



## Renova® Plus

Paracetamol BP + Caffeine USP

### Description

**Renova® Plus** is a combination of Paracetamol and Caffeine. Paracetamol has analgesic and antipyretic properties with anti-inflammatory activity. Caffeine is an alkaloid, which is a theophylline-like xanthine derivative. By intermolecular association with paracetamol, caffeine increases the solubility and transmembrane permeation of paracetamol. In addition, caffeine increases the pain threshold and tolerance of pain. Caffeine has also an intrinsic power to raise vessel tone in the cranial area of the brain, which provides another benefit to treat migraine and headache.

### Pharmacokinetics

Paracetamol is rapidly and almost completely absorbed from the gastro-intestinal tract, and it is relatively uniformly distributed throughout most body fluids and exhibits variable protein binding. Excretion is almost exclusively renal, in the form of conjugated metabolites. Caffeine is absorbed readily after oral administration, maximal plasma concentrations are achieved within one hour and the plasma half-life is about 3.5 hours. 65 to 80% of administered caffeine is excreted in the urine as 1-methyluric acids and 1-methylxanthine.

### Composition

**Renova® Plus Tablet:** Each tablet contains Paracetamol BP 500 mg and Caffeine USP 65 mg.

### Indications

**Renova® Plus** is a mild analgesic and antipyretic formulated to give extra pain relief. The tablets are recommended for the treatment of most painful and febrile conditions, for example, headache, including migraine, backache, toothache, neuralgia, rheumatic pain and dysmenorrhoea, and relief of the symptoms of cold, influenza and sore throat.

### Dosage & administration

Adults: 1-2 tablets three to four times daily. Do not exceed 8 tablets in 24 hours.

Elderly: As for adults.

Children: Not recommended for children under 12 years.

### Contraindications

Hypersensitivity to paracetamol, caffeine or any of the other constituents.

### Side effects

Adverse effects of paracetamol are rare but hypersensitivity including skin rash may occur. There have been very rare reports of blood dyscrasias including thrombocytopenia and agranulocytosis but these were not necessarily causally related to paracetamol.

### Use in pregnancy & lactation

Epidemiological studies in human pregnancy have shown no ill effects due to paracetamol and caffeine used in the recommended dosage, but patients should follow the advice of their doctor regarding its use. Paracetamol and caffeine are excreted in breast milk but not in a clinically significant amount. Available published data do not contraindicate breast-feeding.

### Precautions

Care is advised in the administration of paracetamol to patients with severe renal or severe hepatic impairment. The hazard of overdose is greater in those with non-cirrhotic alcoholic liver disease.

### Drug interactions

The speed of absorption of paracetamol may be increased by metoclopramide or domperidone and absorption reduced by cholestyramine. 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.

### Overdosage

Immediate treatment is essential in the management of paracetamol overdose. Despite a lack of significant early symptoms, patients should be referred to hospital urgently for immediate medical attention.

### Storage

Store in a cool (Below 25° C temperature) and dry place protected from light.

### Packaging

**Renova® Plus Tablet:** Each carton contains 30X5 tablets in blister pack.

  
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