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Tenormin (atenolol) - Drug Summary

Almatica Pharma, Inc.

Jump to Section

[BOXED WARNING](#)

[THERAPEUTIC CLASS](#)

[DEA CLASS](#)

[ADULT DOSAGE & INDICATIONS](#)

[DOSING CONSIDERATIONS](#)

[View All Sections...](#)

Related Drug Information ▼

Tenormin (atenolol)

**BOXED WARNING**

Avoid abrupt discontinuation of therapy in patients w/ coronary artery disease (CAD). Severe exacerbation of angina and occurrence of MI and ventricular arrhythmias reported in angina patients following abrupt discontinuation w/  $\beta$ -blockers. If planning to d/c therapy, carefully observe and advise to limit physical activity. Promptly reinstitute therapy, at least temporarily, if angina worsens or acute coronary insufficiency develops. CAD may be unrecognized; may be prudent to avoid abrupt discontinuation in patients only treated for HTN.

**THERAPEUTIC CLASS**

Selective beta<sub>1</sub> blocker

**DEA CLASS**

RX

**ADULT DOSAGE & INDICATIONS**

**Hypertension**

**Initial:** 50mg qd, either alone or w/ diuretic therapy  
**Titrate:** May increase to 100mg qd after 1-2 weeks  
**Max:** 100mg qd

**Angina Pectoris**

**Long-term Management:**  
**Initial:** 50mg qd  
**Titrate:** May increase to 100mg qd after 1 week  
**Max:** 200mg qd

**Acute Myocardial Infarction**

Management of hemodynamically stable patients w/ definite/suspected acute MI to reduce cardiovascular mortality

**Usual:** Following IV dose, 50mg 10 min after IV dose followed by 50mg 12 hrs later, then 100mg qd or 50mg bid for 6-9 days or until discharge from the hospital

Atenolol is an additional treatment to standard coronary unit therapy

**DOSING CONSIDERATIONS**

**Renal Impairment**

**Max Dose for CrCl 15-35mL/min:** 50mg/day  
**Max Dose for CrCl <15mL/min:** 25mg/day

**Hemodialysis:**

25mg or 50mg after each dialysis

**HTN:**

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**Initial:** May require a lower dose of 25mg qd

**Elderly**

**HTN:**

**Initial:** May require a lower dose of 25mg qd

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## ADMINISTRATION

Oral route

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## HOW SUPPLIED

Tab: 25mg, 50mg\*, 100mg \*scored

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## CONTRAINDICATIONS

Sinus bradycardia, >1st-degree heart block, cardiogenic shock, overt cardiac failure.

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## WARNINGS/PRECAUTIONS

May cause/precipitate heart failure (HF); d/c if cardiac failure continues despite adequate treatment. Avoid w/ bronchospastic disease; may use w/ caution if unresponsive to/intolerant of other antihypertensive treatment. Chronically administered therapy should not be routinely withdrawn prior to major surgery; however, may augment risks of general anesthesia and surgical procedures. Caution in diabetic patients; may mask tachycardia occurring w/ hypoglycemia. May mask clinical signs of hyperthyroidism and may precipitate thyroid storm w/ abrupt discontinuation. Avoid w/ untreated pheochromocytoma. May cause fetal harm. May aggravate peripheral arterial circulatory disorders.

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## ADVERSE REACTIONS

Tiredness, dizziness, cold extremities, depression, fatigue, dyspnea, postural hypotension, bradycardia, leg pain, lightheadedness, lethargy, diarrhea, nausea, wheeziness.

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## DRUG INTERACTIONS

Additive effects w/ catecholamine-depleting drugs (eg, reserpine), calcium channel blockers, and amiodarone. May cause severe bradycardia, asystole, and HF w/ disopyramide. Bradycardia and heart block can occur and left ventricular end diastolic pressure can rise w/ verapamil or diltiazem. Exacerbates rebound HTN w/ clonidine withdrawal; withdraw  $\beta$ -blocker therapy several days before gradual withdrawal of clonidine or delay introduction of  $\beta$ -blockers for several days after stopping clonidine. Prostaglandin synthase inhibitors (eg, indomethacin) may decrease hypotensive effects. May be unresponsive to usual doses of epinephrine. Concomitant use w/ digitalis glycosides may increase risk of bradycardia.

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## PREGNANCY AND LACTATION

Category D, caution in nursing.

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## MECHANISM OF ACTION

Cardioselective  $\beta$ -adrenoreceptor-blocking agent; not established. Suspected to competitively antagonize catecholamines at peripheral (especially cardiac) adrenergic neuron sites, leading to decreased cardiac output; a central effect leading to reduced sympathetic outflow to the periphery and suppression of renin activity.

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## PHARMACOKINETICS

**Absorption:** Rapid, incomplete;  $T_{max}$ =2-4 hrs. **Distribution:** Plasma protein binding (6-16%); found in breast milk; crosses the placenta. **Elimination:** Urine (approx 50%), feces (unchanged);  $T_{1/2}$ =approx 6-7 hrs.

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## ASSESSMENT

Assess for history of hypersensitivity, bradycardia, cardiogenic shock, >1st-degree heart block, overt cardiac failure, acute MI, renal dysfunction, bronchospastic disease, conduction abnormalities, left ventricular dysfunction, peripheral arterial circulatory disorders, diabetes mellitus, hyperthyroidism, pheochromocytoma, pregnancy/nursing status, and for possible drug interactions.

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## MONITORING

Monitor for signs/symptoms of cardiac failure, for masking of hyperthyroidism/hypoglycemia, and for other adverse reactions. Monitor renal function, pulse, and BP. Following abrupt discontinuation, monitor for thyroid storm and in patients w/ angina, monitor for severe exacerbation of angina, MI, and ventricular arrhythmias.

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## PATIENT COUNSELING

Instruct to take as prescribed. Advise not to interrupt or d/c therapy w/o first consulting physician. Inform that drug may cause fetal harm; instruct to notify physician if pregnant or if considering becoming pregnant.

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## STORAGE

20-25°C (68-77°F).

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