

Summary of Product Characteristics

1 NAME OF THE MEDICINAL PRODUCT

Rowasip Max Strength Cold and Flu with Decongestant 1000 mg/12.2 mg powder for oral solution

2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each sachet contains 1000 mg of paracetamol and 12.2 mg of phenylephrine hydrochloride corresponding to 10.0 mg of phenylephrine.

Excipients with known effect:

Each sachet contains 3.8 g of sucrose, 35 mg of aspartame (E 951) and 1 mg of sorbitol (E 420).

For the full list of excipients, see section 6.1

3 PHARMACEUTICAL FORM

Powder for oral solution

Free flowing white powder with lemon odour

4 CLINICAL PARTICULARS

4.1 Therapeutic Indications

Short term symptomatic treatment of colds and influenza (aches, fever) when associated with nasal congestion. Rowasip Max is indicated in adults and adolescents over 16 years of age.

4.2 Posology and method of administration

Posology

Adults and adolescents over 16 years of age who weigh more than 50 kg

One sachet dissolved in a mug (250 ml) by stirring in hot water.

The dose may be repeated in 4-6 hours.

No more than four doses should be taken in 24 hours.

Paediatric Population

Children under 16 years of age:

Rowasip Max is not recommended for use in children below the age of 16 years without medical advice.

Hepatic impairment

In patients with impaired hepatic function or Gilbert's syndrome, the dose must be reduced or the dosing interval prolonged.

Renal impairment

In case of severe renal insufficiency (creatinine clearance < 10 ml/min) the dosing interval should be at least 8 hours.

Elderly:

There is no indication that dose needs to be modified in the elderly.

Medical supervision is recommended if symptoms are not relieved or deteriorate within 3 days of therapy with Rowasip Max.

Method of Administration

Oral administration after dissolution in water.

4.3 Contraindications

- Hypersensitivity to the active substances or to any of the excipients listed in section 6.1
- Severe coronary heart disease
- Hypertension

- Glaucoma
- Hyperthyroidism
- Use in patients taking tricyclic antidepressants
- Use in patients who are currently taking or have taken monoamine oxidase inhibitors (MAOIs) within the last 2 weeks
- Severe impairment of liver function
- Acute Hepatitis
- Alcohol abuse

4.4 Special warnings and precautions for use

Use with caution in patients with

- Raynaud's phenomenon
- Diabetes
- Moderate and severe renal insufficiency
- Liver function disorders: mild to moderate hepatocellular insufficiency (including Gilbert's syndrome), severe hepatic insufficiency (Child-Pugh >9), acute hepatitis and concomitant treatment with medicinal products affecting hepatic functions
- haemolytic anaemia
- dehydration
- alcohol abuse
- chronic malnutrition
- glutathione depletion due to metabolic deficiencies
- prostatic hypertrophy
- phaeochromocytoma

This product should not be combined with other medicinal products that contain paracetamol. Higher doses than recommended may lead to severe liver damage. Clinical signs of liver damage normally become evident 2 days after ingestion. Antidote should be given as soon as possible. See also section 4.9.

Alcoholic beverages should be avoided while taking this medicine because alcohol use in combination with paracetamol may cause liver damage.

Patients should not take other sympathomimetic containing products concomitantly, including other nasal or eye decongestant products.

Precaution should be observed in patients with asthma who are sensitive to acetylsalicylic acid, since mild bronchospasms are reported in association with paracetamol (cross reaction).

Each sachet contains 3.9 g of sucrose.

This should be taken into account in patients with diabetes mellitus.

Rowasip Max contains sucrose, sorbitol (E 420), aspartame (E 951) and sodium

Patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrase-isomaltase insufficiency should not take this medicinal product.

Aspartame (E 951) is a source of phenylalanine. May be harmful for people with phenylketonuria.

This medicinal product contains less than 1 mmol sodium (23 mg) per sachet, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interactions

Paracetamol

Drugs which induce hepatic microsomal enzymes, such as alcohol, barbiturates, anticonvulsants such as phenytoin, phenobarbital, methylphenobarbital and primidone, rifampicin, monoamine oxidase inhibitors and tricyclic antidepressants, may increase the hepatotoxicity of paracetamol, particularly after overdose.

The speed of absorption of paracetamol may be decreased by anticholinergics (e.g., glycopyrronium, propantheline), and increased by metoclopramide or domperidone and absorption reduced by cholestyramine. Isoniazide reduces paracetamol clearance with possible potentiation of its action and/or toxicity, by inhibition of its metabolism in the liver. The anticoagulant

effect of warfarin and other coumarins may be enhanced by prolonged regular daily use of paracetamol with increased risk of bleeding; occasional doses have no significant effect. Probenecid reduces clearance of paracetamol by inhibiting conjugation with glucuronic acid.

Regular use of paracetamol possibly reduces metabolism of zidovudine (increased risk of neutropenia).

The elimination half-life of chloramphenicol may be prolonged by paracetamol.

Phenylephrine

Phenylephrine may adversely interact with other sympathomimetics, vasodilators, alpha- and beta-blockers and other antihypertensives (including guanethidine).

The vasopressor effects of phenylephrine can be potentiated by digoxin, MAO inhibitors, tricyclic antidepressants such as amitriptyline, amoxapine, clomipramine, desipramine and doxepine or tetracyclics such as maprotiline; antidepressants such as phenelzine, isocarboxylic acid, nialamide, tranylcipromine, moclobemide; Parkinson's disease medicinal products such as selegiline, and others such as furazolidone.

Contraindicated for patients currently receiving or within two weeks of stopping therapy with monoamine oxidase inhibitors

Paediatric population

Frequency, type and severity of interactions in children over the age of 16 years are expected to be the same as in adult.

4.6 Fertility, pregnancy and lactation

Pregnancy

Paracetamol

Epidemiological studies on neurodevelopment in children exposed to paracetamol in utero show inconclusive results.

Phenylephrine

There are limited data on the use of phenylephrine in pregnant women. Vasoconstriction of uterine vessels and reduced uterine blood flow associated with use of phenylephrine may result in fetal hypoxia. Until more information is available, use of phenylephrine should be avoided during pregnancy.

Breast-feeding

Paracetamol

Paracetamol is excreted in breastmilk, but not in a clinically significant amount. Available published data do not contraindicate breast feeding.

Phenylephrine

There are no data available on whether phenylephrine is released into breast milk and no reports on the effects of phenylephrine on the nursing infant. Until more data are available, use of phenylephrine should be avoided in lactating woman.

In summary Rowasip Max is not recommended during pregnancy and lactation.

Fertility

There is no evidence from non-clinical studies indicating effects of paracetamol on male or female fertility at clinically relevant doses. The effects of phenylephrine on male or female fertility have not been studied.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. No such effects have been described to date.

4.8 Undesirable effects

The frequency of occurrence of undesirable effect is usually classified as follows

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 the available data)

Paracetamol

System organ class	Frequency	Symptoms
Blood and lymphatic system disorders	Rare	Blood dyscrasias including platelet disorders, agranulocytosis, leucopenia, thrombocytopenia, haemolytic anaemia, pancytopenia
Immune system disorders	Rare	Allergic or hypersensitivity reactions including skin rashes, urticaria, anaphylaxis and bronchospasm
Gastrointestinal disorders	Very rare	Acute pancreatitis
Hepatobiliary disorders	Rare	Abnormal hepatic function (increase in hepatic transaminases), hepatic failure, hepatic necrosis, jaundice.
Skin and subcutaneous tissue disorders	Rare	Hypersensitivity including skin rash and urticaria, pruritus, sweating, purpura, angioedema
Renal and urinary disorders	Very rare	Interstitial nephritis after prolonged use of high doses of paracetamol Sterile pyuria (cloudy urine)

Erythema multiforme, oedema of the larynx, anaphylactic shock, anaemia, liver alteration and hepatitis, renal alteration (severe renal impairment, haematuria, anuresis), gastro intestinal effects and vertigo have been reported with a not known frequency. Very rare cases of serious skin reactions have been reported.

Paediatric population

Frequency, type and severity of adverse reactions in children over the age of 16 years are expected to be the same as in adults.

Phenylephrine

System organ class	Frequency	Symptoms
Immune system disorders	Rare	Allergic or hypersensitivity reactions including skin rash, urticaria, anaphylaxis and bronchospasm
Nervous system disorders	Very rare	Insomnia, nervousness, tremor, anxiety, restlessness, confusion, irritability, dizziness and headache may occur
Cardiac disorders	Rare	Tachycardia, palpitation
Vascular disorders	Rare	Blood pressure increase
Gastrointestinal disorders	Common	Anorexia, nausea and vomiting

Paediatric population

Frequency, type and severity of adverse reactions in children over the age of 16 years are expected to be the same as in adults.

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 HPRC Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2; Tel: +353 1 6764971; Fax: +353 1 6762517.

Website: www.hpra.ie; E-mail: medsafety@hpra.ie.

4.9 Overdose

Paracetamol overdose can result in liver damage which may be fatal. Symptoms generally appear within the first 24 hours and comprise: nausea, vomiting, anorexia, pallor, and abdominal pain, or patients may be asymptomatic.

Overdose of paracetamol can cause liver cell necrosis likely to induce complete and irreversible necrosis, resulting in hepatocellular insufficiency, metabolic acidosis and encephalopathy which may lead to coma and death. Simultaneously, increased levels of hepatic transaminases (AST, ALT), lactate dehydrogenase and bilirubin are observed together with increased prothrombin levels that may appear 12 to 48 hours after administration.

Liver damage is likely in patients who have taken more than the recommended amounts of paracetamol. It is considered that excess quantities of toxic metabolite (usually adequately detoxified by glutathione when normal doses of paracetamol are ingested), become irreversibly bound to liver tissue.

Some patients may be at increased risk of liver damage from paracetamol toxicity.

Risk Factors include:

- Patients with liver disease
- Elderly patients
- Young children
- Patients receiving long-term treatment with carbamazepine, phenobarbitone, phenytoin, primidone, rifampicin, St John's Wort or other medicinal products that induce liver enzymes
- Patients who regularly consume ethanol in excess of recommended amounts
- Patients with glutathione depletion e.g. eating disorders, cystic fibrosis, HIV infection, starvation, cachexia.

Symptoms

Symptoms of paracetamol overdose in the first 24 hours are pallor, nausea, vomiting, anorexia and abdominal pain. Liver damage may become apparent 12 to 48 hours after ingestion. Abnormalities of glucose metabolism and metabolic acidosis may occur. In severe poisoning, hepatic failure may progress to encephalopathy, haemorrhage, hypoglycaemia, cerebral oedema and death. Acute renal failure with acute tubular necrosis strongly suggested by loin pain, haematuria and proteinuria may develop even in the absence of severe liver damage. Cardiac arrhythmias and pancreatitis have been reported.

After prolonged use of high doses of paracetamol hypokalemia may develop.

Management

Immediate transfer to hospital.

Blood sampling to determine initial paracetamol plasma concentration. In the case of a single acute overdose, paracetamol plasma concentration should be measured 4 hours post ingestion. Administration of activated charcoal should be considered if the overdose of paracetamol has been ingested within the previous hour.

Gastric lavage.

The antidote N-acetylcysteine should be administered as soon as possible in accordance with national treatment guidelines.

Symptomatic treatment should be implemented.

5 PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Analgesics, other analgesics and antipyretics

ATC- Code: N02BE51

Mechanism of action

Paracetamol

In vivo, paracetamol has both analgesic and antipyretic activity, which is believed to be mediated through inhibition of the cyclooxygenase (COX) pathway within the central nervous system. Although this mechanism is shared with the nonsteroidal anti-inflammatory drugs (NSAIDs), paracetamol does not have significant anti-inflammatory activity nor does it inhibit production of pro-clotting thromboxanes. Additional pathways such as the serotonergic descending pain pathways may be involved in the antinociceptive effect of paracetamol.

Phenylephrine

Phenylephrine is a potent alpha₁-adrenoceptor agonist. Its action on the peripheral alpha₁ receptors induces vasoconstriction, which in the nasal mucosa, reduces oedema and nasal swelling. When given intravenously, phenylephrine consistently increases total peripheral resistance (TPR), systolic (SBP) and diastolic (DBP) blood pressure, while heart rate declines as a result of reflex bradycardia. The hemodynamic alterations brought about by IV phenylephrine may differ according to age and baseline blood pressure. Young normotensive subjects will show larger heart rate decreases and lower SBP increases than young hypertensives

and old normotensives, while old hypertensives show the least pronounced reflex bradycardia and most pronounced SBP rise. Orally administered phenylephrine has not demonstrated consistent cardiovascular effects at the recommended doses of 10 – 12.2 mg QID, and oral doses of 40 to 60 mg are needed to elicit clinically meaningful cardiovascular effects such as increased diastolic blood pressure and reflex cardiac slowing.

Hypertensive interactions occur between sympathomimetic amines such as phenylephrine and monoamine oxidase inhibitors. Phenylephrine may reduce the efficacy of beta-blockers and antihypertensives.

5.2 Pharmacokinetic properties

Paracetamol

Absorption/Distribution

The absolute bioavailability of orally administered paracetamol is 75 %, and is probably subject to first-pass metabolism. Tmax, though formulation-dependent, is usually between 30 and 120 minutes. The extent of absorption is however not formulation-dependent.

Elimination

Half-life is approximately 2 - 2.5 hours.

Biotransformation

The major metabolites are glucuronide and sulphate conjugates (>80 %) which are excreted in urine. A small amount (<10 %) of paracetamol is oxidized in the liver by cytochrome P4502E1 (CYP2E1). This reaction produces the highly reactive metabolite N-acetyl- p-benzoquinone imine (NAPQI), which is responsible for the characteristic centrilobular hepatotoxicity associated with paracetamol overdoses.

Phenylephrine

Absorption/Distribution

When administered by intravenous infusion, free 3H-phenylephrine concentration peaks at the end of the infusion, after serum concentration declines in a biexponential pattern, with an 80 % decline in the first 15 minutes, followed by a slower decline with an average half-life of 2 hours. When taken orally, phenylephrine is absorbed from the gastrointestinal tract with a serum peak between 45 and 75 minutes.

Elimination

Following a short phase of fast elimination, the average elimination half-life is 2.5 hours. At steady state, the volume of distribution is 340 l, indicating storage in certain organ compartments. Renal clearance is only a fraction of total plasma clearance.

Biotransformation

Due to extensive first-pass metabolism, total phenylephrine bioavailability is approximately 38 %, of which 1% is active, non-conjugated parent phenylephrine.

Phenylephrine retains activity as a nasal decongestant when given orally, the active substance distributing through the systemic circulation to the vascular bed of nasal mucosa. When taken by mouth as a nasal decongestant phenylephrine is usually given at intervals of 4-6 hours.

5.3 Preclinical safety data

Conventional studies using the currently accepted standards for the evaluation of toxicity to reproduction and development are not available.

6 PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Ascorbic acid

Sucrose

Aspartame (E 951)

Lemon flavours (containing: natural lemon oils and natural and nature identical flavouring substances, maltodextrin, mannitol (E 421), gluconolactone, acacia gum, sorbitol (E 420), silica colloidal anhydrous and α -tocopherol (E 307))

Saccharin sodium
Silica colloidal anhydrous
Citric acid anhydrous
Sodium citrate

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years
Shelf life after reconstitution in hot water: 1 hour.

6.4 Special precautions for storage

This medicinal product does not require any special temperature storage conditions.
Store in the original packaging in order to protect from light and moisture.

6.5 Nature and contents of container

The powder for oral solution is packed in laminated aluminium paper foil sachets which are inserted in a carton.
Pack sizes:
10 sachets

Not all pack sizes may be marketed

6.6 Special precautions for disposal

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

7 MARKETING AUTHORISATION HOLDER

Rowex Ltd
Newtown
Bantry
Co. Cork
Ireland

8 MARKETING AUTHORISATION NUMBER

PA0711/227/002

9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 12th December 2014
Date of last renewal: 10th August 2019

10 DATE OF REVISION OF THE TEXT

November 2019