

# Summary of Product Characteristics

## 1 NAME OF THE MEDICINAL PRODUCT

Monotrim 100 mg Tablets

## 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each tablet contains 100 mg trimethoprim.

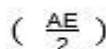
Excipient(s) with known effect:

Each tablet contains 24 mg lactose monohydrate.

For a full list of excipients, see section 6.1.

## 3 PHARMACEUTICAL FORM

Tablets.



White, round tablet with a single score line separating the identifying code  $\left( \frac{AE}{2} \right)$  on one side.

The score line is only to facilitate breaking for ease of swallowing and not to divide into equal doses.

## 4 CLINICAL PARTICULARS

### 4.1 Therapeutic Indications

Treatment of infections caused by trimethoprim-sensitive organisms including urinary and respiratory tract infections and prophylaxis of recurrent urinary tract infections.

### 4.2 Posology and method of administration

#### Posology

#### 1. Treatment of respiratory and urinary tract infections:

*Adults and children over 12 years:* 200 mg twice daily for 7 - 10 days.

The first dosage on the first day can be doubled.

#### 2. Prophylaxis of recurrent urinary tract infection:

*Adults and children over 12 years:* The usual dose is 100 mg at night.

An extra 100 mg may be taken in the morning, if necessary.

#### 3. Dosage in renal impairment:

eGFR (ml/min)	Dosage advised
Over 30	Normal
15-30	Normal for 3 days then half dose
Under 15	Half normal dose

Monitoring of renal function and serum electrolytes should be considered particularly with longer term use, in patients with impaired renal function.

Trimethoprim should only be initiated and used in dialysis patients under close supervision from specialists in both infectious disease and renal medicine. Trimethoprim is removed by dialysis.

Monitoring trimethoprim plasma concentration may be considered with long term therapy but the value of this in individual cases should first be discussed with specialists in infectious disease and renal medicine.

#### Paediatric population

Monotrim 100 mg Tablets are not recommended for use in children below age 12 years. Other suitable formulations (e.g. Monotrim 10 mg/ml Suspension) are available for this patient population.

#### Method of administration

For oral use.

### **4.3 Contraindications**

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1

Pregnancy (see section 4.6).

Premature infants and neonates under 6 weeks (see section 4.2).

Blood dyscrasias.

### **4.4 Special warnings and precautions for use**

Prolonged use of an anti-infective may result in the development of superinfection due to organisms resistant to that anti-infective.

Trimethoprim may cause a depression of haemopoiesis. During long-term therapy haematology should be monitored regularly in order to detect possible pancytopenia. Particular attention should be paid to patients showing a tendency to folate deficiency, which may be aggravated by the use of this agent. If there is evidence of folic acid deficiency, calcium folinate should be administered and adequate response should be ensured by appropriate haematological monitoring. This treatment may not be effective unless trimethoprim is discontinued. In patients with impairment of renal function, care should be taken to avoid accumulation. Monitoring of renal function and serum electrolytes should be considered particularly with longer term use.

Trimethoprim should only be initiated and used in dialysis patients under close supervision from specialists in both infectious disease and renal medicine.

Special monitoring of serum electrolytes should be performed in risk patients due to risk of hyperkalaemia (see section 4.8).

Blood glucose should be monitored if used concomitantly with repaglinide (see section 4.5).

Elevations in serum potassium have been observed in some patients treated with trimethoprim. Patients at risk for the development of hyperkalaemia include those with renal insufficiency, poorly controlled diabetes mellitus, or those using concomitant potassium-sparing diuretics, potassium supplements, potassium-containing salt substitutes, renin angiotensin system inhibitors (eg: ACE inhibitors or renin angiotensin receptor blockers), or those patients taking other drugs associated with increases in serum potassium (e.g. heparin). If concomitant use of the above-mentioned agents is deemed appropriate, monitoring of serum potassium is recommended (see section 4.5).

#### Excipients

This medicine contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or glucose-galactose malabsorption should not take this medicine.

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

Folate antagonists and anticonvulsants: Trimethoprim may induce folate deficiency in patients predisposed to folate deficiency such as those taking folate antagonists or anticonvulsants.

Bone marrow depressants: Trimethoprim may increase the potential for bone marrow aplasia. Cytotoxics such as azathioprine, mercaptopurine, methotrexate, increase the risk of haematological toxicity when given with trimethoprim.

Phenytoin and Digoxin: Careful monitoring of patients treated with digoxin or phenytoin is advised as trimethoprim may increase plasma concentration of digoxin and phenytoin by increasing their elimination half-life.

Diuretics: In elderly patients concurrently taking diuretics, primarily thiazides, an increased incidence of thrombocytopenia with purpura has been reported. Rare cases of hyponatraemia have been reported in patients treated with trimethoprim and potassium sparing diuretics and/or thiazide diuretics.

Concomitant use of drugs that may increase serum potassium levels may lead to a significant increase in serum potassium. Potassium-sparing diuretics, potassium supplements, potassium-containing salt substitutes, renin-angiotensin system inhibitors (eg: ACE inhibitors or renin angiotensin receptor blockers) and other potassium increasing substances (eg: heparin). Monitoring of potassium should be undertaken as appropriate (see section 4.4).

Ciclosporin: Ciclosporin may increase nephrotoxicity of trimethoprim.

Anticoagulants: The anticoagulatory effect of warfarin and other coumarins may be increased when taken together with trimethoprim.

Procainamide: Trimethoprim increases plasma concentration of procainamide.

Lamivudine: Trimethoprim may increase the plasma concentration of lamivudine.

Oestrogens: Trimethoprim may possibly reduce the contraceptive effect of oestrogens.

Oral typhoid vaccine: This is inactivated by concomitant administration of anti-bacterials.

Pyrimethamine: The anti-folate effect may be increased if there is concomitant administration with trimethoprim.

Dapsone: Plasma concentrations of trimethoprim and dapsone may increase when taken together.

Repaglinide: Trimethoprim may enhance the effect of repaglinide (see section 4.4).

## **4.6 Fertility, pregnancy and lactation**

### Pregnancy

Trimethoprim should not be used during pregnancy.

### Breast-feeding

Trimethoprim is excreted in breast milk. This should be kept in mind when considering administration to lactating women.

## **4.7 Effects on ability to drive and use machines**

Monotrim 100 mg Tablets has no or negligible influence on the ability to drive and use machines.

## **4.8 Undesirable effects**

The frequencies of the undesirable effects listed below are not known (cannot be estimated from the available data).

### **Infections and infestations**

Aseptic meningitis.

### **Blood and lymphatic system disorders**

Depression of haemopoiesis (see sections 4.4 and 4.5).

### **Immune system disorders**

Hypersensitivity, anaphylaxis.

### **Metabolism and nutrition disorders**

Hyperkalaemia, especially in patients with impaired renal function and in elderly patients.

**Eye disorders**

Uveitis.

**Gastrointestinal disorders**

Nausea, vomiting, gastrointestinal upset.

**Hepatobiliary disorders**

Disturbances of liver enzyme values, jaundice.

**Skin and subcutaneous tissue disorders:**

Pruritus, skin rash, photosensitivity, angioedema.

Erythema multiforme, Stevens Johnson syndrome, toxic epidermal necrolysis

**Musculoskeletal and connective tissue disorders:**

Myalgia.

**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

HPRa Pharmacovigilance

Website: [www.hpra.ie](http://www.hpra.ie)

**4.9 Overdose**

Symptomatic treatment, gastric lavage and forced diuresis can be used. Depression of haematopoiesis by trimethoprim can be counteracted by intramuscular administration of calcium folinate.

**5 PHARMACOLOGICAL PROPERTIES****5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Trimethoprim and derivatives, ATC code: J01EA01

Trimethoprim is an antimicrobial agent.

Mechanism of action

The antimicrobial activity is due to selective inhibition of bacterial dihydrofolate reductase. In-vitro trimethoprim has effect on most Gram-positive and Gram-negative aerobic organisms, including enterobacteria such as *E.coli*, *Proteus*, *Klebsiella pneumoniae*, *Streptococcus faecalis*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, and *Staphylococcus aureus*.

It has no effect on *Mycobacterium tuberculosis*, *Neisseria gonorrhoeae*, *Pseudomonas aeruginosa*, *Treponema pallidum*, or anaerobic bacteria.

**5.2 Pharmacokinetic properties**Absorption and Biotransformation

Trimethoprim is absorbed rapidly and almost completely after oral administration and maximum plasma concentrations are reached after 1- 4 hours. Peak plasma concentration of about 1 µg per ml has been reported after a single dose of 100 mg.

Half-life is about 12 hours in patients with normal renal function but up to 20 - 50 hours in anuric patients.

Distribution

Trimethoprim is rapidly and widely distributed to various tissues and fluids, including kidneys, liver, spleen, bronchial secretions, saliva and prostatic tissue and fluid. Tissue concentration is generally higher than plasma concentration.

Elimination

Trimethoprim is predominantly excreted in the urine in unchanged form. Urinary concentrations are generally well above the MIC of common pathogens for more than 24 hours after the last dosage.

### **5.3 Preclinical safety data**

Not relevant (widely used in clinical practice).

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Lactose monohydrate  
Potato starch  
Talc  
Gelatin  
Magnesium stearate

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

5 years.

### **6.4 Special precautions for storage**

Store below 25°C.

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

HDPE tablet container with LDPE closure.  
100 and 500 tablets.

Not all pack sizes may be marketed.

### **6.6 Special precautions for disposal**

No special requirements.

## **7 MARKETING AUTHORISATION HOLDER**

Chemidex Pharma Limited  
Vision Exchange Building  
Triq it-Territorjals, Zone 1  
Central Business District  
Birkirkara  
CBD 1070  
Malta

## **8 MARKETING AUTHORISATION NUMBER**

PA22643/002/002

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

Date of first authorisation: 01 November 1982

Date of last renewal: 05 June 2009

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

16 October 2020

CRN009W6X

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