

**CTD MODULE 1**  
**ADMINISTRATIVE INFORMATION AND**  
**PRODUCT INFORMATION**

<b>Product Name :</b>	<b>RENPRESS TABLETS</b> <b>(Propranolol Hydrochloride BP 40 mg)</b>
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**1.5 Product Information: RENPRESS TABLETS**

**1.5.1 Prescribing information (Summary of products characteristics):**

**1. Name of the Medicinal Product: RENPRESS TABLETS**

**Strength:** Each uncoated tablet contains Propranolol Hydrochloride BP 40 mg

**Pharmaceutical form:** Tablet

**2. Qualitative and Quantitative composition:**

Component and quality standard (and grade, if applicable)	Function	Strength (label claim)			
		Each uncoated tablet contains Propranolol Hydrochloride BP 40 mg			
		Quantity in mg per tablet	%	Quantity in Kg Per 1,000,000 Tablets	%
<b>Contents of RENPRESS TABLETS</b>					
Propranolol Hydrochloride	Active	40.000	22.22	40.000	22.22
Maize starch (mixing)	Binder	46.050	25.58	46.050	25.58
Lactose anhydrous	Binder	40.000	22.22	40.000	22.22
Microcrystalline cellulose	Diluent	30.000	16.67	30.000	16.67
Maize starch (paste)	Binder	15.000	8.33	15.000	8.33
Sodium methyl paraben	Preservative	0.200	0.11	0.200	0.11
Sodium propyl paraben	Preservative	0.100	0.06	0.100	0.06
Erythrosine supra colour	Colouring agent	0.100	0.06	0.100	0.06
Aerosil	Disintegrant	1.000	0.56	1.000	0.56
Purified talc	Dusting agent	2.000	1.11	2.000	1.11
Sodium starch glycollate	Diluent	3.550	1.97	3.550	1.97
Magnesium stearate	Lubricant	2.000	1.11	2.000	1.11
Total	NA	180.00	100.00	180.00	100.00

**3. Pharmaceutical form:** Tablet

Round shaped light pink-coloured tablets, plain on one side and having a break line on the other side.

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**4. Clinical particular's:**

**4.1 Therapeutic indication:**

- a) the control of hypertension;
- b) the management of angina pectoris;
- c) long term management against re-infarction after recovery from acute myocardial infarction;
- d) the control of most forms of cardiac dysrhythmias;
- e) the prophylaxis of migraine;
- f) the management of essential tremor;
- g) relief of situational anxiety and generalised anxiety symptoms, particularly those of somatic type;
- h) prophylaxis of upper gastrointestinal bleeding in patients with portal hypertension and oesophageal varices;
- i) the adjunctive management of thyrotoxicosis and thyrotoxic crisis;
- j) management of hypertrophic obstructive cardiomyopathy;
- k) management of phaeochromocytoma peri-operatively (with an alpha- blocker).

**4.2 Posology and method of administration:**

**Posology**

**Adults**

**Hypertension:**

A starting dose of 80mg twice a day may be increased at weekly intervals according to response. The usual dose range is 160 to 320mg per day. With concurrent diuretic or other antihypertensive drugs a further reduction of blood pressure is obtained.

**Angina, migraine and essential tremor:**

A starting dose of 40mg two or three times daily may be increased by the same amount at weekly intervals according to response. An adequate response in migraine and essential tremor is usually seen in the range 80 to 160mg/day and in angina in the range 120 to 240mg/day.

**Situational and generalised anxiety:**

A dose of 40mg daily may provide short term relief of acute situational anxiety. Generalised anxiety, requiring longer term therapy, usually responds adequately to 40mg twice daily which, in individual cases, may be increased to 40mg three times daily. Treatment should be continued according to response. Patients should be reviewed after six to twelve months' treatment.

**Arrhythmias, anxiety tachycardia, hypertrophic obstructive cardiomyopathy and thyrotoxicosis:**

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A dosage range of 10 to 40mg three or four times a day usually achieves the required response.

Post myocardial infarction:

Treatment should start between days 5 and 21 after myocardial infarction, with an initial dose of 40mg four times a day for two or three days. In order to improve compliance, the total daily dosage may thereafter be given as 80mg twice a day.

Portal hypertension:

Dosage should be titrated to achieve approximately 25% reduction in resting heart rate. Dosage should begin with 40mg twice daily, increasing to 80mg twice daily depending on heart rate response. If necessary, the dose may be increased incrementally to a maximum of 160mg twice daily.

Phaeochromocytoma (used only with an alpha-receptor blocking drug):

Pre-operatively; 60mg daily for three days is recommended. Non-operable malignant cases, 30mg daily.

Elderly:

Evidence concerning the relationship between blood level and age is conflicting. Propranolol tablets should be used to treat the elderly with caution. It is suggested that treatment should start with the lowest dose. The optimum dose should be individually determined according to clinical response.

Paediatric population

Dysrhythmias, phaeochromocytoma, thyrotoxicosis: Dosage should be individually determined and the following is only a guide: Oral: 0.25 to 0.5mg/kg three or four times daily as required.

Migraine

Oral: Under the age of 12: 20 mg two or three times daily.

Over the age of 12: The adult dose.

Fallot's tetralogy

The value of propranolol in this condition is confined mainly to the relief of right-ventricular outflow tract shut-down. It is also useful for treatment of associated dysrhythmias and angina. Dosage should be individually determined and the following is only a guide:

Oral: Up to 1 mg/kg repeated three or four times daily as required.

Method of administration

For oral use.

The tablets should preferably be administered before meals.

**Method of Administration:** Oral.

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#### **4.3 Contraindication:**

Propranolol must not be used if there is a history of bronchial asthma or bronchospasm. The product label states the following warning: "Do not take Propranolol if you have a history of asthma or wheezing". A similar warning appears in the patient information leaflet. Bronchospasm can usually be reversed by beta2 agonist bronchodilators such as salbutamol. Large doses of the beta2 agonist bronchodilator may be required to overcome the beta blockade produced by propranolol and the dose should be titrated according to the clinical response; both intravenous and inhalational administration should be considered. The use of intravenous aminophylline and/or the use of ipratropium (given by nebuliser) may also be considered. Glucagon (1 to 2 mg given intravenously) has also been reported to produce a bronchodilator effect in asthmatic patients. Oxygen or artificial ventilation may be required in severe cases.

Propranolol, as with other beta-blockers must not be used in patients with any of the following conditions:

known hypersensitivity to the substance;  
bradycardia;  
cardiogenic shock;  
hypotension;  
metabolic acidosis;  
after prolonged fasting;  
severe peripheral arterial circulatory disturbances;  
second or third degree heart block;  
sick sinus syndrome;  
untreated phaeochromocytoma;  
uncontrolled heart failure or Prinzmetal's angina.

Propranolol must not be used in patients prone to hypoglycaemia, i.e., patients after prolonged fasting or patients with restricted counter-regulatory reserves. Patients with restricted counter regulatory reserves may have reduced autonomic and hormonal responses to hypoglycaemia which includes glycogenolysis, gluconeogenesis and /or impaired modulation of insulin secretion. Patients at risk for an inadequate response to hypoglycaemia includes individuals with malnutrition, prolonged fasting, starvation, chronic liver disease, diabetes and concomitant use of drugs which block the full response to catecholamines.

#### **4.4 Special warning and precaution for use:**

Propranolol as with other beta-blockers:

- Although contraindicated in uncontrolled heart failure, may be used in patients whose signs of heart failure have been controlled. Caution must be exercised in patients whose cardiac reserve is poor.

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- Should not be used in combination with calcium channel blockers with negative inotropic effects (e.g. verapamil, diltiazem), as it can lead to an exaggeration of these effects particularly in patients with impaired ventricular function and/or SA or AV conduction abnormalities. This may result in severe hypotension, bradycardia and cardiac failure. Neither the beta-blocker nor the calcium channel blocker should be administered intravenously within 48 hours of discontinuing the other.
  - Although contraindicated in severe peripheral arterial circulatory disturbances, may also aggravate less severe peripheral arterial circulatory disturbances.
  - Due to its negative effect on conduction time, caution must be exercised if propranolol is given to patients with first degree heart block.
  - Propranolol may block/modify the signs and symptoms of the hypoglycaemia (especially tachycardia). Propranolol occasionally causes hypoglycaemia, even in non-diabetic patients, e.g. neonates, infants, children, elderly patients, patients on haemodialysis or patients suffering from chronic liver disease and patients suffering from overdose. Severe hypoglycaemia associated with propranolol has rarely presented with seizures and/or coma in isolated patients. Caution must be exercised in the concurrent use of propranolol and hypoglycaemic therapy in diabetic patients. Propranolol may prolong the hypoglycaemic response to insulin.
  - Propranolol may mask the signs of thyrotoxicosis.
  - Should not be used in untreated phaeochromocytoma. However, in patients with phaeochromocytoma an alpha-blocker may be given concomitantly.
  - Will reduce heart rate as a result of its pharmacological action. In the rare instances when a treated patient develops symptoms which may be attributable to a slow heart rate, the dose may be reduced.
- May cause a more severe reaction to a variety of allergens, when given to patients with a history of anaphylactic reaction to such allergens. Such patients may be unresponsive to the usual doses of adrenaline used to treat the allergic reactions.

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Abrupt withdrawal of beta-blockers is to be avoided. The dosage should be withdrawn gradually over a period of 7 to 14 days. Patients should be followed during withdrawal especially those with ischaemic heart disease.

When a patient is scheduled for surgery and a decision is made to discontinue beta-blocker therapy, this should be done at least 24 hours prior to the procedure. The risk/benefit of stopping beta blockade should be made for each patient.

Since the half-life may be increased in patients with significant hepatic or renal impairment, caution must be exercised when starting treatment and selecting the initial dose.

Propranolol should be used with caution in patients with decompensated cirrhosis.

In patients with portal hypertension, liver function may deteriorate and hepatic encephalopathy may develop. There have been reports suggesting that treatment with propranolol may increase the risk of developing hepatic encephalopathy.

Interference with laboratory tests:

Propranolol has been reported to interfere with the estimation of serum bilirubin by the diazo method and with the determination of catecholamines by methods using fluorescence.

Lactose

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

Carmoisine (E122)

Propranolol 10mg tablets contain carmoisine (E122) which may cause allergic reactions.

**4.5 Interactions with other medicinal products and other forms of interactions:**

Propranolol modifies the tachycardia of hypoglycaemia. Caution must be exercised in the concurrent use of propranolol and hypoglycaemic therapy in diabetic patients. Propranolol may prolong the hypoglycaemic response to insulin.

Simultaneous administration of rizatriptan and propranolol can cause an increased rizatriptan AUC and C<sub>max</sub> by approximately 70-80%. The increased rizatriptan exposure is presumed to be caused by inhibition of first-passage metabolism of rizatriptan through inhibition of

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monoamine oxidase -A. If both drugs are to be used, a rizatriptan dose of 5mg has been recommended.

Class I anti-arrhythmic drugs (e.g. disopyramide) and amiodarone may have potentiating effects on arterial conduction time and induce negative inotropic effect.

Digitalis glycosides used in association with beta-adrenoceptor blockers may increase AV conduction time.

Combined use of beta-blockers and calcium channel blockers with negative inotropic effects (e.g. verapamil, diltiazem) can lead to an exaggeration of these effects, particularly in patients with impaired ventricular function and/or SA or AV conduction abnormalities. This may result in severe hypotension, bradycardia and cardiac failure. Neither the beta-blocker nor the calcium channel blocker should be administered intravenously within 48 hours of discontinuing the other.

Concomitant therapy with dihydropyridine calcium channel blockers, e.g., nifedipine, may increase the risk of hypotension, and cardiac failure may occur in patients with latent cardiac insufficiency.

Concomitant use of sympathomimetic agents e.g., adrenaline, may counteract the effect of beta-blockers. Caution must be exercised in the parenteral administration of preparations containing adrenaline to patients taking beta-blockers as, in rare cases, vasoconstriction, hypertension and bradycardia may result.

Administration of propranolol during infusion of lidocaine may increase the plasma concentration of lidocaine by approximately 30%. Patients already receiving propranolol tend to have higher lidocaine levels than controls. The combination should be avoided.

Concomitant use of cimetidine or hydralazine will increase plasma levels of propranolol, and concomitant use of alcohol may increase the plasma levels of propranolol.

Beta-blockers may exacerbate the rebound hypertension which can follow the withdrawal of clonidine. If the two drugs are co-administered, the beta-blocker should be withdrawn several days before discontinuing clonidine. If replacing clonidine with beta-blocker therapy the introduction of the beta-blocker should be delayed for several days after clonidine administration has stopped.

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Caution must be exercised if ergotamine, dihydroergotamine or related compounds are given in combination with propranolol since vasospastic reactions have been reported in a few patients.

Concomitant use of prostaglandin synthetase inhibiting drugs e.g., ibuprofen and indometacin, may decrease the hypotensive effects of propranolol.

Concomitant administration of propranolol and chlorpromazine may result in an increase in plasma levels of both drugs. This may lead to an enhanced antipsychotic effect for chlorpromazine and an increased antihypertensive effect for propranolol.

Caution must be exercised when using anaesthetic agents with propranolol. The anaesthetist should be informed and the choice of anaesthetic should be the agent with as little negative inotropic activity as possible.

Use of beta-blockers with anaesthetic drugs may result in attenuation of the reflex tachycardia and increase the risk of hypotension. Anaesthetic agents causing myocardial depression are best avoided.

Pharmacokinetic studies have shown that the following agents may interact with propranolol due to effects on enzyme systems in the liver which metabolise propranolol and these agents: quinidine, propafenone, rifampicin, theophylline, warfarin, thioridazine and dihydropyridine calcium channel blockers such as nifedipine, nisoldipine, nicardipine, isradipine and lacidipine.

Owing to the fact that blood concentrations of either agent may be affected, dosage adjustments may be needed according to clinical judgement (see also the interaction above concerning the concomitant therapy with dihydropyridine calcium channel blockers).

**Additional information on special populations:**

Not Applicable

**Pediatric population:**

Not Applicable

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**4.6 Fertility, pregnancy and lactation:**

**Pregnancy**

As with all drugs, propranolol should not be given during pregnancy unless its use is essential. There is no evidence of teratogenicity with propranolol. However beta-blockers reduce placental perfusion, which may result in intra-uterine foetal death, immature and premature deliveries. In addition, adverse effects (especially hypoglycaemia and bradycardia in the neonate and bradycardia in the foetus) may occur. There is an increased risk of cardiac and pulmonary complications in the neonate in the post-natal period.

**Breast-feeding**

Most beta-blockers, particularly lipophilic compounds, will pass into breast milk although to a variable extent. Breast feeding is therefore not recommended following administration of these compounds.

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

Propranolol has no or negligible influence on the ability to drive and use machines. However it should be taken into account that occasionally dizziness or fatigue may occur.

**4.8 Undesirable effects:**

Propranolol is usually well tolerated. In clinical studies the undesired events reported are usually attributable to the pharmacological actions of propranolol.

The following undesired events, listed by body system, have been reported. The following definitions of frequencies are used:

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 ( $< 1/10,000$ );

Frequency not known (cannot be estimated from the available data).

<b>System Organ class</b>	<b>Frequency</b>	<b>Undesirable Effect</b>
Blood and lymphatic system disorders	Rare	Thrombocytopenia
Metabolic and nutritional disorders	Not known	Hypoglycaemia in neonates, infants, children, elderly patients, patients on haemodialysis, patients on concomitant antidiabetic therapy, patients with prolonged fasting and patients with chronic liver

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		disease has been reported
Psychiatric disorders	Common	Sleep disturbances, nightmares
Nervous system disorders	Rare	Hallucinations, psychoses, mood changes, confusion, memory loss, paraesthesia
	Very rare	Isolated reports of myasthenia gravis like syndrome or exacerbation of myasthenia gravis have been reported
	Frequency not known	seizure linked to hypoglycaemia
Eye disorders	Rare	Dry eyes, visual disturbances
Cardiac disorders	Common	Bradycardia
	Rare	Heart failure deterioration, precipitation of heart block, postural hypotension, which may be associated with syncope
Vascular disorders	Common	Cold extremities, Raynaud's phenomenon
	Rare	Exacerbation of Intermittent claudication
Respiratory, thoracic and mediastinal disorders	Rare	Bronchospasm may occur in patients with bronchial asthma or a history of asthmatic complaints, sometimes with fatal outcome
Gastrointestinal disorders	Uncommon	Gastrointestinal disturbance, such as nausea, vomiting, diarrhoea
Skin and subcutaneous tissue disorders	Rare	Purpura, alopecia, psoriasiform skin reactions, exacerbation of psoriasis, skin rashes
General disorders and administration site conditions	Common	Fatigue and/or lassitude (often transient)
	Rare	Dizziness
Investigations	Very rare	An increase in ANA (Antinuclear Antibodies) has been observed, however the clinical relevance of this is not clear

Discontinuance of the drug should be considered if, according to clinical judgement, the well-being of the patient is adversely affected by any of the above reactions. Cessation of therapy with a beta-blocker should be gradual (see section 4.4). In the rare event of intolerance

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manifested as bradycardia and hypotension, the drug should be withdrawn and, if necessary, treatment for overdose instituted.

#### **4.9 Overdose and Treatment:**

Propranolol is known to cause severe toxicity when used in overdose. Patients should be informed of the signs of overdose and advised to seek urgent medical assistance if an overdose of propranolol has been taken.

Clinical features:

Cardiac:

Bradycardia, hypotension, pulmonary oedema, syncope and cardiogenic shock may develop. QRS complex prolongation, ventricular tachycardia, first to third degree AV block, ventricular fibrillation or asystole may also occur. Development of cardiovascular complications is more likely if other cardioactive drugs, especially calcium channel blockers, digoxin cyclic antidepressants or neuroleptics have also been ingested. Older patients and those with underlying ischaemic heart disease are at risk of developing severe cardiovascular compromise.

CNS:

Drowsiness, confusion, seizures, hallucinations, dilated pupils and in severe cases coma may occur. Neurological signs such as coma or absence of pupil reactivity are unreliable prognostic indicators during resuscitation.

Other features:

Bronchospasm, hyperkalaemia and occasionally CNS-mediated respiratory depression may occur.

Management

In cases of overdose or extreme falls in the heart rate or blood pressure, treatment with propranolol must be stopped. Management should include general symptomatic and supportive measures including a clear airway and monitoring of vital signs until stable. In symptomatic patients, or patients with an abnormal ECG, early discussion with critical care should be considered.

Consult national clinical guidance for further information on the management of overdose.

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**5. Pharmacological Properties:**

**5.1 Pharmacodynamic properties:**

Propranolol is a competitive antagonist at both beta1- and beta2-adrenoceptors. It has no agonist activity at the beta adrenoceptor, but has membrane stabilising activity at concentrations exceeding 1-3mg/litre, though such concentrations are rarely achieved during oral therapy. Competitive beta-blockade has been demonstrated in man by a parallel shift to the right in the dose-heart rate response curve to beta-agonists such as isoprenaline.

Propranolol as with other beta-blockers, has negative inotropic effects, and is therefore contraindicated in uncontrolled heart failure.

Propranolol is a racemic mixture and the active form is the S (-) isomer of propranolol. With the exception of inhibition of the conversion of thyroxine to triiodothyronine, it is unlikely that any additional ancillary properties possessed by R (+) propranolol, in comparison with the racemic mixture, will give rise to different therapeutic effects.

Propranolol is effective and well tolerated in most ethnic populations, although the response may be less in black patients.

**5.2 Pharmacokinetic properties:**

Following intravenous administration the plasma half-life of propranolol is about 2 hours and the ratio of metabolites to parent drug in the blood is lower than after oral administration. In particular 4-hydroxypropranolol is not present after intravenous administration.

Propranolol is completely absorbed after oral administration and peak plasma concentrations occur 1 to 2 hours after dosing in fasting patients. The liver removes up to 90% of an oral dose with an elimination half-life of 3 to 6 hours. Propranolol is widely and rapidly distributed throughout the body with highest levels occurring in the lungs, liver, kidney, brain and heart. Propranolol is highly protein bound (80 to 95%).

**5.3 Preclinical safety data:**

Propranolol is a drug on which extensive clinical experience has been obtained. All relevant information for the prescriber is provided elsewhere in the Summary of Product Characteristics.

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**6. Pharmaceutical Particulars:**

**6.1 List of excipients**

Renpress Tablets contain the following excipients:

Maize starch, Lactose anhydrous, Microcrystalline cellulose, Sodium methyl paraben, Sodium propyl paraben, Erythrosine supra colour, Aerosil, Purified talc, Sodium starch glycollate, Magnesium stearate.

**6.2 Incompatibilities**

None known

**6.3 Shelf life**

24Months

**6.4 Special precaution for storage**

Store in cool & dry place, below 30°C.

**6.5 Nature and contents of container**

10 tablets are packed in Aluminium/PVC blister; such 10 blisters are packed in a unit carton along with literature insert.

**6.6 Special precautions for disposal**

No special precaution.

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**7. MARKETING AUTHORISATION HOLDER AND MANUFACTURING SITE  
ADDRESSES:**

**Marketing Authorization Holder:**

**Rene Industries Ltd**

Address : PO Box 6034, Plot No.680, Kamuli, Kireka, Kampala, Uganda.

**Manufactured by:**

**Rene Industries Ltd**

Address : PO Box 6034, Plot No.680, Kamuli, Kireka, Kampala, Uganda.

**8. MARKETING AUTHORISATION NUMBER:**

Not Applicable

**9. DATE OF FIRST REGISTRATION/RENEWAL OF THE REGISTRATION:**

Not Applicable

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

Not Applicable

**11. DOSIMETRY (IF APPLICABLE):**

Not Applicable

**12. INSTRUCTIONS FOR PREPARATION OF RADIOPHARMACEUTICALS (IF  
APPLICABLE):**

Not Applicable