

LABETALOL HYDROCHLORIDE - labetalol hydrochloride tablet, film coated

Eywa Pharma Inc

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use LABETALOL HYDROCHLORIDE TABLETS, USP safely and effectively. See full prescribing information for LABETALOL HYDROCHLORIDE TABLETS, USP. LABETALOL HYDROCHLORIDE tablets, USP for oral use. Initial U.S. Approval: 1984

INDICATIONS AND USAGE

Labetalol Hydrochloride Tablets, USP are a beta adrenergic blocker indicated for the treatment of hypertension, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. (1)

DOSAGE AND ADMINISTRATION

- The recommended initial dosage is 100 mg twice daily, alone or added to a diuretic regimen. Titrate in increments of 100 mg twice daily every 2 or 3 days. Maintenance dosage is between 200 and 400 mg twice daily. (2.1)
- Severe Hypertension: May require from 1,200 to 2,400mg per day, with or without thiazide diuretics. Titrate in increments not to exceed 200 mg twice daily. (2.2)
- Elderly patients: Initiate at 100 mg twice daily. Titrate in increments of 100 mg twice daily as required for blood pressure control. Many elderly patients will require between 100 and 200 mg twice daily. (2.3)

DOSAGE FORMS AND STRENGTHS

Tablets: 100 mg, 200 mg, and 300 mg tablets. (3)

CONTRAINDICATIONS

- Bronchial asthma or obstructive airway disease (4)
- Overt cardiac failure (4)
- Greater-than-first-degree heart block (4)
- Cardiogenic shock (4)
- Severe bradycardia (4)
- Non-dihydropyridine calcium-channel antagonists (4)

WARNINGS AND PRECAUTIONS

- Monitor patients for symptomatic postural hypotension and syncope after initial dosing or dose increments. (5.1)
- Monitor heart rate and rhythm for bradycardia, including sinus pause, heart block, severe bradycardia, and cardiac arrest in patients receiving Labetalol Hydrochloride Tablets. (5.2)
- Beta-blockade can depress myocardial contractility and precipitating more severe failure. Avoid use in patients with overt heart failure. (5.3)
- Acute exacerbation of coronary artery disease upon cessation of therapy. Do not abruptly discontinue. (5.4)
- Avoid use in patients with bronchospastic disease. (5.5)
- Beta-adrenergic blockade may prevent the appearance of premonitory signs and symptoms (e.g., tachycardia) of acute hypoglycemia. (5.6)
- Exacerbation of pheochromocytoma: Paradoxical increases in blood pressure may occur. (5.7)
- Hepatic necrosis and death have been reported. If the patient develops signs or symptoms of liver injury, institute appropriate treatment and investigate the probable cause. (5.8)
- Do not routinely withdraw chronic beta blocker therapy prior to surgery. (5.10)

ADVERSE REACTIONS

Most commonly observed adverse reactions: fatigue, nausea, dizziness (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Hibrow Healthcare Pvt. Ltd. at 1-888-400-7422 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Concomitant use with negative chronotropes can increase risk of bradycardia (7.1)
- Beta blockers antagonize the bronchodilator effect of beta-receptor agonists. (7.2)
- Increase hypotension may occur with halothane anesthesia. (7.3)

- Nitroglycerin may result in additional hypotensive effects. (7.4)

See 17 for PATIENT COUNSELING INFORMATION.

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FULL PRESCRIBING INFORMATION: CONTENTS*

1 INDICATIONS AND USAGE

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

3 DOSAGE FORMS AND STRENGTHS

4 CONTRAINDICATIONS

5 WARNINGS AND PRECAUTIONS

5.1 Hypotension

5.2 Bradycardia

5.3 Cardiac Failure

5.4 Ischemic Heart Disease

5.5 Reactive Airway Disease and Nonallergic Bronchospasm

5.6 Hypoglycemia

5.7 Use in Patients with Pheochromocytoma

5.8 Hepatic Injury

5.9 Use in Patients at Risk of Severe Acute Hypersensitivity Reactions

5.10 Major Surgery

5.11 Intraoperative Floppy Iris Syndrome (IFIS)

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

7 DRUG INTERACTIONS

7.1 Negative Chronotropes

7.2 Bronchodilators

7.3 Anesthesia

7.4 Nitroglycerin

7.5 Drug/Laboratory Test Interactions

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

8.2 Lactation

8.4 Pediatric Use

8.5 Geriatric Use

10 OVERDOSAGE

11 DESCRIPTION

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

12.2 Pharmacodynamics

12.3 Pharmacokinetics

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

16 HOW SUPPLIED/STORAGE AND HANDLING

17 PATIENT COUNSELING INFORMATION

* Sections or subsections omitted from the full prescribing information are not listed.

FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Labetalol Hydrochloride is indicated in the management of hypertension, to lower blood pressure. Lowering blood pressure reduces the risk of fatal and nonfatal cardiovascular events, primarily strokes and myocardial infarctions. These benefits have been seen in controlled trials of antihypertensive drugs from a wide variety of pharmacologic classes including beta adrenergic blockers.

Control of high blood pressure should be part of comprehensive cardiovascular risk management, including, as appropriate, lipid control, diabetes management, antithrombotic therapy, smoking cessation, exercise, and limited sodium intake. Many patients will require more than one drug to achieve blood pressure goals. For specific advice on goals and management, see published guidelines, such as those of the National High Blood Pressure Education Program's Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC).

Numerous antihypertensive drugs, from a variety of pharmacologic classes and with different mechanisms of action, have been shown in randomized controlled trials to reduce cardiovascular morbidity and mortality, and it can be concluded that it is blood pressure reduction, and not some other pharmacologic property of the drugs, that is largely responsible for those benefits. The largest and most consistent cardiovascular outcome benefit has been a reduction in the risk of stroke, but reductions in myocardial infarction and cardiovascular mortality also have been seen regularly.

Elevated systolic or diastolic pressure causes increased cardiovascular risk, and the absolute risk increase per mmHg is greater at higher blood pressures, so that even modest reductions of severe hypertension can provide substantial benefit. Relative risk reduction from blood pressure reduction is similar across populations with varying absolute risk, so the absolute benefit is greater in patients who are at higher risk independent of their hypertension (for example, patients with diabetes or hyperlipidemia), and such patients would be expected to benefit from more aggressive treatment to a lower blood pressure goal.

Some antihypertensive drugs have smaller blood pressure effects (as monotherapy) in black patients, and many antihypertensive drugs have additional approved indications and effects (e.g., on angina, heart failure, or diabetic kidney disease). These considerations may guide selection of therapy.

Labetalol Hydrochloride Tablets, USP may be used alone or in combination with other antihypertensive agents, especially thiazide and loop diuretics.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosage

Labetalol Hydrochloride dosage must be individualized.

The recommended initial dosage of labetalol hydrochloride is 100 mg twice daily. Adjust dosage in increments of 100 mg twice daily at 2-to 3-day intervals based on response. The recommended maintenance dosage of labetalol hydrochloride is between 200 and 400 mg twice daily.

3 DOSAGE FORMS AND STRENGTHS

Labetalol Hydrochloride Tablets, USP are available in the following strengths:

- 100 mg - White to off-white, biconvex, film coated tablets with “ET20” debossed on one side and non-functional scoring on the other side
- 200 mg - White to off-white, biconvex, film coated tablets with “ET21” debossed on one side and non-functional scoring on the other side
- 300 mg - White to off-white, biconvex, film coated tablets with “ET22” debossed on one side and non-functional scoring on the other side

4 CONTRAINDICATIONS

Labetalol Hydrochloride Tablets are contraindicated in patients with:

- bronchial asthma or obstructive airway disease
- decompensated heart failure
- greater than first degree heart block
- cardiogenic shock
- severe bradycardia
- Hypersensitivity reactions, including anaphylaxis, to labetalol
- non-dihydropyridine calcium-channel antagonists

5 WARNINGS AND PRECAUTIONS

5.1 Hypotension

Monitor patients for symptomatic postural hypotension and syncope after initial dosing or dose increments with Labetalol Hydrochloride Tablets. Elderly patients are generally more likely than younger patients to experience orthostatic symptoms [*see Dosage and Administration (2.1), Use in Specific Populations (8.5), Clinical Pharmacology (12.2)*].

5.2 Bradycardia

Bradycardia, including sinus pause, heart block, severe bradycardia, and cardiac arrest have occurred with the use of beta blockers. Monitor heart rate and rhythm in patients receiving Labetalol Hydrochloride Tablets.

5.3 Cardiac Failure

Sympathetic stimulation is a vital component supporting circulatory function in congestive heart failure. Beta blockade carries a potential hazard of further depressing myocardial contractility and precipitating more severe failure. Avoid Labetalol Hydrochloride Tablets in patients with overt congestive heart failure. If patients develop signs or symptoms of heart failure during administration, discontinue Labetalol Hydrochloride Tablets and treat appropriately.

5.4 Ischemic Heart Disease

Abrupt cessation of therapy with beta blocking agents in patients with coronary artery disease can cause exacerbations of angina pectoris and, in some cases, myocardial infarction has been reported. Therefore, even in the absence of overt angina pectoris, after the discontinuation of Labetalol Hydrochloride Tablets observe patients for development or worsening of angina. If patient experiences angina or angina markedly worsens or if acute coronary insufficiency develops, promptly reinstitute Labetalol Hydrochloride Tablets and manage as unstable angina.

5.5 Reactive Airway Disease and Nonallergic Bronchospasm

Avoid use in patients with reactive airways disease. If Labetalol Hydrochloride Tablets are used, use the smallest effective dose, to minimize inhibition of endogenous or exogenous beta agonists.

5.6 Hypoglycemia

Beta-blockers may prevent early warning signs of hypoglycemia, such as tachycardia, and increase the risk for severe or prolonged hypoglycemia at any time during treatment, especially in patients with diabetes mellitus or children and patients who are fasting (i.e., surgery, not eating regularly, or are vomiting). If severe hypoglycemia occurs, patients should be instructed to seek emergency treatment.

5.7 Use in Patients with Pheochromocytoma

Labetalol hydrochloride has been shown to be effective in lowering blood pressure and relieving symptoms in patients with pheochromocytoma; higher than usual doses may be required. However, paradoxical hypertensive responses have been reported in a few patients with this tumor; therefore, blood pressure when administering labetalol hydrochloride to patients with pheochromocytoma.

5.8 Hepatic Injury

Severe hepatocellular injury occurs rarely with labetalol therapy. The hepatic injury is usually reversible, but hepatic necrosis and death have been reported. If the patient develops signs or symptoms of liver injury, institute appropriate treatment and investigate the probable cause. Do not restart labetalol in patients without another explanation for the observed liver injury.

5.9 Use in Patients at Risk of Severe Acute Hypersensitivity Reactions

Patients at risk of anaphylactic reactions may be more reactive to allergen exposure (accidental, diagnostic, or therapeutic). Patients using beta-blockers may be unresponsive to the usual doses of epinephrine used to treat anaphylactic or

anaphylactoid reactions. Avoid Labetalol Hydrochloride Tablets in patients at high risk of anaphylactic reactions.

5.10 Major Surgery

Do not routinely withdraw chronic beta blocker therapy prior to surgery. The effect of labetalol's alpha adrenergic activity has not been evaluated in this setting. A synergism between labetalol hydrochloride and halothane anesthesia has been shown [see *Drug Interactions* (7.3)].

5.11 Intraoperative Floppy Iris Syndrome (IFIS)

IFIS has been observed during cataract surgery in some patients treated with alpha-1 blockers (labetalol is an alpha/beta blocker). This variant of small pupil syndrome is characterized by the combination of a flaccid iris that billows in response to intraoperative irrigation currents, progressive intraoperative miosis despite preoperative dilation with standard mydriatic drugs, and potential prolapse of the iris toward the phacoemulsification incisions. Inform the patient's ophthalmologist to be prepared for possible modifications to the surgical technique, such as the utilization of iris hooks, iris dilator rings, or viscoelastic substances.

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Hypotension [see *Warnings and Precautions* (5.1)]
- Bradycardia [see *Warnings and Precautions* (5.2)]
- Cardiac failure [see *Warnings and Precautions* (5.3)]
- Ischemic heart disease [see *Warnings and Precautions* (5.4)]
- Nonallergic bronchospasm [see *Warnings and Precautions* (5.5)]
- Use in patients with pheochromocytoma [see *Warnings and Precautions* (5.7)]
- Hepatic injury [see *Warnings and Precautions* (5.8)]
- Risk of severe acute hypersensitivity reaction [see *Warnings and Precautions* (5.9)]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

In controlled clinical trials of 3 to 4 months' duration, discontinuation of Labetalol Hydrochloride Tablets due to one or more adverse effects was required in 7% of all patients.

The incidence rates of adverse reactions listed in Table 1 were derived from multicenter, controlled clinical trials comparing labetalol hydrochloride and placebo over treatment periods of 3 and 4 months.

Table 1: Adverse Reactions Occurring in at Least 2% of Patients and More

Frequent on Labetalol

	Labetalol HCl (n=227)	Placebo (n=98)
Body as a whole		
Fatigue	5%	0%
Headache	2%	1%
Gastrointestinal		
Nausea	6%	1%
Dyspepsia	3%	1%
Central and peripheral nervous system		
Dizziness	11%	3%
Autonomic nervous system		
Nasal stuffiness	3%	0%
Respiratory		
Dyspnea	2%	0%
Special senses		
Vertigo	2%	1%

The adverse effects were reported spontaneously and are representative of the incidence of adverse effects that may be observed in a properly selected hypertensive patient population, i.e., a group excluding patients with bronchospastic disease, overt congestive heart failure, or other contraindications to beta-blocker therapy.

Clinical trials also included studies utilizing daily doses up to 2,400 mg in more severely hypertensive patients. Certain of the side effects increased with increasing dose, as shown in Table 2 that depicts the entire US therapeutic trials data base for adverse reactions that are clearly or possibly dose related.

7 DRUG INTERACTIONS

7.1 Negative Chronotropes

Digitalis glycosides, diltiazem, verapamil, and beta-blockers slow atrioventricular conduction and decrease heart rate. Concomitant use with negative chronotropes can increase the risk of bradycardia or hypotension[see *Warnings and Precautions (5.2)*]. Coadministration of labetalol HCl with non-dihydropyridine calcium-channel antagonists (e.g., verapamil) is contraindicated [see *Contraindications (4)*].

7.2 Bronchodilators

Labetalol HCl antagonizes the bronchodilatory effect of beta-receptor agonist drugs; therefore, labetalol HCl is contraindicated in patients with bronchial asthma [see *Contraindications (4)*].

7.3 Anesthesia

Synergism has been shown between halothane anesthesia and intravenously

administered labetalol. During controlled hypotensive anesthesia using labetalol in association with halothane, high concentrations (3% or above) of halothane should not be used because the degree of hypotension will be increased and because of the possibility of a large reduction in cardiac output and an increase in central venous pressure.

7.4 Nitroglycerin

Coadministration of labetalol HCl and nitroglycerine will have an additive effect in lowering blood pressure. Additionally, labetalol HCl blunts the reflex tachycardia produced by nitroglycerin. If labetalol HCl is used in patients with angina pectoris on nitroglycerin, monitor patients' blood pressure and adjust labetalol dose as needed. In these patients, avoid initiating Labetalol Hydrochloride Tablets.

7.5 Drug/Laboratory Test Interactions

The presence of labetalol metabolites in the urine may result in falsely elevated levels of urinary catecholamines, metanephrine, normetanephrine, and vanillylmandelic acid (VMA) when measured by fluorimetric or photometric methods. In screening patients suspected of having a pheochromocytoma and being treated with labetalol, a specific method, such as a high-performance liquid chromatographic assay with solid phase extraction should be employed in determining levels of catecholamines.

Labetalol has also been reported to produce a false positive test for amphetamine when screening urine for the presence of drugs using the commercially available assay methods. When patients being treated with labetalol have a positive urine test for amphetamine using these techniques, confirm using more specific methods, such as a gas chromatographic mass spectrometer technique.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

The extensive experience with use of labetalol in pregnant women, based on published interventional and observational studies, has not identified a drug-associated risk for major birth defects, miscarriage, or adverse maternal or fetal outcomes (see Data). Untreated hypertension during pregnancy can lead to serious adverse outcomes for the mother and the fetus (see Clinical Considerations). In animal reproductive studies, oral administration of labetalol to pregnant rats and rabbits during organogenesis at doses up to approximately six and four times the maximum recommended human dose (MRHD), respectively, resulted in no fetal malformations; however, increased fetal resorptions were seen in both species at doses approximating the MRHD (see Data).

In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

Clinical Consideration

Disease-Associated Maternal and/or Embryo/Fetal Risk

Hypertension in pregnancy increase the maternal risk for pre-eclampsia, gestational diabetes, premature delivery, and delivery complications (e.g., need for cesarean section, and post-partum hemorrhage). Hypertension increases the fetal risk for intrauterine growth restriction and intrauterine death. Pregnant women with hypertension should be carefully monitored and managed accordingly.

Fetal/Neonatal Adverse Reactions

Labetalol crosses the placenta. Neonates born to mothers who are receiving labetalol during pregnancy, may be at risk for hypotension, bradycardia, hypoglycemia, and respiratory depression. Neonates should be monitored for symptoms of hypotension, bradycardia, hypoglycemia and respiratory depression and managed accordingly.

Data

Human Data

Data from published interventional and observational studies did not demonstrate an association between major congenital malformations and the use of labetalol in pregnancy, however, most studies reported the maternal use of intravenous labetalol occurring after 20 weeks gestation. The published literature has reported inconsistent findings of intrauterine growth retardation, preterm birth and perinatal mortality with maternal use of labetalol during pregnancy; however, these studies have methodological limitations hindering interpretation. These studies cannot definitively establish the absence of risk during pregnancy.

Animal Data

Teratogenic studies were performed with labetalol in rats and rabbits at oral doses up to approximately six and four times the maximum recommended human dose (MRHD), respectively. No reproducible evidence of fetal malformations was observed. Increased fetal resorptions were seen in both species at doses approximating the MRHD.

A teratology study performed with labetalol in rabbits at intravenous doses up to 1.7 times the MRHD revealed no evidence of drug-related harm to the fetus.

Oral administration of labetalol to rats during late gestation through weaning at doses of two to four times the MRHD caused a decrease in neonatal survival.

8.2 Lactation

Risk Summary

Available published data report the presence of labetalol in human milk at low levels. There are no data on the effects on the breastfed infant and on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for labetalol and any potential adverse effects on the breastfed infant from labetalol or from the underlying maternal condition.

8.4 Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

8.5 Geriatric Use

Pharmacokinetic studies indicate that the elimination of labetalol is reduced in elderly patients. Although elderly patients may initiate therapy at the currently recommended

dosage of 100 mg twice daily, elderly patients will generally require lower maintenance dosages than nonelderly patients.

10 OVERDOSAGE

Overdosage with labetalol hydrochloride causes excessive hypotension that is posture sensitive and, sometimes, excessive bradycardia. Patients should be placed supine and their legs raised if necessary to improve the blood supply to the brain. Treat symptoms of overdose with standard supportive care. If overdosage with labetalol hydrochloride follows oral ingestion, gastric lavage or pharmacologically induced emesis (using syrup of ipecac) may be useful for removal of the drug shortly after ingestion. Treat symptoms of overdose with standard supportive care.

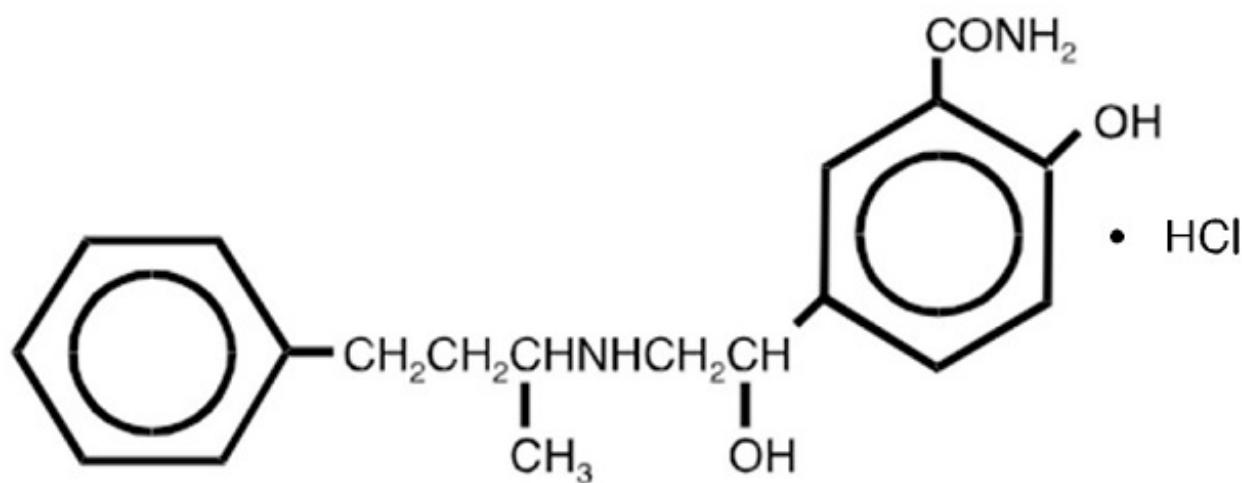
Neither hemodialysis nor peritoneal dialysis removes a significant amount of labetalol hydrochloride from the general circulation (<1%).

The oral LD₅₀ value of labetalol hydrochloride in the mouse is approximately 600 mg/kg and in the rat is >2 g/kg. The IV LD₅₀ in these species is 50 mg/kg to 60 mg/kg.

11 DESCRIPTION

Labetalol Hydrochloride Tablets, USP contain labetalol hydrochloride, an adrenergic receptor blocking agent that has both selective α_1 adrenergic and nonselective beta-adrenergic receptor blocking actions in a single substance.

Labetalol hydrochloride is a racemate chemically designated as 2-hydroxy-5-[1-hydroxy-2-[(1-methyl-3-phenylpropyl) amino] ethyl] benzamide monohydrochloride, and it has the following structural formula:



Labetalol hydrochloride has the empirical formula $C_{19}H_{24}N_2O_3 \cdot HCl$ and a molecular weight of 364.9. It has two asymmetric centers and therefore exists as a molecular complex of two diastereoisomeric pairs. Dilevalol, the R,R' stereoisomer, makes up 25% of racemic labetalol.

Labetalol hydrochloride is a white or off-white crystalline powder, soluble in water.

Labetalol Hydrochloride Tablets, USP contain 100 mg, 200 mg, or 300 mg of labetalol hydrochloride and are for oral administration. The tablets also contain the inactive ingredients lactose monohydrate, magnesium stearate, pregelatinized corn starch, sodium starch glycolate.

FDA approved dissolution test specifications differ from USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Labetalol hydrochloride combines both selective, competitive, α_1 -adrenergic blocking and nonselective, competitive, beta-adrenergic blocking activity. The ratios of alpha- to beta-blockade have been estimated to be approximately 1:3 and 1:7 following oral and intravenous (IV) administration, respectively.

12.2 Pharmacodynamics

The capacity of labetalol hydrochloride to block alpha receptors in man has been demonstrated by attenuation of the pressor effect of phenylephrine and by a significant reduction of the pressor response caused by immersing the hand in ice cold water ("cold pressor test"). Labetalol hydrochloride's β_1 receptor blockade in man was demonstrated by a small decrease in the resting heart rate, attenuation of tachycardia produced by isoproterenol or exercise, and by attenuation of the reflex tachycardia to the hypotension produced by amyl nitrite. β_2 receptor blockade was demonstrated by inhibition of the isoproterenol induced fall in diastolic blood pressure. Both the alpha- and beta blocking actions of orally administered labetalol hydrochloride contribute to a decrease in blood pressure in hypertensive patients. Labetalol hydrochloride consistently, in dose related fashion, blunted increases in exercise induced blood pressure and heart rate, and in their double product. The pulmonary circulation during exercise was not affected by labetalol hydrochloride dosing.

The effects on A-V nodal refractoriness were inconsistent. Single oral doses of labetalol hydrochloride administered to patients with coronary artery disease had no significant effect on sinus rate, intraventricular conduction, or QRS duration. The atrioventricular (A-V) conduction time was modestly prolonged in two of seven patients. In another study, IV labetalol hydrochloride slightly prolonged A V nodal conduction time and atrial effective refractory period with only small changes in heart rate.

Labetalol hydrochloride produces dose-related falls in blood pressure without reflex

tachycardia and without significant reduction in heart rate, presumably through a mixture of its alpha- and beta-blocking effects. Hemodynamic effects are variable, with small, nonsignificant changes in cardiac output seen in some studies but not others, and small decreases in total peripheral resistance. Elevated plasma renins are reduced.

Due to the α_1 -receptor blocking activity of labetalol hydrochloride, blood pressure is lowered more in the standing than in the supine position, and symptoms of postural hypotension (2%), including rare instances of syncope, can occur. Following oral administration, when postural hypotension has occurred, it has been transient and is uncommon when the recommended starting dose and titration increments are closely followed [see *Dosage and Administration (2.1)*]. Symptomatic postural hypotension is most likely to occur 2 to 4 hours after a dose, especially following the use of large initial doses or upon large changes in dose.

The peak effects of single oral doses of labetalol hydrochloride occur within 2 to 4 hours. The duration of effect depends upon dose, lasting at least 8 hours following single oral doses of 100 mg and more than 12 hours following single oral doses of 300 mg. The maximum, steady state blood pressure response upon oral, twice-a-day dosing occurs within 24 to 72 hours.

The antihypertensive effect of labetalol has a linear correlation with the logarithm of labetalol plasma concentration, and there is also a linear correlation between the reduction in exercise induced tachycardia occurring at 2 hours after oral administration of labetalol hydrochloride and the logarithm of the plasma concentration.

About 70% of the maximum beta-blocking effect is present for 5 hours after the administration of a single oral dose of 400 mg with suggestion that about 40% remains at 8 hours.

12.3 Pharmacokinetics

Absorption

Labetalol hydrochloride is absorbed with peak plasma levels occurring 1 to 2 hours after oral administration.

The relative bioavailability of Labetalol Hydrochloride Tablets compared to an oral solution is 100%. The absolute bioavailability (fraction of drug reaching systemic circulation) of labetalol when compared to an IV infusion is 25%; this is due to extensive "first-pass" metabolism. There is a linear relationship between oral doses of 100 mg to 3,000 mg and peak plasma levels.

Effect of Food

The absolute bioavailability of labetalol is increased when administered with food.

Distribution

Labetalol has been shown to cross the placental barrier in humans. Labetalol is approximately 50% protein bound.

Elimination

The plasma half-life of labetalol following oral administration is about 6 to 8 hours. Steady-state plasma levels of labetalol are reached by about the third day of dosing.

Metabolism

Metabolism of labetalol is mainly through conjugation to glucuronide metabolites.

Excretion

Approximately 55% to 60% of a dose appears in the urine as conjugates or unchanged labetalol within the first 24 hours of dosing. These metabolites are present in plasma and are excreted in the urine and, via the bile, into the feces. Neither hemodialysis nor peritoneal dialysis removes a significant amount of labetalol hydrochloride from the general circulation (<1%).

Specific Populations

Patients with Renal or Hepatic Impairment

In patients with decreased hepatic or renal function, the elimination half-life of labetalol is not altered; however, the relative bioavailability in hepatically impaired patients is increased due to decreased "first pass" metabolism.

Drug Interaction Studies

Tricyclic Antidepressants

In one survey, 2.3% of patients taking labetalol hydrochloride in combination with tricyclic antidepressants experienced tremor, as compared to 0.7% reported to occur with labetalol hydrochloride alone. The contribution of each of the treatments to this adverse reaction is unknown, but the possibility of a drug interaction cannot be excluded.

Cimetidine

Cimetidine has been shown to increase the bioavailability of labetalol hydrochloride. Since this could be explained either by enhanced absorption or by an alteration of hepatic metabolism of labetalol hydrochloride, special care should be used in establishing the dose required for blood pressure control in such patients.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term oral dosing studies with labetalol hydrochloride for 18 months in mice and for 2 years in rats showed no evidence of carcinogenesis. Studies with labetalol hydrochloride using dominant lethal assays in rats and mice and exposing microorganisms according to modified Ames tests showed no evidence of mutagenesis.

16 HOW SUPPLIED/STORAGE AND HANDLING

Labetalol Hydrochloride Tablets USP, 100 mg, White to off-white, biconvex, film coated tablets with "ET20" debossed on one side and nonfunctional scoring on the other side, bottles of 100 (NDC 71930-035-12) and bottles of 500 (NDC 71930-035-52).

Labetalol Hydrochloride Tablets USP, 200 mg, White to off-white, biconvex, film coated tablets with “ET21” debossed on one side and nonfunctional scoring on the other side, bottles of 100 (NDC 71930-036-12) and bottles of 500 (NDC 71930-036-52).

Labetalol Hydrochloride Tablets USP, 300 mg, White to off-white, biconvex, film coated tablets with “ET22” debossed on one side and nonfunctional scoring on the other side, bottles of 100 (NDC 71930-037-12) and bottles of 500 (NDC 71930-037-52).

Storage

Store Labetalol Hydrochloride Tablets, USP between 2° and 30°C (36° and 86°F).

17 PATIENT COUNSELING INFORMATION

- Advise patients to not interrupt or discontinue using Labetalol Hydrochloride Tablets without advice from their healthcare provider
- Advise patients to contact their healthcare provider about any signs or symptoms of impending cardiac failure or hepatic dysfunction [see *Warnings and Precautions* (5.3,5.8)]
- Inform patients or caregivers that there is a risk of hypoglycemia when Labetalol Hydrochloride Tablets is given to patients who are fasting or who are vomiting. Monitor for symptoms of hypoglycemia [see *Warnings and Precautions* (5.6)].

Manufactured for:

Eywa-Hibrow Pharma
908 Oak Tree Road, Suite O
South Plainfield, NJ 07080

Made in India

Revised: 04/2025

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL

NDC 71930-035-12

Labetalol Hydrochloride Tablets, USP

100 mg

Rx only

100 tablets

Eywa-Hibrow Pharma

Each tablet contains
100 mg of labetalol hydrochloride, USP.
See package insert for Dosage and
Administration.
Store at 2° to 30° (36° to 86°F).
**Dispense in tight containers as defined
in the USP/NF.**

Manufactured For:
Eywa-Hibrow Pharma
908 Oak Tree Road, Suite 0
South Plainfield, NJ 07080
MADE IN INDIA

NDC 71930-035-12

**Labetalol
Hydrochloride
Tablets, USP**

100 mg

R_xonly

100 TABLETS



Rev. 04/2025

LOT: **SPOT UV**

EXP.: **1.5" X 1"**


N 3 71930-035-12 8

NDC 71930-036-12

Labetalol Hydrochloride Tablets, USP

200 mg

Rx only

100 tablets

Eywa-Hibrow Pharma

Each tablet contains
200 mg of labetalol hydrochloride, USP.
See package insert for Dosage and
Administration.
Store at 2° to 30° (36° to 86°F).
**Dispense in tight containers as defined
in the USP/NF.**

Manufactured For:
Eywa-Hibrow Pharma
908 Oak Tree Road, Suite 0
South Plainfield, NJ 07080
MADE IN INDIA

NDC 71930-036-12

**Labetalol
Hydrochloride
Tablets, USP**

200 mg

R_xonly

100 TABLETS



Rev. 04/2025

LOT: **SPOT UV**

EXP.: **1.5" X 1"**


N 3 71930-036-12 5

NDC 71930-037-12

Labetalol Hydrochloride Tablets, USP

300 mg

Rx only

100 tablets

Eywa-Hibrow Pharma

Each tablet contains
300 mg of labetalol hydrochloride, USP.
See package insert for Dosage and
Administration.
Store at 2° to 30° (36° to 86°F).
Dispense in tight containers as defined
in the USP/NF.

Manufactured For:
Eywa-Hibrow Pharma
908 Oak Tree Road, Suite 0
South Plainfield, NJ 07080
MADE IN INDIA

NDC 71930-037-12

**Labetalol
Hydrochloride
Tablets, USP**

300 mg

100 TABLETS

Rev. 04/2025

**SPOT UV
2" x 1"**

LOT:

EXP.:

71930-037-12 2

3

LABETALOL HYDROCHLORIDE				
labetalol hydrochloride tablet, film coated				
Product Information				
Product Type		HUMAN PRESCRIPTION DRUG		Item Code (Source)
Route of Administration		ORAL		
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
LABETALOL HYDROCHLORIDE (UNII: 1GEV3BAW9J) (LABETALOL - UNII:R5H8897N95)			LABETALOL HYDROCHLORIDE	100 mg
Inactive Ingredients				
Ingredient Name				Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
STARCH, PREGELATINIZED CORN (UNII: O8232NY3SJ)				
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)				
Product Characteristics				
Color	WHITE	Score	no score	
Shape	ROUND	Size	8mm	
Flavor		Imprint Code	ET20	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71930-035-12	100 in 1 BOTTLE; Type 0: Not a Combination Product	05/24/2019	
	NDC:71930-035	500 in 1 BOTTLE; Type 0: Not a Combination Product		

2	NDC: 71930-036-52	500 in 1 BOTTLE; Type 0: Not a Combination Product	05/24/2019	
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
ANDA	ANDA207863		05/24/2019	

LABETALOL HYDROCHLORIDE				
labetalol hydrochloride tablet, film coated				
Product Information				
Product Type		HUMAN PRESCRIPTION DRUG	Item Code (Source)	
Route of Administration		ORAL	NDC:71930-036	
Active Ingredient/Active Moiety				
Ingredient Name			Basis of Strength	Strength
LABETALOL HYDROCHLORIDE (UNII: 1GEV3BAW9J) (LABETALOL - UNII:R5H8897N95)			LABETALOL HYDROCHLORIDE	200 mg
Inactive Ingredients				
Ingredient Name				Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
STARCH, PREGELATINIZED CORN (UNII: O8232NY3SJ)				
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)				
Product Characteristics				
Color	WHITE	Score	no score	
Shape	ROUND	Size	10mm	
Flavor		Imprint Code	ET21	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71930-036-12	100 in 1 BOTTLE; Type 0: Not a Combination Product	05/24/2019	
2	NDC:71930-036-52	500 in 1 BOTTLE; Type 0: Not a Combination Product	05/24/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA207863	05/24/2019	

LABETALOL HYDROCHLORIDE

labetalol hydrochloride tablet, film coated

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:71930-037
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
LABETALOL HYDROCHLORIDE (UNII: 1GEV3BAW9J) (LABETALOL - UNII: R5H8897N95)	LABETALOL HYDROCHLORIDE	300 mg

Inactive Ingredients

Ingredient Name	Strength
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
STARCH, PREGELATINIZED CORN (UNII: O8232NY3SJ)	
SODIUM STARCH GLYCOLATE TYPE A CORN (UNII: AG9B65PV6B)	

Product Characteristics

Color	WHITE	Score	no score
Shape	ROUND	Size	11mm
Flavor		Imprint Code	ET22
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:71930-037-12	100 in 1 BOTTLE; Type 0: Not a Combination Product	05/24/2019	
2	NDC:71930-037-52	500 in 1 BOTTLE; Type 0: Not a Combination Product	05/24/2019	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA207863	05/24/2019	

Labeler - Eywa Pharma Inc (080465609)

Establishment

Name	Address	ID/FEI	Business Operations
ELYSIUM PHARMACEUTICALS LIMITED		915664486	MANUFACTURE(71930-035, 71930-036, 71930-037)

Revised: 4/2025

Eywa Pharma Inc