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## Prinivil (lisinopril) - Drug Summary

Merck Sharp &amp; Dohme Corp.

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Prinivil  
(lisinopril)

### BOXED WARNING

D/C when pregnancy is detected. Drugs that act directly on the renin-angiotensin system (RAS) can cause injury and death to the developing fetus.

### THERAPEUTIC CLASS

ACE inhibitor

### DEA CLASS

RX

### ADULT DOSAGE & INDICATIONS

#### Hypertension

**Initial:** 10mg qd or 5mg qd in patients taking diuretics

**Usual Range:** 20-40mg qd. Doses up to 80mg have been used but do not appear to give a greater effect

May add a low-dose diuretic (eg, hydrochlorothiazide 12.5mg) if BP is not controlled

#### Heart Failure

**Reduce Signs/Symptoms in Patients Not Responding Adequately to Diuretics and Digitalis:**
**Adjunct w/ Diuretics and (Usually) Digitalis:**
**Initial:** 5mg qd; 2.5mg qd w/ hyponatremia (serum Na<sup>+</sup> <130mEq/L)

**Max:** 40mg qd

Diuretic dose may need to be adjusted to help minimize hypovolemia

#### Acute Myocardial Infarction

**Reduction of Mortality in Treatment of Hemodynamically Stable Patients w/in 24 Hrs of Acute MI (AMI):** 5mg w/in 24 hrs of onset of symptoms, followed by 5mg after 24 hrs, 10mg after 48 hrs, and then 10mg qd for at least 6 weeks

In patients w/ low systolic BP (SBP) (100-120mmHg) during the first 3 days after infarct, initiate therapy w/ 2.5mg. If hypotension occurs (SBP ≤100mmHg) consider doses of 2.5mg or 5mg. D/C therapy if prolonged hypotension occurs (SBP &lt;90mmHg for &gt;1 hr)

### PEDIATRIC DOSAGE & INDICATIONS

#### Hypertension

**≥6 Years:**
**GFR >30mL/min/1.73m<sup>2</sup>:**
**Initial:** 0.07mg/kg qd (up to 5mg total)

**Titrate:** Adjust dose according to BP response

**Max:** 0.61mg/kg (up to 40mg) qd

### DOSING CONSIDERATIONS


#### Renal Impairment

**CrCl 10-30mL/min:**

Reduce initial dose to 1/2 of the usual recommended dose (eg, HTN, 5mg; heart failure or AMI, 2.5mg)

**Hemodialysis or CrCl <10mL/min:**

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**Initial:** 2.5mg qd

**Pediatric Patients:**  
**GFR <30mL/min/1.73m<sup>2</sup>:** Not recommended

## ADMINISTRATION

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Oral route

## HOW SUPPLIED

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**Tab:** 5mg\*, 10mg\*, 20mg\* \*scored

## CONTRAINDICATIONS

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History of ACE inhibitor-associated angioedema or hypersensitivity, hereditary or idiopathic angioedema. Coadministration w/ aliskiren in patients w/ diabetes.

## WARNINGS/PRECAUTIONS

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Head/neck angioedema reported; d/c and administer appropriate therapy. Patients w/ a history of angioedema unrelated to ACE inhibitor therapy may be at increased risk of angioedema during therapy. Higher rate of angioedema in blacks than nonblacks. Intestinal angioedema reported; monitor for abdominal pain. Anaphylactoid reactions reported during desensitization w/ hymenoptera venom, dialysis w/ high-flux membranes, and LDL apheresis w/ dextran sulfate absorption. May cause changes in renal function, including acute renal failure, especially in patients whose renal function may depend in part on the activity of the RAS; consider withholding or discontinuing therapy if a clinically significant decrease in renal function develops. May cause symptomatic hypotension, sometimes complicated by oliguria, progressive azotemia, acute renal failure, or death; closely monitor patients at risk of excessive hypotension for the first 2 weeks of treatment and whenever therapy and/or diuretic dose is increased. Avoid in patients who are hemodynamically unstable after an AMI. Symptomatic hypotension may occur in patients w/ severe aortic stenosis or hypertrophic cardiomyopathy. Hypotension may occur w/ major surgery or during anesthesia. May cause hyperkalemia; periodically monitor serum K<sup>+</sup> during therapy. Associated w/ a syndrome that starts w/ cholestatic jaundice or hepatitis and progresses to fulminant hepatic necrosis and sometimes death; d/c therapy if jaundice or marked hepatic enzyme elevations develop.

## ADVERSE REACTIONS

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Headache, dizziness, cough, hypotension, chest pain, increased creatinine, hyperkalemia, syncope.

## DRUG INTERACTIONS

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See Contraindications. Initiation of therapy in patients on diuretics may result in excessive reduction of BP. Decrease or d/c diuretic or increase the salt intake prior to initiation of therapy; if this is not possible, reduce the starting dose of lisinopril. Attenuates K<sup>+</sup> loss caused by thiazide-type diuretics. K<sup>+</sup>-sparing diuretics (eg, spironolactone, amiloride, triamterene) may increase hyperkalemia risk; frequently monitor serum K<sup>+</sup> if concomitant use of such agents is indicated. Increased risk of hyperkalemia w/ K<sup>+</sup> supplements or K<sup>+</sup>-containing salt substitutes. May cause an increased blood-glucose-lowering effect w/ risk of hypoglycemia w/ antidiabetic medicines (insulins, oral hypoglycemic agents). NSAIDs, including selective COX-2 inhibitors, may result in deterioration of renal function, including possible acute renal failure in elderly, volume depleted or patients w/ compromised renal function. Antihypertensive effect may be attenuated by NSAIDs. Dual blockade of the RAS is associated w/ increased risks of hypotension, syncope, hyperkalemia, and changes in renal function (including acute renal failure); avoid combined use of RAS inhibitors, and monitor BP, renal function, and electrolytes w/ other agents that affect the RAS. Avoid w/ aliskiren in patients w/ renal impairment (GFR <60mL/min). Lithium toxicity reported; monitor serum lithium levels during concurrent use. Nitritoid reactions reported w/ injectable gold. Increased BUN and SrCr w/ diuretics. Coadministration w/ mTOR inhibitors (eg, temsirolimus, sirolimus, everolimus) may increase risk for angioedema.

## PREGNANCY AND LACTATION

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**Pregnancy:** Category D.

**Lactation:** Not for use in nursing.

## MECHANISM OF ACTION

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ACE inhibitor; decreases plasma angiotensin II, which leads to decreased vasopressor activity and decreased aldosterone secretion.

## PHARMACOKINETICS

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**Absorption:** T<sub>max</sub>=7 hrs (adults), 6 hrs (pediatric patients). **Elimination:** Urine (unchanged); T<sub>1/2</sub>=12 hrs.

## ASSESSMENT

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Assess for hypersensitivity to the drug, hereditary or idiopathic angioedema, history of ACE inhibitor-associated angioedema, risk factors for hyperkalemia, risk of excessive hypotension, renal artery stenosis, severe aortic stenosis or hypertrophic cardiomyopathy, renal impairment, pregnancy/nursing status, and possible drug interactions.

## MONITORING

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Monitor for angioedema, anaphylactoid reactions, hyperkalemia, and other adverse reactions. Monitor BP, LFTs, serum K<sup>+</sup>, and renal function.

## PATIENT COUNSELING

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Inform of pregnancy risks and discuss treatment options for women planning to become pregnant; instruct to report pregnancy to physician as soon as possible. Instruct to immediately report signs/symptoms of

angioedema and to avoid drug until they have consulted w/ prescribing physician. Instruct to report lightheadedness, especially during 1st few days of therapy; if syncope occurs, advise to d/c therapy until physician is consulted. Advise that excessive perspiration, dehydration, and other causes of volume depletion (eg, vomiting, diarrhea) may lead to excessive fall in BP; instruct to consult w/ a physician. Advise not to use salt substitutes containing K<sup>+</sup> w/o consulting physician. Advise diabetic patients treated w/ oral antidiabetic agents or insulin to closely monitor for hypoglycemia, especially during the 1st month of combined use. Instruct to report promptly any indication of infection, which may be a sign of leukopenia/neutropenia.

## STORAGE

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15-30°C (59-86°F). Protect from moisture.

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