# SCHEDULING STATUS: S4

## 1. NAME OF THE MEDICINE

## SALAZOPYRIN<sup>®</sup> 500 mg tablets

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each SALAZOPYRIN 500 tablet contains sulphasalazine 500 mg.

Sugar free.

For the full list of excipients, see section 6.1.

### 3. PHARMACEUTICAL FORM

Tablets

SALAZOPYRIN 500 tablets are yellow-orange, round tablets, scored with 'KPh' on one side and '101'

on the other.

## 4. CLINICAL PARTICULARS

## 4.1 Therapeutic indications

Ulcerative colitis

For the treatment of acute ulcerative colitis. For maintenance of remission in ulcerative colitis.

Crohn's disease

For the treatment of acute Crohn's disease. Maintenance of remission of Crohn's disease.

### 4.2 Posology and method of administration

### Posology

The dosage should be adjusted according to the response to the treatment and the patient's tolerance to SALAZOPYRIN. The tablets should be taken at regular intervals during the day, preferably with meals. Night-time intervals between doses should not exceed eight hours.

Patients not previously treated with SALAZOPYRIN are advised to raise the dose gradually during the first few weeks. Patients experiencing gastrointestinal side effects to the uncoated SALAZOPYRIN are advised to use SALAZOPYRIN EN or a lower dose.

### Ulcerative colitis/Crohn's disease

Adults

Acute attacks: Two to four tablets every six hours with a maximum of 24 tablets (12 g) per day.

Remission: The dose must be reduced to 4 tablets (2 g) per day.

### **Paediatric population**

SALAZOPYRIN tablets are not suitable for patients under 18 years of age.

### Method of administration

For oral use.

### 4.3 Contraindications

- Hypersensitivity to sulphasalazine, sulphonamides, salicylates or the excipients of SALAZOPYRIN (listed in section 6.1)
- Porphyria
- Haemorrhagic diathesis
- Severe renal or hepatic failure

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- Gastric and duodenal ulcers
- Pregnancy and lactation (see section 4.6)
- Infants and children

### 4.4 Special warnings and precautions for use

Adequate fluid intake (1 200 mL to 1 500 mL daily) is necessary to reduce the risk of crystalluria. If this cannot be accomplished, sodium bicarbonate may be given.

Treatment should be discontinued immediately when a rash appears because of the danger of severe allergic reactions such as the Stevens-Johnson syndrome.

SALAZOPYRIN should not be given to patients with impaired hepatic or renal function or with blood dyscrasias.

SALAZOPYRIN inhibits the absorption and metabolism of folic acid and may cause folic acid deficiency, potentially resulting in serious haematological toxicity.

SALAZOPYRIN may cause yellow staining of soft contact lenses.

SALAZOPYRIN should be given with caution to patients with severe allergy or bronchial asthma.

SALAZOPYRIN should be administered under medical supervision before and during therapy. Complete blood counts, including differential white cell count and liver function tests should be performed in all patients before starting therapy with SALAZOPYRIN and every second week during the first three months of therapy. During the second three months, the same tests should be done once monthly and thereafter once every three months and as clinically indicated. Assessment of renal function (including urinalysis) should be performed in all patients initially and at least monthly for the first three months of treatment.

If serious toxic or hypersensitivity reactions occur, SALAZOPYRIN should be discontinued immediately. Some weeks after discontinuation, SALAZOPYRIN may be re-introduced beginning with a low dose followed by small increases in dosage regimen.

Patients, especially those with glucose-6-phosphate dehydrogenase deficiency, should be observed closely for signs of haemolytic anaemia.

Oligospermia and infertility in men treated with SALAZOPYRIN has been reported.

Patients with HIV may have an increased incidence of adverse effects, especially rash, fever and leukopenia.

Patients with slow acetylator phenotype are more likely to show adverse effects due to sulphapyridine.

Reduction of dosage may be required in patients with renal impairment.

Complete blood counts and urinalyses should be carried out particularly during prolonged therapy.

SALAZOPYRIN may cause an orange colouring of the urine.

### 4.5 Interaction with other medicines and other forms of interaction

The hypoglycaemic effect of sulphonylureas may be enhanced. Interactions with warfarin, methotrexate, probenecid, sulfinpyrazone, spironolactone, furosemide and rifampicin may occur.

Potentiation of undesirable glucocorticoid effects on the stomach may occur.

SALAZOPYRIN chelates iron and interferes with its absorption.

The action of SALAZOPYRIN may be antagonised by para-aminobenzoic acid and medicines derived from it, particularly the procaine group of local anaesthetics.

Paraldehyde has been reported to increase the acetylation of sulphonamides with subsequent increased risk of crystalluria with concomitant use with SALAZOPYRIN.

Reduced absorption of folate and digoxin have been reported when used concomitantly with SALAZOPYRIN.

Concomitant antibiotic therapy may possibly alter the patient's response to SALAZOPYRIN.

Sulphonamides as in SALAZOPYRIN may potentiate the effects of oral coagulants, methotrexate and phenytoin. Coadministration of SALAZOPYRIN and methotrexate to rheumatoid arthritis patients did not alter the pharmacokinetic disposition of the medicines. However, an increased incidence of gastrointestinal adverse events, especially nausea, was reported.

Due to inhibition of thiopurine methyltransferase (TPMT) by SALAZOPYRIN, bone marrow suppression and leukopenia have been reported when thiopurine 6-mercaptopurine or its prodrug, azathioprine, and oral SALAZOPYRIN were used concomitantly.

Several reports of possible interference with measurements, by liquid chromatography, of urinary normetanephrine causing a false-positive test result have been observed in patients exposed to sulphasalazine or its metabolite, mesalamine/mesalazine.

### 4.6 Fertility, pregnancy and lactation

SALAZOPYRIN is contraindicated in pregnancy and lactation (see section 4.3).

#### Pregnancy

SALAZOPYRIN inhibits the absorption and metabolism of folic acid which may lead to teratogenicity.

SALAZOPYRIN should therefore not be used during pregnancy or lactation.

#### Breastfeeding

Sulphasalazine as in SALAZOPYRIN is found in breast milk. There have been reports of bloody stools or diarrhoea in infants who were breastfeeding from mothers on SALAZOPYRIN.

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

SALAZOPYRIN may affect your ability to drive and use machinery (see section 4.8).

#### 4.8 Undesirable effects

#### Tabulated summary of adverse reactions

The following adverse events have been reported in association with SALAZOPYRIN therapy. In the table below all adverse reactions, which occurred at an incidence greater than placebo are listed by system organ class and frequency: Very common ( $\geq 1/10$ ); common ( $\geq 1/100$  to < 1/10); uncommon ( $\geq 1/100$  to < 1/100); rare ( $\geq 1/10000$  to < 1/1000); very rare (< 1/10000). The adverse reactions may also be associated with the underlying disease and/or concomitant medicines.

System organ class	Frequency	Adverse reaction
Infections and	Not known	Aseptic meningitis
infestations		
Blood and lymphatic	Common	Leukopenia (following bone marrow depression) and
system disorders		red cell abnormalities
	Uncommon	Thrombocytopenia, eosinophilia,
		methaemoglobinaemia and hypoprothrombinaemia
	Not known	Agranulocytosis, aplastic anaemia, megaloblastic
		anaemia and haemolytic anaemia
Immune system	Uncommon	Anaphylaxis
disorders	Not known	Serum sickness
Metabolism and	Common	Loss of appetite
nutrition disorders	Uncommon	Hypoglycaemic effect (with high doses)
Psychiatric disorders	Uncommon	Depression
Nervous system	Common	Dizziness
disorders	Uncommon	Peripheral neuropathy, ataxia, fatigue, insomnia,
		peripheral neuritis, vertigo, convulsions,
		hallucinations, multiple sclerosis and chorea
Eye disorders	Uncommon	Yellow staining of soft contact lenses, optic
		neuropathy and transient myopia
Ear and labyrinth	Common	Tinnitus
disorders		
Cardiac disorders	Uncommon	Cyanosis and myocarditis
Respiratory, thoracic	Common	Cough
and mediastinal	Uncommon	Fibrosing alveolitis, hypothyroidism and dyspnoea
disorders	Not known	Interstitial lung disease and eosinophilic infiltration

Gastrointestinal	Very common	Gastric distress and nausea
disorders	Common	Abdominal pain, vomiting and diarrhoea
	Uncommon	Pseudomembranous colitis (as a result of alteration of
		the intestinal bacterial flora) and stomatitis
	Not known	Aggravation of ulcerative colitis, pancreatitis
Hepato-biliary	Uncommon	Hepatitis
disorders	Not known	Hepatic failure and fulminant hepatitis, hepatotoxic
		reactions and transient elevation of liver enzymes
Skin and	Common	Pruritus, exanthema, erythema, and urticaria
subcutaneous tissue	Uncommon	Alopecia, skin rashes, photosensitivity, yellow skin
disorders		discolouration, contact dermatitis, exfoliative
		dermatitis and toxic epidermal necrolysis
	Not known	Drug rash with eosinophilia and systemic symptoms
		(DRESS)
Musculoskeletal and	Uncommon	Arthralgia
connective tissue	Not known	Systemic lupus erythematosus
disorders		
Renal and urinary	Common	Urine may be coloured orange
disorders	Uncommon	Nephrotoxic syndrome, Stevens-Johnson syndrome
		(due to crystalluria), proteinuria and haematuria
Reproductive system	Common	Oligospermia
and breast disorder		
General disorders and	Common	Fever and headache
administration site	Uncommon	Manifestations of a generalised hypersensitivity
conditions		reaction to sulphonamides includes a syndrome
		resembling, pulmonary eosinophilia, and vasculitis

including polyarteritis nodosa, periorbital oedema,
erythema nodosum and parotitis

#### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicine is important. It allows continued monitoring of the benefit/risk balance of the medicine. Health care providers are asked to report any suspected adverse reactions to SAHPRA via the **"6.04 Adverse Drug Reactions Reporting Form**", found online under SAHPRA's publications:

https://www.sahpra.org.za/Publications/Index/8

#### 4.9 Overdose

Symptoms of overdosage include those of salicylism and overdosage with sulphonamides. Treatment is symptomatic and supportive.

### 5. PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties

Category and class: A 20.2.1 Sulphonamides

The mode of action of sulphasalazine (SSZ) or its metabolites, 5-aminosalicylic acid (5-ASA) and sulfapyridine (SP) is still under investigation. It is thought to be related to anti-inflammatory and/or immunomodulatory properties. Clinical studies utilising rectal administration of SSZ, SP and 5-ASA have indicated that the major therapeutic action may reside in the 5-ASA moiety. The relative contribution of the parent drug and the major metabolites in rheumatoid arthritis is unknown.

### 5.2 Pharmacokinetic properties

Absorption

Following oral administration of 1 g of SSZ to 9 healthy males, less than 15 % of a dose of SSZ is absorbed as parent drug. Detectable serum concentrations of SSZ have been found in healthy subjects within 90 minutes after the ingestion. Maximum concentrations of SSZ occur between 3- and 12-hours post-ingestion, with the mean peak concentration (6 µg/mL) occurring at 6 hours. In comparison, peak plasma levels of both SP and 5-ASA occur approximately 10 hours after dosing. This longer time to peak is indicative of gastrointestinal transit to the lower intestine, where bacteria-mediated metabolism occurs. SP apparently is well absorbed from the colon, with an estimated bioavailability of 60 %. In this same study, 5-ASA is much less well absorbed from the gastrointestinal tract, with an estimated bioavailability of from 10 % to 30 %.

#### Distribution

Following intravenous injection, the calculated volume of distribution (Vdss) for SSZ was 7,5  $\pm$  1,6 L. SSZ is highly bound to albumin (> 99,3 %), while SP is only about 70 % bound to albumin. Acetylsulfapyridine (AcSP), the principal metabolite of SP, is approximately 90 % bound to plasma proteins.

#### Metabolism

SSZ is metabolised by intestinal bacteria to SP and 5-ASA. Approximately 15 % of a dose of SSZ is absorbed as parent and is metabolised to some extent in the liver to the same two species. The observed plasma half-life for intravenous sulphasalazine is 7,6  $\pm$  3,4 hrs. The primary route of metabolism of SP is via acetylation to form AcSP. The rate of metabolism of SP to AcSP is dependent upon acetylator phenotype. In fast acetylators, the mean plasma half-life of SP is 10,4 hrs, while in slow acetylators it is 14,8 hrs. SP can also be metabolised to 5-hydroxy-sulfapyridine (SPOH) and N-acetyl-5-hydroxy-sulfapyridine. 5-ASA is primarily metabolised in both the liver and intestine to N-acetyl-5-aminosalicylic acid via a non-acetylation phenotype dependent route. Due to low plasma levels produced by 5-ASA after oral administration, reliable estimates of plasma half-life are not possible.

### Excretion

Absorbed SP and 5-ASA and their metabolites are primarily eliminated in the urine either as free metabolites or as glucuronide conjugates. The majority of 5-ASA stays within the colonic lumen and is excreted as 5-ASA and acetyl-5-ASA with the faeces. The calculated clearance of SSZ following intravenous administration was 1 L/hr. Renal clearance was estimated to account for 37 % of total clearance.

### 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Maize starch

Magnesium stearate

Colloidal silicon dioxide

### 6.2 Incompatibilities

Not applicable.

### 6.3 Shelf life

60 months.

### 6.4 Special precautions for storage

Store at or below 30 °C. Protect from moisture.

### 6.5 Nature and contents of container

Securitainers of 100 tablets.

### 6.6 Special precautions for disposal

No special requirements.

## 7. HOLDER OF CERTIFICATE OF REGISTRATION

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## 8. REGISTRATION NUMBER

E/20.2.1/909

## 9. DATE OF FIRST AUTHORISATION

19 April 1995

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

20 March 2021

# BOTSWANA: S2

Reg. No.: B9300755

## NAMIBIA: S2

Reg. No.: 04/20.2.1/0741