

# **AUSTRALIAN PRODUCT INFORMATION – NORGESIC (ORPHENADRINE AND PARACETAMOL) TABLETS**

## **1 NAME OF THE MEDICINE**

Orphenadrine and paracetamol

## **2 QUALITATIVE AND QUANTITATIVE COMPOSITION**

Orphenadrine citrate 35 mg and paracetamol 450 mg tablets.

For the full list of excipients, see [Section 6.1](#) List of excipients.

## **3 PHARMACEUTICAL FORM**

Tablet, uncoated

White, scored, immediate release tablets marked N/C on one side and no markings on the other side.

## **4 CLINICAL PARTICULARS**

### **4.1 THERAPEUTIC INDICATIONS**

Tension headache, occipital headaches associated with spasm of skeletal muscles in the region of the head and neck. Acute and traumatic conditions of the limbs and trunk: sprains, strains, whiplash injuries, acute torticollis, prolapsed intervertebral disc.

### **4.2 DOSE AND METHOD OF ADMINISTRATION**

2 tablets three times daily.

### **4.3 CONTRAINDICATIONS**

- Glaucoma
- Prostatic hypertrophy or obstruction at the bladder neck,
- Myasthenia gravis
- Oesophageal spasm and pyloric or duodenal obstruction.
- Hypersensitivity to paracetamol, orphenadrine citrate or any of the excipients.

### **4.4 SPECIAL WARNINGS AND PRECAUTIONS FOR USE**

#### **Identified precautions**

Orphenadrine citrate should be used with caution in patients with tachycardia, cardiac decompensation, coronary insufficiency or cardiac arrhythmias, Gilbert's syndrome and Glucose – 6 – phosphate – dehydrogenase deficiency.

NORGESIC may be dangerous when used in large amounts or for long periods. Hepatotoxicity may occur with paracetamol even at therapeutic doses, after short treatment duration and in patients without pre-existing liver dysfunction. Hepatotoxicity may develop following as little as 10 to 15g of paracetamol and hepatic failure is known to occur occasionally with long term use of paracetamol.

Caution is advised in patients with underlying sensitivity to aspirin and/or to non-steroidal anti-inflammatory drugs (NSAIDs).

Caution is advised in patients with known analgesic intolerance or known bronchial asthma as hypersensitivity reactions including bronchospasm are possible.

Severe cutaneous adverse reactions (SCARs): Life threatening cutaneous reactions Stevens-Johnson Syndrome (SJS), and Toxic Epidermal Necrolysis (TEN) have been reported with the use of paracetamol.

Patients should be advised of the signs and symptoms and monitored closely for skin reactions. If symptoms or signs of SJS and TEN (e.g. progressive skin rash often with blisters or mucosal lesions) occur, patients should stop treatment immediately and seek medical advice.

Cases of high anion gap metabolic acidosis (HAGMA) due to pyroglutamic acidosis have been reported in patients with severe illness such as severe renal impairment and sepsis, or in patients with malnutrition or other sources of glutathione deficiency (e.g. chronic alcoholism) who were treated with paracetamol at therapeutic doses for a prolonged period or a combination of paracetamol and flucloxacillin. If HAGMA due to pyroglutamic acidosis is suspected, prompt discontinuation of paracetamol and close monitoring, including measurement of urinary 5-oxoproline, is recommended. The measurement of urinary 5-oxoproline may be useful to identify pyroglutamic acidosis as underlying cause of HAGMA in patients with multiple risk factors.

Concomitant treatment with other medicines that contain orphenadrine or paracetamol is not recommended.

Safety of continuous long-term therapy with orphenadrine has not been established. Therefore, if orphenadrine is prescribed for prolonged use, periodic monitoring of blood, urine and liver function is recommended.

### **Use in hepatic impairment**

Use with caution in patients with impaired liver function: Underlying liver disease increases the risk of paracetamol-related liver damage.

Cases of hepatic dysfunction/failure have been reported in patients with depleted glutathione levels, such as those who are severely malnourished, anorexic, have a low body mass index, are chronic heavy users of alcohol or have sepsis.

In patients with glutathione depleted states the use of paracetamol may increase the risk of metabolic acidosis.

### Use in renal impairment

Use with caution in patients with impaired kidney function. Administration of paracetamol to patients with moderate to severe renal impairment may result in accumulation of paracetamol conjugates.

### Use in the elderly

The elderly should be advised to take a reduced dosage as they may be more susceptible to anti-cholinergic side effects at regular doses.

### Paediatric use

NORGESIC is not recommended for children under 12 years of age.

### Effects on laboratory tests

*Uric acid and blood glucose:* Intake of paracetamol may affect the laboratory determination of uric acid by phosphotungstic acid and of blood glucose by glucose oxidase-peroxidase.

## 4.5 INTERACTIONS WITH OTHER MEDICINES AND OTHER FORMS OF INTERACTIONS

Interactions have been reported between orphenadrine and phenothiazines and other drugs with anti-muscarinic properties. Concomitant use with alcohol or other CNS depressants should be avoided.

- **Anticoagulants:** Paracetamol may increase the risk of bleeding in patients taking warfarin and other antivitamin K medicines. Anticoagulant dosage may require reduction, and patients should be monitored for appropriate coagulation and bleeding complications.

- **Chloramphenicol:** Paracetamol may increase chloramphenicol concentrations by slowing down excretion, entailing the risk of increased toxicity.

- **Cholestyramine:** reduces the absorption of paracetamol if given within 1 hour of paracetamol. Chelating resins can decrease the intestinal absorption of paracetamol and potentially decrease its efficacy if taken simultaneously. In general, there must be an interval of more than 2 hours between taking the resin and taking paracetamol, if possible.

- **Drugs which affect motility:**

- o Paracetamol absorption is increased by drugs which increase gastric emptying e.g. metoclopramide and domperidone

- o Paracetamol absorption is decreased by drugs which decrease gastric emptying such as propantheline, antidepressants with anticholinergic properties, and narcotic analgesics.

- **Flucloxacillin:** Co-administration of flucloxacillin with paracetamol may lead to high anion gap metabolic acidosis due to pyroglutamic acidosis, particularly in patients presenting risk factors of glutathione depletion, such as sepsis, malnutrition or chronic alcoholism.

- **Probenecid:** Paracetamol excretion may be affected and plasma concentrations altered when given probenecid.

- **Zidovudine:** When used concurrently with zidovudine, an increased tendency for neutropenia may develop. Combination of Paracetamol and zidovudine should be avoided.

• **Hepatotoxic Drugs and Liver Microsomal Enzyme Inducers:** The risk of paracetamol toxicity may be increased in patients receiving other potentially hepatotoxic drugs or drugs that induce liver microsomal enzymes, such as antiepileptics (such as phenobarbital, phenytoin, carbamazepine, topiramate), alcohol, barbiturates and rifampicin. The induced metabolism results in an elevated production of the hepatotoxic oxidative metabolite of paracetamol. Hepatotoxicity will occur if this metabolite exceeds the normal glutathione binding capacity.

#### **4.6 FERTILITY, PREGNANCY AND LACTATION**

##### **Effects on fertility**

No data available

##### **Use in pregnancy – Pregnancy Category B2**

NORGESIC is not recommended for use during pregnancy.

##### **Use in lactation.**

NORGESIC should not be taken during lactation as orphenadrine and paracetamol are excreted into breast milk.

#### **4.7 EFFECTS ON ABILITY TO DRIVE AND USE MACHINES**

Orphenadrine may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or driving a motor vehicle; ambulatory patients should therefore be cautioned accordingly.

#### **4.8 ADVERSE EFFECTS (UNDESIRABLE EFFECTS)**

Adverse effects are mainly due to the anti-cholinergic action of orphenadrine and are usually associated with higher doses.

##### **Orphenadrine citrate**

More common reactions

The known adverse effects include dryness of the mouth, tachycardia, palpitation, urinary hesitancy or retention, blurred vision, dilation of the pupils, increased ocular tension, weakness, nausea, headache, dizziness, constipation and drowsiness. These effects can usually be eliminated by reducing the dose.

Less common reactions

Sedation, skin rashes and other allergic reactions are very uncommon adverse effects. Infrequently an elderly patient may experience some degree of mental confusion. Very rare cases of aplastic anaemia associated with the use of orphenadrine have been reported.

##### **Paracetamol**

Reports of adverse reactions are rare.

The following reactions have been reported: dyspepsia, sweating, erythema, urticaria, anaphylactic shock, angioneurotic oedema, difficulty breathing, drop in blood pressure, nausea, allergic reactions such as skin rashes, hypersensitivity reactions and haematological reactions, including thrombocytopenia, leukopenia, neutropenia, agranulocytosis and pancytopenia. Toxic Epidermal Necrolysis (TEN), Stevens-Johnson Syndrome (SJS), acute generalised exanthematous

pustulosis, fixed drug eruption (see [Section 4.3 Special Warnings and Precautions for Use](#)) and cytolytic hepatitis, which may lead to acute hepatic failure, have also been reported.

Bronchospasm may be triggered in patients having a tendency of analgesic asthma.

Haemolytic anaemia, particularly in patients with underlying glucose 6-phosphate-dehydrogenase deficiency has been reported. Kounis syndrome has been reported, as has high anion gap metabolic acidosis due to pyroglutamic acidosis in patients with pre-disposing factors for glutathione depletion.

#### **Reporting suspected adverse effects**

Reporting suspected adverse reactions after registration 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 at [www.tga.gov.au/reporting-problems](http://www.tga.gov.au/reporting-problems).

### **4.9 OVERDOSE**

For information on the management of overdose, contact the Poisons Information Centre on 13 11 26 (Australia).

No specific information is available on overdosage with NORGESIC.

Elderly persons, small children, patients with liver disorders, chronic alcohol consumption or chronic malnutrition, as well as patients concomitantly treated with enzymes-inducing drugs are at an increased risk of intoxication, including fatal outcome. Overdosage with paracetamol if left untreated can result in severe, sometimes fatal liver damage and rarely, acute renal tubular necrosis.

#### **Symptoms and Signs**

**Orphenadrine overdose:** Known symptoms of overdose with orphenadrine include tachycardia, excitement, confusion and delirium leading to coma. Convulsions, dilated pupils and urinary retention may occur.

**Paracetamol overdose:** In adults, hepatotoxicity may occur after ingestion of a single dose of paracetamol 10 to 15 g; a dose of 25 g or more is potentially fatal.

Symptoms during the first two days of acute poisoning by paracetamol do not reflect the potential seriousness of the intoxication. Major manifestations of liver failure such as jaundice, hypoglycaemia and metabolic acidosis may take at least three days to develop.

Toxic symptoms include vomiting, abdominal pain, hypotension and sweating. Nausea, vomiting, anorexia, pallor and abdominal pain generally appear during the first 24 hours of overdosage with paracetamol. Overdosage with paracetamol may cause hepatic cytolysis which can lead to hepatocellular insufficiency, gastrointestinal bleeding, metabolic acidosis, encephalopathy, disseminated intravascular coagulation, coma and death. Increased levels of hepatic transaminases, lactate dehydrogenase and bilirubin with a reduction in prothrombin level can appear 12 to 48 hours after acute overdosage. Overdosage can also lead to pancreatitis acute renal failure and pancytopenia.

## **Treatment**

Despite lack of significant early symptoms, patients should be referred to hospital urgently for immediate medical attention.

Activated charcoal may reduce absorption of paracetamol if given within one hour after oral ingestion. In patients who are not fully conscious or have impaired gag reflex, consideration should be given to administering activated charcoal via a nasogastric tube, once the airway is protected.

Where paracetamol intoxication is suspected, intravenous administration of SH group donors such as acetylcysteine may be indicated. Although acetylcysteine is most effective if initiated within this period, it can still offer some degree of protection if given as late as 48 hours after ingestion; in this case it is taken for longer.

Further measures will depend on the severity, nature and course of clinical symptoms of intoxication and should follow standard intensive care protocols.

Convulsions and delirium respond to relatively large doses of diazepam, preferably by mouth. Adequate hydration of the patient is important.

## **5 PHARMACOLOGICAL PROPERTIES**

### **5.1 PHARMACODYNAMIC PROPERTIES**

#### **Mechanism of action**

Orphenadrine is a skeletal muscle relaxant. Paracetamol is an analgesic and antipyretic.

### **5.2 PHARMACOKINETIC PROPERTIES**

No data available

### **5.3 PRECLINICAL SAFETY DATA**

#### **Genotoxicity**

No data available.

#### **Carcinogenicity**

No data available.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 LIST OF EXCIPIENTS**

Microcrystalline cellulose, magnesium stearate, colloidal anhydrous silica, gelatin and pregelatinised maize starch.

### **6.2 INCOMPATIBILITIES**

Incompatibilities were either not assessed or not identified as part of the registration of this medicine.

### 6.3 SHELF LIFE

In Australia, information on the shelf life can be found on the public summary of the Australian Register of Therapeutic Goods (ARTG). The expiry date can be found on the packaging.

### 6.4 SPECIAL PRECAUTIONS FOR STORAGE

Store below 30°C.

### 6.5 NATURE AND CONTENTS OF CONTAINER

PP jars with PP child-resistant closure: 8 (sample pack), 24, 100, and 500s<sup>#</sup>

PVC/Al blisters: 8 (sample pack), 24, 100's.

# - not marketed.

### 6.6 SPECIAL PRECAUTIONS FOR DISPOSAL

In Australia, any unused medicine or waste material should be disposed of by taking to your local pharmacy.

### 6.7 PHYSICOCHEMICAL PROPERTIES

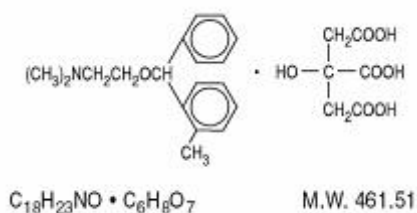
Orphenadrine citrate is white or almost white, crystalline powder. It is sparingly soluble in water, and slightly soluble in alcohol. Paracetamol is a white or almost white, crystalline powder that is sparingly soluble in water and freely soluble in alcohol.

#### Chemical structure

Orphenadrine citrate

Chemical name: (RS)-N,N-Dimethyl-2-[(2-methylphenyl)phenylmethoxy]ethanamine dihydrogen 2-hydroxypropane-1,2,3-tricarboxylate

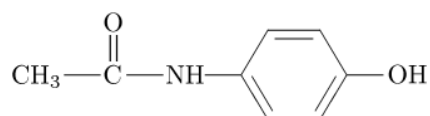
Chemical structure:



Paracetamol

Chemical name: N-(4-Hydroxyphenyl)acetamide

Chemical structure:



**CAS number**

Orphenadrine citrate: 4682-36-4

Paracetamol: 103-90-2

**7 MEDICINE SCHEDULE (POISONS STANDARD)**

Prescription only medicine - S4

**8 SPONSOR**

iNova Pharmaceuticals (Australia) Pty Limited  
Level 10, 12 Help Street  
Chatswood NSW 2067  
Australia

Tel: 1800 630 056

**9 DATE OF FIRST APPROVAL**

4 July 1991

**10 DATE OF REVISION**

24 June 2025

**SUMMARY TABLE OF CHANGES**

Section Changed	Summary of new information
4.3, 4.4, 4.5, 4.6, 4.8	Updates to paracetamol safety information