



HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use RANOLAZINE EXTENDED-RELEASE TABLETS safely and effectively. See full prescribing information for RANOLAZINE EXTENDED-RELEASE TABLETS.

RANOLAZINE extended-release tablets, for oral use

Initial U.S. Approval: 2006

....INDICATIONS AND USAGE Ranolazine extended-release tablet is an antianginal indicated for the treatment of chronic angina. (1)

--- DOSAGE AND ADMINISTRATION-

500 mg twice daily and increase to 1000 mg twice daily, based on clinical symptoms (2.1)

...DOSAGE FORMS AND STRENGTHS Extended-release tablets: 500 mg, 1000 mg (3)

--- CONTRAINDICATIONS-

- Strong CYP3A inhibitors (e.g., ketoconazole, clarithromycin, nelfinavir) (4, 7.1) CYP3A inducers (e.g., rifampin, phenobarbital, St. John's wort) (4, 7.1)

....WARNINGS AND PRECAUTIONS-

- QT interval prolongation: Can occur with ranolazine. Little data available on high doses, long exposure, use with QT interval $prolonging\ drugs, potassium\ channel\ variants\ causing\ prolonged\ QT\ interval,\ in\ patients\ with\ a\ family\ history\ of\ (or\ congenital)$ long QT syndrome, or in patients with known acquired QT interval prolongation. (5.1)
- Renal failure: Monitor renal function after initiation and periodically in patients with moderate to severe renal in $(CrCL < 60 \, mL/min)$. If acute renal failure develops, discontinue ranolazine extended-release tablets. (5.2)

---ADVERSE REACTIONS--Most common adverse reactions (>4% and more common than with placebo) are dizziness, headache, constipation, nausea. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Hetero Labs Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

- $Moderate\ CYP3A\ inhibitors\ (e.g.,\ diltiazem,\ verapamil,\ erythromycin): Limit\ ranolazine\ extended-release\ tablets\ to\ 500\ mg\ twice$
- CYP3A substrates (e.g., lovastatin) and CYP3A substrates with narrow therapeutic range (e.g., cyclosporine, tacrolimus,
- OCT2 substrates: Limit the dose of metformin to 1700 mg daily when used with ranolazine extended-release tablets 1000 mg twice daily. Doses of other OCT2 substrates may require adjusted doses. (7.2)

See 17 for PATIENT COUNSELING INFORMATION and FDA-Approved Patient Labeling

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FULL PRESCRIBING INFORMATION INDICATIONS AND USAGE

Ranolazine extended-release tablets are indicated for the treatment of chronic angina.

Ranolazine extended-release tablets may be used with beta-blockers, nitrates, calcium channel blockers, anti-platelet therapy, lipid-lowering therapy, ACE inhibitors, and angiotensin receptor blockers.

DOSAGE AND ADMINISTRATION

Initiate ranolazine extended-release tablets dosing at 500 mg twice daily and increase to 1000 mg twice daily, as needed, based on clinical symptoms. Take ranolazine extended-release tablets with or without meals. Swallow ranolazine extended-release tablets

The maximum recommended daily dose of ranolazine extended-release tablets is 1000 mg twice daily If a dose of ranolazine extended-release tablets is missed, take the prescribed dose at the next scheduled time; do not double the next

2.2 Dose Modification

Dose adjustments may be needed when ranolazine extended-release tablets are taken in combination with certain other drugs [see Drug Interactions (7.1)]. Limit the maximum dose of ranolazine extended-release tablets to 500 mg twice daily in patients on moderate CYP3A inhibitors such as diltiazem, verapamil, and erythromycin. Use of ranolazine extended-release tablets with strong CYP3A inhibitors is contraindicated (see Contraindications (4), Drug Interactions (7.1). Use of P-gp inhibitors, such as cyclosporine, may increase exposure to ranolazine extended-release tablets. Titrate ranolazine extended-release tablets based on clinical response/see

3 DOSAGE FORMS AND STRENGTHS

Ranolazine extended-release tablets are supplied in the following strengths:
Ranolazine extended-release tablets, 500 mg are blue colored, oblong shaped film coated tablets debossed with 'R18' on one side and

Ranolazine extended-release tablets, 1000 mg are blue colored, oblong shaped film coated tablets debossed with 'R19' on one side and

'H' on the other side.

A CONTRAINDICATIONS Ranolazine extended-release tablets are contraindicated in patients

Taking strong inhibitors of CYP3A (see Drug Interactions (7.1)) Taking inducers of CYP3A (see Drug Interactions (7.1))

With liver cirrhosis [see Use in Specific Populations (8.6)] WARNINGS AND PRECAUTIONS

QT Interval Prolongation Ranolazine blocks I_{κ} and prolongs the QTc interval in a dose-related manner

Clinical experience in an acute coronary syndrome population did not show an increased risk of proarrhythmia or sudden death (see Clinical Studies (14.2). However, there is little experience with high doses (> 1000 mg twice daily) or exposure, other OT-prolonging rugs, potassium channel variants resulting in a long QT interval, in patients with a family history of (or congenital) long QT syndron in patients with known acquired QT interval prolongation.

5.2 Renal Failure

Acute renal failure has been observed in some patients with severe renal impairment (creatinine clearance [CrCL1 < 30 mL/min) while taking ranolazine extended-release tablets. If acute renal failure develops (e.g., marked increase in serum creatinine associated with an increase in blood urea nitrogen [BUN]), discontinue ranolazine extended-release tablets and treat appropriately [see Use in Specific Populations (8.7)].

Monitor renal function after initiation and periodically in patients with moderate to severe renal impairment (CrCL < 60 mL/min) for increases in serum creatinine accompanied by an increase in BUN.

ADVERSE REACTIONS 6.1 Clinical Trial 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.

A total of 2.018 patients with chronic angina were treated with ranglazine in controlled clinical trials. Of the patients treated with ranolazine extended-release tablets, 1,026 were enrolled in three double-blind, placebo-controlled, randomized studies (CARISA, ERICA, MARISA) of up to 12 weeks' duration. In addition, upon study completion, 1,251 patients received treatment with ranolazine extended-release tablets in open-label, long-term studies; 1,227 patients were exposed to ranolazine extended-release tablets for more $than 1\,year, 613\,patients\,for\,more\,than\,2\,years, 531\,patients\,for\,more\,than\,3\,years, and\,326\,patients\,for\,more\,than\,4\,years, and\,326\,patients\,for\,more\,than\,4\,years,$

At recommended doses, about 6% of patients discontinued treatment with ranolazine extended-release tablets because of an advers event in controlled studies in angina patients compared to about 3% on placebo. The most common adverse events that led to discontinuation more frequently on ranolazine extended-release tablets than placebo were dizziness (1.3% versus 0.1%), nausea (1% versus 0%), asthenia, constipation, and headache (each about 0.5% versus 0%). Doses above 1000 mg twice daily are poorly tolerated. In controlled clinical trials of angina patients, the most frequently reported treatment-emergent adverse reactions (> 4% and more common on ranolazine extended-release tablets than on placebo) were dizziness (6.2%), headache (5.5%), constipation (4.5%), and nausea (4.4%). Dizziness may be dose-related. In open-label, long-term treatment studies, a similar adverse reaction profile was

 $The following additional adverse \ reactions \ occurred \ at \ an incidence \ of \ 0.5 \ to \ 4.0\% \ in patients \ treated \ with \ ranolazine \ extended \ release$ tablets and were more frequent than the incidence observed in placebo-treated p

Cardiac Disorders - bradycardia, palpitations Ear and Labyrinth Disorders - tinnitus, vertigo

Eye Disorders - blurred vision

Gastrointestinal Disorders – abdominal pain, dry mouth, vomiting, dyspepsia General Disorders and Administrative Site Adverse Events – asthenia, peripheral edema

Metabolism and Nutrition Disorders - anorexia

Nervous System Disorders - syncope (vasovagal) Psychiatric Disorders - confusional state

Renal and Urinary Disorders - hematuria

Respiratory, Thoracic, and Mediastinal Disorders - dyspnea Skin and Subcutaneous Tissue Disorders - hyperhidrosis Vascular Disorders - hypotension, orthostatic hypotensio

Other (<0.5%) but potentially medically important adverse reactions observed more frequently with ranolazine extended-release tablets than placebo treatment in all controlled studies included: angioedema, renal failure, eosinophilia, chromaturia, blood urea increased, hypoesthesia, paresthesia, tremor, pulmonary fibrosis, thrombocytopenia, leukopenia, and pancytopenia. A large clinical trial in acute coronary syndrome patients was unsuccessful in demonstrating a benefit for ranolazine extended-release

tablets, but there was no apparent proarrhythmic effect in these high-risk patients [see Clinical Studies (14.2)]. Laboratory Abnormalities: $Ranolazine\ extended\ release\ tablets\ produces\ elevations\ of\ serum\ creatinine\ by\ 0.1\ mg/dL, regardless\ of\ previous\ renal\ function,\ likely$

because of inhibition of creatinine's tubular secretion. In general, the elevation has a rapid onset, shows no signs of progression during long-term therapy, is reversible after discontinuation of ranolazine extended-release tablets, and is not accompa In healthy volunteers, ranolazine extended-release tablets 1000 mg twice daily had no effect upon the glomerular filtration rate. More marked and progressive increases in serum creatinine, associated with increases in BUN or notassium, indicating acute renal failure. ted after initiation of ranolazine extended-release tablets in patients with severe renal impairment *(see Warnings and* Precautions (5.2), Use in Specific Populations (8.7)]

6.2 Postmarketing Experience

The following adverse reactions have been identified during postapproval use of ranolazine extended-release tablets. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure: $\textit{Nervous System Disorders} - \text{Abnormal coordination, myoclonus, paresthesia, tremor, and other serious neurologic adverse events have a supplied of the desired coordination of the desired coordi$

been reported to occur, sometimes concurrently, in patients taking ranolazine. The onset of events was often associated with an $increase\ in\ ranolazine\ dose\ or\ exposure.\ Many\ patients\ reported\ symptom\ resolution\ following\ drug\ discontinuous$ Metabolism and Nutrition Disorders - Cases of hypoglycemia have been reported in diabetic patients on antidiabetic medication. Psychiatric Disorders - hallucination

Renal and Urinary Disorders - dysuria, urinary retention

Skin and Subcutaneous Tissue Disorders - angioedema, pruritus, rash DRUG INTERACTIONS

Strong CYP3A Inhibitors

7.1 Effects of Other Drugs on Ranolazin

Do not use ranolazine extended-release tablets with strong CYP3A inhibitors, including ketoconazole, itraconazole, clarithromycin, nefazodone, nelfinavir, ritonavir, indinavir, and saquinavir [see Contraindications (4), Clinical Pharmacology (12.3)].

Moderate CYP3A Inhibitors

Limit the dose of ranolazine extended-release tablets to 500 mg twice daily in patients on moderate CYP3A inhibitors, including

-DRUG INTERACTIONS-

Adily. (7.1)
P-gp inhibitors (e.g., cyclosporine): Ranolazine exposure increased.

- Titrate ranolazine extended-release tablets based on clinical response, (7.1) CYP3A substrates: Limit simvastatin to 20 mg when used with ranolazine extended-release tablets. Doses of other sensitive
- sirolimus) may need to be reduced with ranolazine extended-release tablets. (7.2)
- Drugs transported by P-gp (e.g., digoxin), or drugs metabolized by CYP2D6 (e.g., tricyclic antidepressants) may need reduced doses when used with ranolazine extended-release tablets. (7.2)

Revised: 05/2021

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diltiazem, verapamil, erythromycin, fluconazole, and grapefruit juice or grapefruit-containing products (see Dosage and Administration

P-gp Inhibitors Concomitant use of ranolazine extended-release tablets and P-qp inhibitors, such as cyclosporine, may result in increases in ranolazine concentrations. Titrate ranolazine extended release tablets based on clinical response in patients concomitantly treated with minant P-gp inhibitors such as cyclosporine (see Dosage and Administration (2.2))

Do not use ranolazine extended-release tablets with CYP3A inducers such as rifampin, rifabutin, rifapentine, phenobarbital, phenytoir carbamazepine, and St. John's wort [see Contraindications (4), Clinical Pharmacology (12.3)].

7.2 Effects of Ranolazine on Other Drugs

Limit the dose of simvastatin in patients on any dose of ranolazine extended-release tablets to 20 mg once daily, when ranolazine is coadministered. Dose adjustment of other sensitive CYP3A substrates (e.g., lovastatin) and CYP3A substrates with a narrow therapeutic range (e.g., cyclosporine, tacrolimus, sirolimus) may be required as ranolazine extended-release tablets may increase plasma

Drugs Transported by P-gp Concomitant use of ranolazine and digoxin results in increased exposure to digoxin. The dose of digoxin may have to be adjusted [sec Clinical Pharmacology (12.3)].

Drugs Metabolized by CYP2D6 The exposure to CYP2D6 substrates, such as tricyclic antidepressants and antipsychotics, may be increased during co-administration

concentrations of these drugs (see Clinical Pharmacology (12.3))

with ranolazine extended-release tablets, and lower doses of these drugs may be required. Drugs Transported by OCT 2 In subjects with type 2 diabetes mellitus, concomitant use of ranolazine extended-release tablets 1000 mg twice daily and metforming results in increased plasma levels of metformin. When rapplazine extended-release tablets 1000 mg twice daily is co-administered with metformin, metformin dose should not exceed 1700 mg/day. Monitor blood glucose levels and risks associated with high exposu

Metformin exposure was not significantly increased when given with ranolazine extended-release tablets 500 mg twice daily [see Clinical Pharmacology (12.3)].

8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy

There are no available data on ranolazine extended-release tablets use in pregnant women to inform any drug-associated risks. Studies

 $in \ rats \ and \ rabbits \ showed \ no \ evidence \ of \ fetal \ harm \ at \ exposures \ 4 \ times \ the \ maximum \ recommended \ human \ dose \ (MRHD) \ \textit{(see Data)}.$ In the U.S. general population, the estimated background risk of major birth defects and of miscarriage of clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively Data

$Embry of et al \ toxicity \ studies \ were \ conducted \ in \ rats \ and \ rabbits \ or ally \ administered \ ranolazine \ during \ or ganogenesis. \ In \ rats, \ decreased \ or \ and \ rats \ and \ rabbits \ or \ all \ particles \ or \ all \ particl$ fetal weight and reduced ossification were observed at doses (corresponding to 4-fold the AUC for the MRHD) that caused maternal weight loss. No adverse fetal effects were observed in either species exposed (AUC) to ranolazine at exposures (AUC) equal to the MRHD.

8.2 Lactation There are no data on the presence of ranolazine in human milk, the effects on the breastfed infant, or the effects on milk production However, ranolazine is present in rat milk (see Use in Specific Populations (8.1)). The developmental and health benefits of bre should be considered along with the mother's clinical need for ranolazine extended-release tablets and any potential adverse effects on

the breastfed infant from ranolazine extended-release tablets or from the underlying maternal condition Adult female rats were administered ranolazine orally from gestation day 6 through postnatal day 20. No adverse effects on pup development, behavior, or reproduction parameters were observed at a maternal dosage level of 60 mg/kg/day (equal to the MHRD based on AUC). At maternally toxic doses, male and female pups exhibited increased mortality and decreased body weight, and female pups showed increased motor activity. The pups were potentially exposed to low amounts of ranolazine via the maternal milk

Safety and effectiveness have not been established in pediatric patients. 8.5 Geriatric Use Of the chronic angina patients treated with ranolazine extended-release tablets in controlled studies, 496 (48%) were ≥ 65 years of

age, and 114 (11%) were \geq 75 years of age. No overall differences in efficacy were observed between older and younger patients. There were no differences in safety for patients \geq 65 years of age on the patients \geq 65 years of age of the patients of the patients \geq 65 years compared to younger patients, but patients \geq 75 years of age on ranolazine extended-release tablets, compared to placebo, had a higher incidence of adverse events, serious adverse events, and drug discontinuations due to adverse events. In general, dose selection for an elderly patient should usually start at the low end of the dosin range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease, or other drug 8.6 Use in Patients with Hepatic Impairment

Ranolazine extended-release tablets are contraindicated in patients with liver cirrhosis. In a study of cirrhotic patients, the C_{max} of ranolazine was increased 30% in cirrhotic patients with mild (Child-Pugh Class A) hepatic impairment, but increased 80% in cirrhotic patients with moderate (Child-Pugh Class B) hepatic impairment compared to patients without hepatic impairment. This increase was not enough to account for the 3-fold increase in QT prolongation seen in cirrhotic patients with mild to moderate hepatic impairment/se 8.7 Use in Patients with Renal Impairment A pharmacokinetic study of ranolazine extended-release tablets in subjects with severe renal impairment (CrCL < 30 mL/min) was stopped when 2 of 4 subjects developed acute renal failure after receiving ranolazine extended-release tablets 500 mg twice daily for 5

to be a continuous of the cont to severe renal impairment. Discontinue ranolazine extended-release tablets if acute renal failure develops. In a separate study, C..., was increased between 40% and 50% in patients with mild, moderate, or severe renal impairment compared to patients with no renal impairment, suggesting a similar increase in exposure in patients with renal failure independent of the degree of impairment. The pharmacokinetics of ranolazine has not been assessed in patients on dialysis.

days (lead-in phase) followed by 1000 mg twice a day (1 dose in one subject and 11 doses in the other). Increases in creatinine, BUN, and

Heart failure (NYHA Class I to IV) had no significant effect on ranolazine pharmacokinetics. Ranolazine extended-release tablets had

8.8 Use in Patients with Heart Failure

minimal effects on heart rate and blood pressure in patients with angina and heart failure NYHA Class I to IV. No dose adjustment of ranolazine extended-release tablets is required in patients with heart failure. 8.9 Use in Patients with Diabetes Mellitus A population pharmacokinetic evaluation of data from angina patients and healthy subjects showed no effect of diabetes on ranolaz

pharmacokinetics. No dose adjustment is required in patients with diabetes Ranolazine extended-release tablets produces small reductions in HbA1c in patients with diabetes, the clinical significance of which is unknown. Ranolazine extended-release tablets should not be considered a tro

Hypotension, QT prolongation, bradycardia, myoclonic activity, severe tremor, unsteady gait/incoordination, dizziness, nausea, vomiting, dysphasia, and hallucinations have been seen in cases of oral overdose of ranolazine extended-release tablets. In cases of extreme overdose of ranolazine extended-release tablets fatal outcomes have been reported. In clinical studies, high intr oosure resulted in diplopia, paresthesia, confusion, and syncope

xtended-release tablets are available as a film-coated, non-scored, extended-release tablet for oral administration

In addition to general supportive measures, continuous ECG monitoring may be warranted in the event of overdose Since ranolazine is about 62% bound to plasma proteins, hemodialysis is unlikely to be effective in clearing ranolazine 11 DESCRIPTION

$Ranolazine \ is \ a \ racemic \ mixture, \ chemically \ described \ as \ (\pm)N-(2,6-dimethylphenyl)-[4-(2-hydroxy-3-(2-methoxyphenoxylpropyl]piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxyphenoxylpropyl)piperzin-1-(2-methoxyphenoxyp$ yllacetamide. It has an empirical formula of $C_{24}H_{33}N_3O_4$, a molecular weight of 427.55 g/mole, and the following structural formula

Ranolazine is a white to off-white powder. Ranolazine is soluble in dichloromethane.

Ranolazine extended-release tablets contain 500 mg or 1000 mg of ranolazine and the following inactive ingredients: hypromelli agnesium stearate, methacrylic acid and ethyl acrylate copolymer (contains sodium lauryl sulfate and polysorbate 80

Patient Information Ranolazine (ra-NOE-la-zeen) extended-release tablets Dosing Strengths: 500 mg tablets, 1000 mg tablets

Read this Patient Information before you start taking ranolazine extendedrelease tablets and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical condition or treatment.

What are ranolazine extended-release tablets?

Ranolazine extended-release tablets is a prescription medicine used to treat angina that keeps coming back (chronic angina).

Ranolazine extended-release tablets may be used with other medicines that are used for heart problems and blood pressure control.

It is not known if ranolazine extended-release tablets are safe and effective in children.

Who should not take ranolazine extended-release tablets? Do not take ranolazine extended-release tablets if:

you take any of the following medicines:

- o for fungus infection: ketoconazole (Nizoral®), itraconazole (Sporanox®, Onmel[™])
- o for infection: clarithromycin (Biaxin®)
- for depression: nefazodone for HIV: nelfinavir (Viracept®), ritonavir (Norvir®), lopinavir and ritonavir (Kaletra®), indinavir (Crixivan®), saquinavir (Invirase®)
- o for tuberculosis (TB): rifampin (Rifadin®), rifabutin (Mycobutin®), rifapentine (Priftin®)
- o for seizures: phenobarbital, phenytoin (Phenytek®, Dilantin®, Dilantin-125®, carbamazepine (Tegretol®)
- o St. John's wort (Hypericum perforatum) you have scarring (cirrhosis) of your liver

Before you take ranolazine extended-release tablets, tell your doctor if

What should I tell my doctor before taking ranolazine extended-release

· have or have a family history of a heart problem, called 'QT prolongation' or

'long QT syndrome'.

have liver problems.

- have kidney problems. • are pregnant or plan to become pregnant. It is not known if ranolazine extended-release tablets will harm your unborn baby.
- into your breast milk. You and your doctor should decide if you will breast-Tell your doctor about all the medicines you take, including all prescription

and nonprescription medicines, vitamins, and herbal supplements. Ranolazine

extended-release tablets may affect the way other medicines work and other

• are breast-feeding or plan to breast-feed. It is not known if ranolazine passes

medicines may affect how ranolazine extended-release tablets work.

- Tell your doctor if you take medicines:
- for your heart for cholesterol
- for diabetes for infection
- for fungus
- for transplant for nausea and vomiting because of cancer treatments

 for mental problems Know the medicines you take. Keep a list of them to show your doctor or pharmacist when you get a new medicine.

- How should I take ranolazine extended-release tablets?
- Your doctor will tell you how much ranolazine to take and when to take it. • Do not change your dose unless your doctor tells you to. • Tell your doctor if you still have symptoms of angina after starting ranolazine

Take ranolazine extended-release tablets exactly as your doctor tells you.

- extended-release tablets. • Take ranolazine extended-release tablets by mouth, with or without food. Swallow the ranolazine extended-release tablets whole. Do not crush, break. or chew ranolazine extended-release tablets before swallowing.
- If you miss a dose of ranolazine extended-release tablets, wait to take the next dose of ranolazine extended-release tablets at your regular time. Do not make up for the missed dose. Do not take more than 1 dose at a time.

• If you take too much ranolazine, call your doctor, or go to the nearest emergency

- What should I avoid while taking ranolazine extended-release tablets? • Grapefruit and grapefruit juice. Limit products that have grapefruit in them. They can cause your blood levels of ranolazine extended-release tablets to
- increase. Ranolazine extended-release tablets can cause dizziness, lightheadedness, or fainting. If you have these symptoms, do not drive a car, use machinery, or do anything that needs you to be alert.

What are the possible side effects of ranolazine extended-release

Ranolazine extended-release tablets may cause serious side effects, including:

 changes in the electrical activity of your heart called QT prolongation. Your doctor may check the electrical activity of your heart with an ECG. Tell your doctor right away if you feel faint, lightheaded, or feel your heart beating irregularly or fast while taking ranolazine extended-release tablets. These may be symptoms related to QT prolongation.

 kidney failure in people who already have severe kidney problems. Your doctor may need to do tests to check how your kidneys are working.

The most common side effects of ranolazine extended-release tablets include:

 dizziness headache constipation

Tell your doctor if you have any side effect that bothers you or does not go away. These are not all the possible side effects of ranolazine extended-release tablets. For more information, ask your doctor or pharmacist.

Book folding: 35x35 mm

Dimensions: 310 x 500 mm

Spec: 40 GSM Bible Paper, Front & Back printing, Colour: Black





Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store ranolazine extended-release tablets?

Store ranolazine extended-release tablets at room temperature between 68° to

Keep ranolazine extended-release tablets and all medicines out of the reach of children.

General information about ranolazine extended-release tablets.

Medicines are sometimes prescribed for purposes other than those listed in the Patient Information. Do not use ranolazine extended-release tablets for a condition for which it was not prescribed. Do not give ranolazine extendedrelease tablets to other people, even if they have the same condition you have. It may harm them.

The Patient Information summarizes the most important information about ranolazine extended-release tablets. If you would like more information, talk with your doctor. You can ask your pharmacist or doctor for information about ranolazine extended-release tablets that is written for health professionals.

For more information, call Hetero Labs Limited 1-866-495-1995.

What is chronic angina?

Chronic angina means pain or discomfort in the chest, jaw, shoulder, back, or arm that keeps coming back. There are other possible signs and symptoms of angina including shortness of breath. Angina usually comes on when you are active or under stress. Chronic angina is a symptom of a heart problem called coronary heart disease (CHD), also known as coronary artery disease (CAD). When you have CHD, the blood vessels in your heart become stiff and narrow. Oxygen-rich blood cannot reach your heart muscle easily. Angina comes on when too little oxygen reaches your heart muscle.

What are the ingredients in ranolazine extended-release tablets? Active ingredient: ranolazine

Inactive ingredients:

Ranolazine extended-release tablets contain 500 mg or 1000 mg of ranolazine and the following inactive ingredients: hypromellose, magnesium stearate, methacrylic acid and ethyl acrylate copolymer (contains sodium lauryl sulfate and polysorbate 80), microcrystalline cellulose, and sodium hydroxide. In addition, the film coating contains the following inactive ingredients: FD&C blue #1, FD&C blue #2, polyethylene glycol, polyvinyl alcohol, talc and titanium dioxide.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Patient Information available at http://camberpharma.com/medication-guides



Manufactured for: Camber Pharmaceuticals, Inc. Piscataway, NJ 08854

By: HETERO™ Hetero Labs Limited Jeedimetla, Hyderabad - 500 055, India

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Revised: 05/2021

The brands listed are trademarks of their respective owners and are not

microcrystalline cellulose, and sodium hydroxide. In addition, the film coating contains the following inactive ingredients: FD&C blue #1,

12 CLINICAL PHARMACOLOGY

The mechanism of action of ranolazine's antianginal effects has not been determined. Ranolazine has anti-ischemic and antianginal effects that do not depend upon reductions in heart rate or blood pressure. It does not affect the rate-pressure product, a measure of myocardial work, at maximal exercise. Ranolazine at therapeutic levels can inhibit the cardiac late sodium current (I_{in}). However, the relationship of this inhibition to angina symptoms is uncertain.

The QT prolongation effect of ranolazine on the surface electrocardiogram is the result of inhibition of I_{cr}, which prolongs the ventricular

12.2 Pharmacodynamics

Hemodynamic Effects Patients with chronic angina treated with ranolazine extended-release tablets in controlled clinical studies had minimal changes in heart rate (< 2 bpm) and systolic blood pressure (< 3 mm Hg). Similar results were observed in subgroups of patients with CHF NYHA Class I or II, diabetes, or reactive airway disease, and in elderly patients

Electrocardiographic Effects

Dose and plasma concentration-related increases in the QTc interval (see Warnings and Precautions (5.1)), reductions in T wave amplitude, and, in some cases, notched T waves, have been observed in patients treated with ranolazine extended-release t These effects are believed to be caused by ranolazine and not by its metabolites. The relationship between the change in QTc and ranolazine plasma concentrations is linear, with a slope of about 2.6 msec/1000 ng/ml., through exposures corresponding to doses several-fold higher than the maximum recommended dose of 1000 mg twice daily. The variable blood levels attained after a given dose of ranolazine give a wide range of effects on QTc. At T,, following repeat dosing at 1000 mg twice daily, the mean change in QTc is about 6 msec, but in the 5% of the population with the highest plasma concentrations, the prolongation of 0Tc is at least 15 msec. In cirrhotic subjects with mild or moderate hepatic impairment, the relationship between plasma level of ranolazine and 0Tc is much steeper /see Contraindications (4)1.

Age, weight, gender, race, heart rate, congestive heart failure, diabetes, and renal impairment did not alter the slope of the QTc-

 $No proarrhy thmic \ effects \ were \ observed \ on \ 7-day \ Holter \ recordings \ in \ 3,162 \ acute \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ acute \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ acute \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ acute \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ acute \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ acute \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ coronary \ syndrome \ patients \ treated \ with \ ranolazine \ for \ coronary \ syndrome \ patients \ for \ coronary \ syndrome \ for \ syndrome \ for \ coronary \ syndrome \ for \ syndrome \ for$ extended-release tablets. There was a significantly lower incidence of arrhythmias (ventricular tachycardia, bradycardia, supraventricular tachycardia, and new atrial fibrillation) in patients treated with ranolazine extended-release tablets (80%) versus placebo (87%), including ventricular tachycardia \geq 3 beats (52% versus 61%). However, this difference in arrhythmias did not lead to a reduction in mortality, a reduction in arrhythmia hospitalization, or a reduction in arrhythmia symptoms

Ranolazine is extensively metabolized in the gut and liver and its absorption is highly variable. For example, at a dose of 1000 mg twice daily, the mean steady-state C..., was 2600 ng/mL with 95% confidence limits of 400 and 6100 ng/mL. The phramacokinetics of the (+) R- and (-) S-enantiomers of ranolazine are similar in healthy volunteers. The apparent terminal half-life of ranolazine is 7 hours. Steady state is generally achieved within 3 days of twice-daily dosing with ranglazine extended-release tablets. At steady state over the dose range of 500 to 1000 mg twice daily, C_{mx} and AUC_{0z} increase slightly more than proportionally to dose, 2.2- and 2.4-fold, resp With twice-daily dosing, the trough: peak ratio of the ranolazine plasma concentration is 0.3 to 0.6. The pharmacokinetics of ranolazine

Absorption and Distribution

After oral administration of ranolazine extended-release tablets, peak plasma concentrations of ranolazine are reached between 2 and 5 hours. After oral administration of 14C-ranolazine as a solution, 73% of the dose is systemically available as ranolazine or metabolites. nours. Arter una auministration of "aniotazine as a solution", 79 un trie usose is systemicany available as a laniotazine or inetacouries. The bioavailability of ranolazine from ranolazine extended-release tablets relative to that from a solution of ranolazine is 76%. Because ranolazine is a substrate of P-gp, inhibitors of P-gp may increase the absorption of ranolazine.

Food (high-fat breakfast) has no important effect on the C_{max} and AUC of ranolazine. Therefore, ranolazine extended-release tablets may be taken without regard to meals. Over the concentration range of 0.25 to 10 mcg/mL, ranolazine is approximately 62% bound to human plasma proteins

Metabolism and Excretion

Ranolazine is metabolized mainly by CYP3A and, to a lesser extent, by CYP2D6. Following a single oral dose of ranolazine solution, $approximately\ 75\%\ of\ the\ dose\ is\ excreted\ in\ urine\ and\ 25\%\ in\ feces.\ Ranolazine\ is\ metabolized\ rapidly\ and\ extensively\ in\ the\ liver\ and\ approximately\ 75\%\ of\ the\ dose\ is\ excreted\ in\ urine\ and\ 25\%\ in\ feces.\ Ranolazine\ is\ metabolized\ rapidly\ and\ extensively\ in\ the\ liver\ and\ approximately\ a$ intestine; less than 5% is excreted unchanged in urine and feces. The pharmacologic activity of the metabolites has not been wel characterized. After dosing to steady state with 500 mg to 1500 mg twice daily, the four most abundant metabolites in plasma have $AUC\ values\ ranging\ from\ about\ 5\ to\ 33\%\ that\ of\ ranolazine,\ and\ display\ apparent\ half-lives\ ranging\ from\ 6\ to\ 22\ hours.$

Drug Interactions

In vitro data indicate that ranolazine is a substrate of CYP3A and, to a lesser degree, of CYP2D6. Ranolazine is also a substrate of P-

Strong CYP3A Inhibitors

Plasma levels of ranolazine with ranolazine extended-release tablets 1000 mg twice daily are increased by 220% when co-adr with ketoconazole 200 mg twice daily (see Contraindications (4)). Moderate CYP3A Inhibitors

ma levels of ranolazine with ranolazine extended-release tablets 1000 mg twice daily are increased by 50 to 130% by diltiazem 180

to 360 mg, respectively. Plasma levels of ranolazine with ranolazine extended-release tablets 750 mg twice daily are increased by 100% by verapamil 120 mg three times daily [see Drug Interactions (7.1)]. Weak CYP3A Inhibitors The weak CYP3A inhibitors simvastatin (20 mg once daily) and cimetidine (400 mg three times daily) do not increase the exposure to

CYP3A Inducers

Rifampin 600 mg once daily decreases the plasma concentrations of ranolazine (1000 mg twice daily) by approximately 95% (see

Paroxetine 20 mg once daily increased ranolazine concentrations by 20% in healthy volunteers receiving ranolazine extended-release tablets 1000 mg twice daily. No dose adjustment of ranolazine extended-release tablets is required in patients treated with CYP2D6

 $Plasma\ concentrations\ of\ ranolazine\ are\ not\ significantly\ altered\ by\ concomitant\ digoxin\ at\ 0.125\ mg\ once\ daily$

In vitro ranolazine and its 0-demethylated metabolite are weak inhibitors of CYP3A and moderate inhibitors of CYP2D6 and P-gp. In vitro ranolazine is an inhibitor of OCT2. Effect of Ranolazine on Other Drugs

nce of ranolazine extended-release tablets

The plasma levels of simvastatin, a CYP3A substrate, and its active metabolite are increased by 100% in healthy volunteers receiving 80 mg once daily and ranolazine extended-release tablets 1000 mg twice daily [see Drug Interactions (7.2)]. Mean exposure to atorvastatin (80 mg daily) is increased by 40% following co-administration with ranolazine extended-release tablets (1000 mg twice daily) in healthy volunteers. However, in one subject the exposure to atorvastatin and metabolites was increased by $\sim 400\%$ in the

The pharmacokinetics of diltiazem is not affected by ranolazine in healthy volunteers receiving diltiazem 60 mg three times daily and ranolazine extended-release tablets 1000 mg twice daily.

P-gp Substrates

Ranolazine increases dinoxin concentrations by 50% in healthy volunteers receiving ranolazine extended-release tablets 1000 mg twice daily and digoxin 0.125 mg once daily (see Drug Interactions (7.2)).

CYP2D6 Substrate.

Ranolazine extended-release tablets 750 mg twice daily increases the plasma concentrations of a single dose of immediate release metoproloi (10 mg), a CVP206 substrate, by 80% in extensive CYP206 metabolizers with no need for dose adjustment of metoproloi (10 mg), a CVP206 substrate, by 80% in extensive CYP206, ranolazine inhibits partially the formation of the main metaholite dextrorphan

OCT2 Substrates

In subjects with type 2 diabetes mellitus, the exposure to metformin is increased by 40% and 80% following administration of ranolazine 500 mg twice daily and 1000 mg twice daily, respectively. If co-administered with ranolazine extended-release tablets $1000\,mg\,twice\,daily,\,do\,not\,exceed\,met formin\,doses\,of\,1700\,mg/day\,\textit{[see Drug Interactions\,(7.2)]}.$

NONCLINICAL TOXICOLOGY

 $13.1 \quad \textbf{Carcinogenesis}, \textbf{Mutagenesis}, \textbf{Impairment of Fertility}$ Ranolazine tested negative for genotoxic potential in the following assays: Ames bacterial mutation assay, Saccharomyces assay for mitotic gene conversion, chromosomal aberrations assay in Chinese hamster ovary (CHO) cells, mammalian CHO/HGPRT gene mutation

assay, and mouse and rat bone marrow micronucleus assays. There was no evidence of carcinogenic potential in mice or rats. The highest oral doses used in the carcinogenicity studies were 150 $mg/kg/day \ for \ 21 \ months \ in \ rats \ (900 \ mg/m^2/day) \ and \ 50 \ mg/kg/day \ for \ 24 \ months \ in \ mice \ (150 \ mg/m^2/day). \ These \ maximally \ tolerated$ doses are 0.8 and 0.1 times, respectively, the daily maximum recommended human dose (MRHD) of 2000 mg on a surface area basis, A

published study reported that ranolazine promoted tumor formation and progression to malignancy when given to transgenic APC (min/+) mice at a dose of 30 mg/kg twice daily [see References (15)]. The clinical significance of this finding is unclear In male and female rats, oral administration of ranglazine that produced exposures (AUC) approximately 3-fold or 5-fold higher. respectively, than the MRHD had no effect on fertility.

CLINICAL STUDIES 14.1 Chronic Stable Angina

 $CARISA \, (Combination \, Assessment \, of \, Ranolazine \, In \, Stable \, Angina) \, was \, a \, study \, in \, 823 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, to \, receive \, 12 \, chronic \, angina \, patients \, randomized \, randomiz$ weeks of treatment with twice-daily ranolazine extended-release tablets 750 mg, 1000 mg, or placebo, who also continued on daily $doses\ of\ atenolol\ 50\ mg,\ amlo dipine\ 5\ mg,\ or\ diltiazem\ CD\ 180\ mg.\ Sublingual\ nitrates\ were\ used\ in\ this\ study\ as\ needed$

In this trial, statistically significant (p < 0.05) increases in modified Bruce treadmill exercise duration and time to angina were observed for each ranolazine extended-release tablets dose versus placebo, at both trough (12 hours after dosing) and peak (4 hours after dosing) plasma levels, with minimal effects on blood pressure and heart rate. The changes versus placebo in exercise parameters are presented in Table 1. Exercise treadmill results showed no increase in effect on exercise at the 1000 mg dose compared to the 750 mg dose.

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Table 1 Exercise Treadmill Results (CARISA)

Study	CARISA (N=791)	
Ranolazine Extended-release Tablets Twice-daily Dose	750 mg	1000 mg
ercise Duration Trough Peak	24ª 34 ^b	24° 26°
ime to Angina Trough Peak	30° 38°	26° 38°
ime to 1 mm ST-Segment Depression Trough Peak	20 41°	21 35 ^b

 $The \, effects \, of \, ranolazine \, extended \, release \, tablets \, on \, angina \, frequency \, and \, nitroglycerin \, use \, are \, shown \, in \, Table \, 2.$

		Placebo	Ranolazine Extended·release Tablets 750 mg³	Ranolazine Extended-release Tablets 1000 mg³
Angina Frequency (attacks/week)	N	258	272	261
	Mean	3.3	2.5	2.1
	P-value vs placebo		0.006	< 0.001
(doses/week)	N	252	262	244
	Mean	3.1	2.1	1.8
	P-value vs placebo		0.016	< 0.001

a Twice daily

Tolerance to ranolazine extended-release tablets did not develop after 12 weeks of therapy. Rebound increases in angina, as measured by exercise duration, have not been observed following abrupt discontinuation of ranolazine extended-release tablets.

Ranolazine extended-release tablets has been evaluated in patients with chronic angina who remained symptomatic despite treatment with the maximum dose of an antianginal agent. In the ERICA (Efficacy of Ranolazine In Chronic Angina) trial, 565 patients were randomized to receive an initial dose of ranolazine extended-release tablets 500 mg twice daily or placebo for 1 week, followed by 6 weeks of treatment with ranolazine extended-release tablets 1000 mg twice daily or placebo, in addition to concomitant treatment

with amlodipine 10 mg once daily. In addition, 45% of the study population also received long-acting nitrates. Sublingual nitrates were used as needed to treat angina episodes. Results are shown in Table 3. Statistically significant decreases in angina attack frequency (p=0.028) and nitroglycerin use (p=0.014) were observed with ranolazine extended release tablets compared to placebo. These treatment effects appeared consistent across age and use of long-acting nitrates.

Table 3 Angina Frequency and Nitroglycerin Use (ERICA)

		Placebo	Ranolazine Extended-release Tablets
Angina	N	281	277
Frequency	Mean	4.3	3.3
(attacks/week)	Median	2.4	2.2
	N	281	277
Nitroglycerin Use	Mean	3.6	2.7
(doses/week) Median	1.7	1.3	

1000 mg twice daily

Effects on angina frequency and exercise tolerance were considerably smaller in women than in men. In CARISA, the improvement in Exercise Tolerance Test (ETT) in females was about 33% of that in males at the 1000 mg twice-daily dose level. In ERICA, where the primary endpoint was angina attack frequency, the mean reduction in weekly angina attacks was 0.3 for females and 1.3 for males.

There were insufficient numbers of non-Caucasian patients to allow for analyses of efficacy or safety by racial subgroup

14.2 Lack of Benefit in Acute Coronary Syndrome

16 HOW SUPPLIED/STORAGE AND HANDLING

In a large (n = 6,560) placebo-controlled trial (MERLIN-TIMI 36) in patients with acute coronary syndrome, there was no benefit shown on outcome measures. However, the study is somewhat reassuring regarding proarrhythmic risks, as ventricular arrhythmias were less common on ranolazine [see Clinical Pharmacology (12.2]], and there was no difference between ranolazine extended-release tablets and placebo in the risk of all-cause mortality (relative risk ranolazine:placebo 0.99 with an upper 95% confidence limit of 1.22).

15 REFERENCES

M.A. Suckow et al. The anti-ischemia agent ranolazine promotes the development of intestinal tumors in APC (min/+) mice. Cancer Letters 209(2004):165 - 9.

Ranolazine extended-release tablets are supplied in the following strengths

 $Ranolazine\ extended\ release\ tablets, 500\ mg\ are\ blue\ colored,\ oblong\ shaped\ film\ coated\ tablets\ debossed\ with\ 'R18'\ on\ one\ side\ and$ 'H' on the other side. Bottle of 60 tablets NDC 31722-668-60

 $Ranolazine\ extended\ release\ tablets,\ 1000\ mg\ are\ blue\ colored,\ oblong\ shaped\ film\ coated\ tablets\ debossed\ with\ 'R19'\ on\ one\ side\ and$ Bottle of 60 tablets NDC 31722-669-60

Store ranolazine extended-release tablets at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Patient Information)

Inform patients that ranolazine extended-release tablets will not abate an acute angina episode Strong CY3PA Inhibitors, CYP3A Inducers, Liver Cirrhosis Inform patients that ranolazine extended-release tablets should not be used with drugs that are strong CYP3A inhibitors (e.g.,

ketoconazole, clarithromycin, nefazodone, ritonavir) [see Contraindications (4), Drug Interactions (7.1)]. Inform patients that ranolazine extended-release tablets should not be used with drugs that are inducers of CYP3A (e.g.,

- rifampin, rifabutin, rifapentine, barbiturates, carbamazepine, phenytoin, St. John's wort) [see Contraindications (4), Drug Inform patients that ranolazine extended-release tablets should not be used in patients with liver cirrhosis (see Contraindications (4), Use in Specific Populations (8.6)].
- Moderate CYP3A Inhibitors, P-gp Inhibitors, Grapefruit Products Advise patients to inform their physician if they are receiving drugs that are moderate CYP3A inhibitors (e.g., diltiazem,

- verapamil, erythromycin) /see Drug Interactions (7)]. Advise patients to inform their physician if they are receiving drugs that are P-gp inhibitors (e.g., cyclosporine) [see Drug
- Interactions (7)].
- Advise patients to limit grapefruit juice or grapefruit products when taking ranolazine extended-release tablets [see Drug Interactions (7)].
- QT Interval Prolongation Inform patients that ranolazine extended-release tablets may produce changes in the electrocardiogram (QTc interval
- prolongation) [see Warnings and Precautions (5.1)]. Advise patients to inform their physician of any personal or family history of QTc prolongation, congenital long QT syndrome, or if they are receiving drugs that prolong the QTc interval such as Class Ia (e.g., quinidine) or Class III (e.g., dofetilide, sotalol,

amiodarone) antiarrhythmic agents, erythromycin, and certain antipsychotics (e.g., thioridazine, ziprasidone) (see Warnings and Precautions (5.1)1. Use in Patients with Renal Impairment

Patients with severe renal impairment may be at risk of renal failure while on ranolazine extended-release tablets. Advise patients to inform their physician if they have impaired renal function before or while taking ranolazine extended-release tablets (see Warnings and

- Inform patients that ranolazine extended-release tablets may cause dizziness and lightheadedness. Patients should know how
- they react to randazine extended-release tablets before they operate an automobile or machinery, or engage in activities requiring mental alertness or coordination/see Adverse Reactions (6.1). Advise patients to contact their physician if they experience fainting spells while taking ranolazine extended-release tablets.
- Administration
- Instruct nations to swallow ranglazine extended-release tablets whole, with or without meals, and not to crush, break, or chew tablets. Inform patients that if a dose is missed, to take the usual dose at the next scheduled time. The next dose should not be doubled. Inform patients that doses of ranolazine extended-release tablets higher than 1000 mg twice daily should not be used
- Advise patients to inform their physician of any other medications taken concurrently with ranolazine extended-release tablets



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