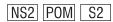
For the use only of a Registered Medical Practitioner or a Hospital or a Laboratory



Nebivolo Tablets 2,5/5/10 mg

Nebimac 2.5/5/10mg

COMPOSITION

Each Tablet contains
Nebivolol Hydrochloride equivalent
Nebivolol2.5/5/10mg

Category of distribution: Prescription Preparation (PP) Zimbabwe Registration no: To be allotted Pharmacological classification: C07AB12 ATC Code: Anti-hypertensive agent.

This product contains Lactose

DESCRIPTION

Nebivolol is a beta-adrenergic blocking agent. It is chemically described as (1RS, 1'RS)-1, 1'- [(2RS, 2'SR)-bis (6-fluoro-3, 4-dihydro-2H-1-benzopyran-2-yl)]-2,2'-iminodiethanol hydrochloride. Its empirical formula is C₂₂H₂₅F₂NO₄HCl, its molecular weight is 441.90.

PHARMACOLOGICAL CLASSIFICATION

Beta-adrenergic block

PHARMACOLOGICAL ACTION:

Pharmacodynamics
Pharmacotherapeutic group: Beta-blocking agents, selective, ATC code: C07AB12
Nebivolol is a racemate of two enantiomers, SRRR-Nebivolol (d-Nebivolol) and RSSS-Nebivolol (I-Nebivolol). It combines two pharmacological activities:

It is a competitive and selective beta-receptor antagonist: this effect is attributed to the SRRRenatiomer (d-enantiomer).

It has mild vasodilating properties, due to an interaction with the L-arginine/nitric oxide pathway.

Single and repeated doses of Nebivolol reduce heart rate and blood pressure at rest and

during exercise, both in normotensive subjects and in hypertensive patients. The antihypertensive effect is maintained during chronic treatment. At therapeutic doses, Nebivolol is devoid of alpha-adrenergic antagonism. During acute and chronic treatment with Nebivolol in hypertensive patients, systemic vascular resistance is decreased. Despite heart rate reduction, reduction in cardiac output during rest and exercise may be limited due to an increase in stroke volume. The clinical relevance of these haemodynamic differences as compared to other beta-, receptor antagonists has not

these haemodynamic differences as compared to other beta-, receptor antagonists has not been fully established. In hypertensive patients, Nebivolol increases the NO-mediated vascular response to acetylcholine (ACh) which is reduced in patients with endothelial dysfunction. In a mortality—morbidity, placebo-controlled trial performed in 2128 patients ≥ 70 years (median age 75.2 years) with stable chronic heart failure with or without impaired left ventricular ejection fraction (mean LVEF; 36 ± 12.3%, with the following distribution: LVEF less than 35% in 56% of patients, LVEF between 35% and 45% in 25% of patients and LVEF greater than 45% in 19% of patients, IvEF between 35% and 45% in 25% of patients and LVEF greater than 45% in 19% of patients followed for a mean time of 20 months, Nebivolol, on top of standard therapy, significantly prolonged the time to occurrence of deaths or hospitalisations for cardiovascular reasons (primary end-point for efficacy) with a relative six reduction of 14% (absolute reduction: 4.2%). This risk reduction developed after 6 months of treatment and was maintained for all treatment duration (median duration: 18 months). The effect of Nebivolol was independent from age, gender, or left ventricular ejection fraction of the population on study. The benefit on all cause mortality did not reach statistical significance in comparison to placebo (absolute reduction: 2.3%). A decrease in sudden death was observed in Nebivolol treated patients (4.1% vs.6.6%, relative reduction of 38%). in Nebivolol treated patients (4.1% vs 6.6%, relative reduction of 38%).

In Nebivolol treated patients (4.1% vs.b.6%, relative reduction of 36%). In vitro and in vivo experiments in animals showed that Nebivolol has no intrinsic sympathicomimetic activity. In vitro and in vivo experiments in animals showed that at pharmacological doses Nebivolol has no membrane stabilising action.

In healthy volunteers, Nebivolol has no significant effect on maximal exercise capacity or

endurance

Nebivolol is a lipophilic, cardioselective beta-blocker without ISA or membrane stabilising properties (I-enantiomer). It also has a nitric oxide mediated vasodilatory effect (denantiomer).

Absorption

Both Nebivolol enantiomers are rapidly absorbed after oral administration. The absorption of Nebivolol is not affected by food; Nebivolol can be given with or without meals.

Distribution In plasma, both Nebivolol enantiomers are predominantly bound to albumin. Plasma protein

binding is 98.1% for SRRR-Nebivolol and 97.9% for RSSS-Nebivolol.

Biotransformation

Nebivolol is extensively metabolised, partly to active hydroxy-metabolites. Nebivolol is Nebivolol is extensively metabolised, partly to active hydroxy-metabolites. Nebivolol is metabolised via alicyclic and aromatic hydroxylation, N-dealkylation and glucuronidation; in addition, glucuronides of the hydroxy-metabolites are formed. The metabolism of Nebivolol by aromatic hydroxylation is subject to the CYP2D6 dependent genetic oxidative polymorphism. The oral bioavailability of Nebivolol averages 12% in fast metabolisers and is virtually complete in slow metabolisers. At steady state and at the same dose level, the peak plasma concentration of unchanged Nebivolol is about 23 times higher in poor metabolisers than in extensive metabolisers. When unchanged drug plus active metabolises are considered, the difference in peak plasma concentrations is 1.3 to 1.4 fold. Because of the variation in rates of metabolism, the dose of Nebivolol should always be adjusted to the individual requirements of the patient; poor metabolisers therefore may require lower doses.

In fast metabolisers, elimination half-lives of the Nebivolol enantiomers average 10 hours. In slow metabolisers, they are 3-5 times longer. In fast metabolisers, plasma levels of the RSSS-enantiomer are slightly higher than for the SRRR-enantiomer. In slow metabolisers ship higher than for the SRRR-enantiomer. In slow metabolisers scales, and are about twice as long in slow metabolisers. Steady-state plasma levels in most subjects (fast metabolisers) are reached within 24 hours for Nebivolol and within a few days for the hydroxy-metabolites.

Plasma concentrations are dose-proportional between 1 and 30 mg. The pharmacokinetics of Nebivolol are not affected by age.

Nebivolol are not affected by age.

Netrovior are not an eccess by e.g.c. Elimination One week after administration, 38% of the dose is excreted in the urine and 48% in the faeces. Urinary excretion of unchanged Nebivolol is less than 0.5% of the dose.

INDICATIONS AND USAGE

Hypertension: Nebivolol is indicated for the treatment of essential hypertension.

Chronic heart failure (CHF): Treatment of stable mild and moderate chronic heart failure in addition to standard therapies in elderly patients ≥ 70 years.

DOSAGE

The dose is one tablet (5 mg) daily, preferably at the same time of the day.

The blood pressure lowering effect becomes evident after 1-2 weeks of treatment. Occasionally, the optimal effect is reached only after 4 weeks.

Combination with other antihypertensive agents: Beta-blockers can be used alone or concomitantly with other antihypertensive agents. To date, an additional antihypertensive effect has been observed only when Nebivolol 5 mg is combined with hydrochlorothiazide 12.5-25 ma.

Patients with renal insufficiency: In patients with renal insufficiency, the recommended

starting dose is 2.5 mg dally. If needed, the daily dose may be increased to 5 mg.

**Patients with hepatic insufficiency: Data in patients with hepatic insufficiency or impaired liver function are limited. Therefore the use of Nebivolol in these patients is contra-indicated. **Elderly: In patients over 65 years, the recommended starting dose is 2.5 mg daily. If needed,

the daily dose may be increased to 5 mg. However, in view of the limited experience in patients above 75 years, caution must be exercised and these patients monitored closely. Children and adolescents: The safety and efficacy of Nebivolol in children aged less than 18 years have not been established. Therefore, use in children and adolescents is not

recommended.

Chronic heart failure (CHF):

The treatment of stable chronic heart failure has to be initiated with a gradual uptitration of

dosage until the optimal individual maintenance dose is reached.

Patients should have stable chronic heart failure without acute failure during the past six weeks. It is recommended that the treating physician should be experienced in the management of chronic heart failure.

management or chronic near trailure.

For those patients receiving cardiovascular drug therapy including diuretics and/or digoxin and/or ACE inhibitors and/or angiotensin II antagonists, dosing of these drugs should be stabilised during the past two weeks prior to initiation of Nebivold treatment. The initial uptitration should be done according to the following steps at 1-2 weekly intervals

based on patient tolerability:

1.25 mg Nebivolol, to be increased to 2.5 mg Nebivolol once daily, then to 5 mg once daily and

The naximum recommended does is 10 mg Nebivolol once daily.

The maximum recommended does is 10 mg Nebivolol once daily.

Initiation of therapy and every dose increase should be done under the supervision of an experienced physician over a period of at least 2 hours to ensure that the clinical status

(especially as regards blood pressure, heart rate, conduction disturbances, signs of worsening of heart failure) remains stable.

Occurrence of adverse events may prevent all patients being treated with the maximum recommended dose, If necessary, the dose reached can also be decreased step-by-step and restorational or personnel. reintroduced as appropriate.

During the titration phase, in case of worsening of the heart failure or intolerance, it is Duning the utraining prace, in case of workshing of me heart raturate of intolerance, it is recommended first to reduce the dose of Nebivolol, or to stop it immediately if necessary (in case of severe hypotension, worsening of heart failure with acute pulmonary oedema, cardiogenic shock, symptomatic bradycardia or AV block). Treatment of stable chronic heart failure with Nebivolol is generally a long-term treatment. The treatment with Nebivolol is not recommended to be stopped abruptly since this might lead

The treatment with rebrivoting in the comminate of the suppled abrighy since this high treat to a transitory worsening of heart failure. If discontinuation is necessary, the dose should be gradually decreased divided into halves weekly.

Patients with renal insufficiency: No dose adjustment is required in mild to moderate renal insufficiency since uptitration to the maximum tolerated dose is individually adjusted. There is no experience in patients with severe renal insufficiency (serum creatinine 2:50µmol/L). Therefore, the use of Nebivololi in these patients is not recommended.

Patients with hepatic insufficiency: Data in patients with hepatic insufficiency are limited. Therefore the use of Nebivolol in these patients is contraindicated.

Elderly: No dose adjustment is required since uptitration to the maximum tolerated dose is

individually adjusted.

Children and adolescents: The safety and efficacy of Nebivolol in children aged less than 18 years have not been established. Therefore, use in children and adolescents is not recommended

Method of administration
For oral administration
The tablet or its parts should be swallowed with a sufficient amount of fluid (e.g. one glass of water). The tablet can be taken with or without food.

CONTRAINDICATIONS

- Hypersensitivity to the active substance or to any of the excipients Liver insufficiency or liver function impairment.
- Acute heart failure, cardiogenic shock or episodes of heart failure decompensation Acute near nature, cardiogenic shock of episodes of neart failure of requiring t.v. inotropic therapy.

 In addition, as with other beta-blocking agents, Nebivolol is contraindicated in:
 sick sinus syndrome, including sino-atrial block
 second and third degree heart block (without a pacemaker).

- history of bronchospasm and bronchial asthma.
- untreated phaeochromocytoma.
- metabolic acidosis. bradycardia (heart rate < 60 bpm prior to start of therapy). hypotension (systolic blood pressure < 90 mmHg). severe peripheral circulatory disturbances
- combinations with floctafenine and sultopride

Adverse events are listed separately for hypertension and CHF because of differences in the background diseases.

Hypertension

Infpertension
Immune system disorders
Not known: angioneurotic oedema, hypersensitivity
Psychiatric disorders
Uncommon: nightmares, depression
Nervous system disorders

Common: headache, dizziness, paraesthesia

Very rare: syncope
Eye disorders
Uncommon: impaired vision

Cardiac disorders

Uncommon: bradycardia, heart failure, slowed AV conduction/AV-block

Vascular disorders
Uncommon: hypotension, (increase of) intermittent daudication
Respiratory, thoracic and mediastinal disorders

Common: dyspnoea Uncommon: bronchospasm

Castrointestinal disorders
Common: constipation, nausea, diarrhea
Uncommon: dyspepsia, flatulence, vomiting
Skin and subcutaneous tissue disorders

Uncommon: pruritus, rash erythematous Very rare: psoriasis aggravated

Not known: urticaria

Reproductive system and breast disorders
Uncommon: impotence
General disorders and administration site conditions

Common: tiredness, oedema
The following adverse reactions have also been reported with some beta-adrenergic

The following adverse reactions have also been reported with some beta-adrenergic antagonists: hallucinations, psychoses, confusion, cold/cyanotic extremities, Raynaud phenomenon, dry eyes, and oculo-mucocutaneous toxicity of the practolol-type.

Chronic heart failure
Data on adverse reactions in CHF patients are available from one placebo-controlled clinical trial involving 1067 patients taking Nebivolol and 1061 patients taking placebo. In this study, a total of 449 Nebivolol patients (42.1%) reported at least possibly causally-related adverse reactions compared to 334 placebo patients (31.5%). The most commonly reported adverse reactions in Nebivolol patients were bradycardia and dizziness, both occurring in approximately 11% of patients. The corresponding frequencies among placebo patients were approximately 2% and 7%, respectively.

The following incidences were reported for adverse reactions (at least possibly drug related) which are considered specifically relevant in the treatment of chronic heart failure:

- Aggravation of cardiac failure occurred in 5.8 % of Nebivolol patients compared to 5.2% of placebo patients.

- placebo patients.
- Postural hypotension was reported in 2.1% of Nebivolol patients compared to 1.0% of
- Drug intolerance occurred in 1.6% of Nebivolol patients compared to 0.8% of placebo
- patients.
 First degree atrio-ventricular block occurred in 1.4% of Nebivolol patients compared to 0.9%
- Oedema of the lower limb were reported by 1.0% of Nebivolol patients compared to 0.2% of placebo patients

DRUG INTERACTIONS

PRUG INTERACTIONS
Pharmacodynamic interactions:
The following interactions apply to beta-adrenergic antagonists in general.
Combinations contra-indicated:
Floctaferine (NSAID): beta blockers may impede the compensatory cardiovascular reactions associated with hypotension or shock that may be induced by floctafenine.
Sultopride (antipsychotic): bisoprolol should not be concomitantly administered with sultopride since there is an increase risk of ventricular arrhythmia.
Combinations not recommended:
Class I antiarrhythmics (quinidine, hydroquinidine, cibenzoline, flecainide, disopyramide, fldocaine, mexiletine, propalenone): effect on atrio-ventricular conduction time may be potentiated and negative inotropic effect increased.
Calcium channel antagonists of vereatomil/dilitiazem type: negative influence on contractility

potentiated and negative intorropic effect increased.

Calcium channel antagonists of verapamil/dilitiazem type: negative influence on contractility and atrio-ventricular conduction. Intravenous administration of verapamil in patients with \(\mathbb{L}\) blocker treatment may lead to profound hypotension and atrio-ventricular block.

Centrally-acting antihypertensives (clonidine, guanfacin, moxonidine, methyldopa, rilmenidine): concomitant use of centrally acting antihypertensive drugs may worsen heart failure by a decrease in the central sympathetic tonus (reduction of heart rate and cardiac labels). About the litheropic periodicular tonus (reduction of heart rate and cardiac labels). output, vasodilatation). Abrupt withdrawal, particularly if prior to beta-blocker discontinuation, may increase risk of 'rebound hypertension'.

Combinations to be used with caution

Class III antiarrhythmic drugs (amiodarone): effect on atrio-ventricular conduction time may

Class in aniuarinyiuminic artigs (amilioaerone), entect on aurio-ventricular conduction time may be potentiated.

Anaesthetics - volatile halogenated: concomitant use of beta-adrenergic antagonists and anaesthetics may attenuate reflex tachycardia and increase the risk of hypotension. As a general rule, avoid sudden withdrawal of beta-blocker treatment. The anaesthesist should be

general rule, avoid sudden withdrawal of beta-blocker treatment. The anaesthesist should be informed when the patient is receiving Nebivolol. Insulin and oral antidiabetic drugs: although Nebivolol does not affect glucose level, concomitant use may mask certain symptoms of hypoglycaemia (palpitations, tachycardia). Baclofen (antispastic agent), amifostine (antineoplastic adjunct): concomitant use with antihypertensives is likely to increase the fall in blood pressure, therefore the dosage of the antihypertensive medication should be adjusted accordingly. Melloquine (antimalarian drug): Theoretically co-administration with β (beta)-adrenergic blocking agents might contribute to a prolongation of the QTc interval. Combinations to be considered Digitalis glycosides: concomitant use may increase atrio-ventricular conduction time. Clinical trials with Nebivolol have not shown any clinical evidence of an interaction. Nebivolol does not influence the kinetics of digoxin. Calcium antagonists of the dihydropyridine type (amlodopine, felodipine, lacidipine, nifedipine, nicardipine, nitrendipine): concomitant use may increase the risk of

Calcium antagonists of the dihydropyridine type (amlodopine, felodipine, lacidipine, nifedipine, nicardipine, nimodipine, nitrendipine): concomitant use may increase the risk of hypotension and an increase in the risk of a further deterioration of the ventricular pump function in patients with heart failure cannot be excluded.

Antipsychotics, antidepressants (tricyclics, barbiturates and phenothiazines): concomitant use may enhance the hypotensive effect of the beta-blockers (additive effect).

Non steroidal anti-inflammatory drugs (NSAID): no effect on the blood pressure lowering effect of belovdol. Please note that small daily antithrombotic doses of acetylsalicylic acid (e.g., 50 or 100 mg) can be used safely with Nebivolol.

Sympathicomimetic agents: concomitant use may counteract the effect of beta-adrenergic antagonists. Beta-adrenergic agents may lead to unopposed alpha-adrenergic activity of sympathicomimetic agents with both alpha- and betaadrenergic effects (risk of hypertension, severe bradycardia and heart block).

Pharmacokinetic interactions:

Pharmacokinetic interactions:
As Nebivolol metabolism involves the CYP2D6 isoenzyme, co-administration with substances inhibiting this enzyme, especially paroxetine, fluoxetine, thioridazine, quinidine, terbinafine, bupropion, chloroquine and levomepromazine may lead to increased plasma levels of Nebivolol associated with an increased risk of excessive bradycardia and adverse

events.

Co-administration of cimetidine increased the plasma levels of Nebivolol, without changing the clinical effect. Co-administration of ranitidine did not affect the pharmacokinetics of Nebivolol. Provided Nebivolol is taken with a meal, and an antacid between meals, the two

Nebrook. Provide Nebrook is taken with a mea, and an analyd between meas, the wo treatments can be co-prescribed.

Combining Nebrook with nicardipine slightly increased the plasma levels of both drugs, without changing the clinical effect. Co-administration of alcohol, furosemide or hydrochlorothiazide did not affect the pharmacokinetics of Nebrook. Nebrook does not affect the pharmacokinetics and pharmacodynamics of warfarin.

WARNINGS & PRECAUTIONS

The following warnings and precautions apply to beta-adrenergic antagonists in general.

Anaestnessa
Continuation of beta blockade reduces the risk of arrhythmias during induction and intubation. If beta blockade is interrupted in preparation for surgery, the beta-adrenergic antagonist should be discontinued at least 24 hours beforehand.

should be discontinued at least 24 hours beforehand.

Caution should be observed with certain anaesthetics that cause myocardial depression. The patient can be protected against vagal reactions by intravenous administration of atropine.

Cardiovascular

In general, beta-adrenergic antagonists should not be used in patients with untreated congestive heart failure (CHF), unless their condition has been stabilised.

In patients with ischaemic heart disease, treatment with a beta-adrenergic antagonist should be discontinued gradually, i.e. over 1-2 weeks. If necessary replacement therapy should be initiated at the same time, to prevent exacerbation of angina pectoris.

Beta-adrenergic antagonists may induce bradycardia: if the pulse rate drops below 50-55 bpm at rest and/or the patient experiences symptoms that are suggestive of bradycardia, the dosage should be reduced.

Beta-adrenergic antagonists should be used with caution:

In patients with peripheral circulatory disorders (Raynaud's disease or syndrome,

- in patients with peripheral circulatory disorders (Raynaud's disease or syndrome, intermittent claudication), as aggravation of these disorders may occur; in patients with first degree heart block, because of the negative effect of beta-blockers
- on conduction time:
- on conduction time;

 in patients with Prinzmetal's angina due to unopposed alpha-receptor mediated coronary artery vasoconstriction: betaadrenergic antagonists may increase the number and duration of anginal attacks.

 Combination of Nebivold with calcium channel antagonists of the verapamil and dilitiazem type, with Class I antiarrhythmic drugs, and with centrally acting antihypertensive drugs is

generally not recommended.

Metabolic/Endocrinological

Nebivolol does not affect glucose levels in diabetic patients. Care should be taken in diabetic patients however, as Nebivolol may mask certain symptoms of hypoglycaemia (tachycardia,

Beta-adrenergic blocking agents may mask tachycardic symptoms in hyperthyroidism. Abrupt withdrawal may intensify symptoms.

Respiratory
In patients with chronic obstructive pulmonary disorders, beta-adrenergic antagonists should be used with caution as airway constriction may be aggravated.

Patients with a history of psoriasis should take beta-adrenergic antagonists only after careful

Beta-adrenergic antagonists may increase the sensitivity to allergens and the severity of anaphylactic reactions.

anaphylactic reactions.

Beta-blockers may cause decreased lacrimation.

The initiation of chronic heart failure treatment with Nebivolol necessitates regular monitoring. Treatment discontinuation should not be done abruptly unless clearly indicated. This medicinal product contains lactose. Patients with rare hereditary problems of galactose intolerance, the Lapplactase deficiency or glucose-galactose malabsorption should not take this medicinal product.

Use in pregnancy
Nebivolol has pharmacological effects that may cause harmful effects on pregnancy and/or
the foetus/newborn. In general, beta-adrenoreceptor blockers reduce placental perfusion,
which has been associated with growth retardation, intrauterine death, abortion or early labour.

Adverse effects (e.g. hypoglycaemia and bradycardia) may occur in the foetus and newborn

Adverse erects (e. g. hypodycaemia and pracycardia) may occur in the roetus and newborn infant. If treatment with beta-adrenoreceptor blockers is necessary, beta1-selective adrenoreceptor blockers are preferable.

Nebivolol should not be used during pregnancy unless clearly necessary. If treatment with Nebivolol is considered necessary, the uteroplacental blood flow and the foetal growth should be monitored. In case of harmful effects on pregnancy or the foetus, alternative treatment should be considered. The newborn infant must be cksely monitored.

Symptoms of hypoglycaemia and bradycardia are generally to be expected within the first 3

Use in lactation: Animal studies have shown that Nebivolol is excreted into breast milk. It is Ose in actauon: Allinia studies have shown that reportion is excelered into these rink. It is not known whether this drug is excreted into human milk. Most beta-blockers, particularly lipophilic compounds like Nebivolol and its active metabolites, pass into breast milk although to a variable extent. Therefore breast feeding is not recommended during administration of to a varial: Nebivo**l**ol.

Carcinogenesis, Mutagenesis and Fertility Impairment

Preclinical data reveal no special hazard for humans based on conventional studies of genotoxicity and carcinogenic potential.

OVERDOSAGE

No data are available on overdosage with Nebivolol.

Symptoms 5 4 1

Symptoms of overdosage with beta-blockers are: bradycardia, hypotension, bronchospasm and acute cardiac insufficiency.

Treatment

Treatment
In case of overdosage or hypersensitivity, the patient should be kept under close supervision and be treated in an intensive care ward. Blood glucose levels should be checked. Absorption of any drug residues still present in the gastrointestinal tract can be prevented by gastric lavage and the administration of activated charcoal and a laxative. Artificial respiration may be required. Bradycardia or extensive vagal reactions should be treated by administering atropine or methylatropine. Hypotension and shock should be treated with plasma/plasma substitutes and, if necessary, catecholamines. The beta-blocking effect can be counteracted by slow intravenous administration of isoprenaline hydrochloride, starting with a dose of approximately, 5 µg/minute, or dobutamine, starting with a dose of 2.5 µg/minute, until the required effect has been obtained. In refractory cases isoprenaline can be combined with dopamine. If this does not produce the desired effect either, intravenous administration of glucagon 50-100 µg/kg i.v. may be considered. If required, the injection should be repeated within one hour, to be followed, if required, by an i.v. infusion of glucagon 70 µg/kg/h. In within one hour, to be followed, if required, by an *i.v.* infusion of glucagon 70 μg/kg/h. In extreme cases of treatment-resistant bradycardia, a pacemaker may be inserted.

STORAGE

STORAGE
Store below 30°C in a dry place.
KEEP OUT OF REACH OF CHILDREN.

PRESENTATION

Alu/PVC/PVDC Blister Pack of 7 tablets

Zambia registration No.: Zimbabwe Registration No.: Mozambique Registration No.: Tanzania Registration No.: Namibia Registration No Botswana Registration No.:

UPCLEOD?

Manufactured in India by

MACLEODS PHARMACEUTICALS LTD.

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