010

## **10 DATE OF REVISION OF THE TEXT**

June 2017