



ACE Inhibitors are used by tens of millions of Americans

to treat high blood pressure, heart failure, to prevent repeat heart attacks, and to prevent the decline of kidney function in people with high blood pressure and/or diabetes. The monthly cost for ACEIs varies from less than \$10 to more than \$100. This report gives you information that could save you hundreds of dollars a year or more if you are currently taking a brand-name ACEI.

To help you and your doctor choose the right ACE inhibitor if you need one, *Consumer Reports Health Best Buy Drugs* has evaluated the drugs in this category based on their effectiveness, safety, and cost. This 2-page brief is a summary of a 19-page report you can access for *free* on the Internet at ConsumerReportsHealth.org/BestBuyDrugs. This Web site also has other free reports about other drugs we've analyzed.

DO YOU NEED AN ACE INHIBITOR?

The ACEIs can lower blood pressure. But we recommend starting with a diuretic medication as the initial "first-step" treatment for most people with high blood pressure who do not have heart disease, diabetes, or kidney disease because there is stronger evidence for diuretics that they prevent premature death, heart disease, stroke and other cardiovascular problems. If you are unable to tolerate a diuretic or it does not lower your blood pressure enough, then it may be time to consider an ACE inhibitor.

ACE inhibitors are a first option if you have heart failure with or without high blood pressure. They are also a first option to treat people after a heart attack, as well as people with diabetes (with and without kidney disease). The table below gives you general guidance on blood pressure levels and treatment.

Our Recommendations

ACEIs are effective, life-saving medicines that are generally considered safe. They help lower the risk of both fatal and nonfatal heart attacks and strokes, and kidney failure. And they improve quality of life.

We have selected the following five ACEIs as *Consumer Reports Health Best Buy Drugs* based primarily on the evidence for their effectiveness, but also on dosing convenience and cost in treating the following conditions:

- For high blood pressure: *benazepril*, *enalapril*, and *lisinopril*
- For heart failure: *captopril*, and *enalapril*
- After a heart attack: *lisinopril*
- For diabetics: *ramipril*
- For people with kidney disease: *benazepril*, and *ramipril*

All of these medicines are low-cost or moderately-priced generics. All have been proven to be just as effective or superior to other ACEIs in treating the general population.

ACE inhibitors are generally safe medicines, but they can cause side effects, including a persistent dry cough, fatigue, weakness, dizziness, and potassium imbalance. They can also cause a rare but life-threatening swelling of the windpipe. You can often minimize side effects by taking the lowest dose that is effective for you.

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Our independent evaluations are based on scientific reviews conducted by the Oregon Health and Science University-based Drug Effectiveness Review Project. These materials were made possible by a grant from the state Attorney General Consumer and Prescriber Education Grant Program, which is funded by the multi-state settlement of consumer fraud claims regarding the marketing of the prescription drug Neurontin (gabapentin).

Blood Pressure Levels and Treatment Guidance

Blood Pressure Classification	Systolic Measure (mm Hg)	Diastolic Measure (mm Hg)	General Treatment Guidance
Normal	Below 120	Below 80	<ul style="list-style-type: none"> ■ No treatment needed ■ Healthy lifestyle encouraged to maintain normal blood pressure
Prehypertensive	120-139	80-89	<ul style="list-style-type: none"> ■ Lifestyle changes needed: weight loss, quitting smoking, low-salt and low-fat diet, curb excessive alcohol use, and increased exercise ■ Drug treatment not indicated except if you have diabetes, kidney, or heart disease
Stage 1 High Blood Pressure	140-159	90-99	<ul style="list-style-type: none"> ■ Lifestyle changes urged, same as above ■ Drug treatment needed. Doctor may start with one medicine (usually a diuretic) to see if it works
Stage 2 High Blood Pressure	160 or above	100 or above	<ul style="list-style-type: none"> ■ Contact your doctor immediately ■ Drug treatment needed. Two or more medicines usually required to bring blood pressure down ■ Lifestyle changes, as described above, are a critical component of your treatment

Source: Chobanian AV, Bakris GL, Black HR, et al., "The seventh report of the Joint National Committee on prevention, detection, evaluation and treatment of high blood pressure," *Journal of the American Medical Association*, 2003; 289(19):2560-2572

ACE Inhibitor Comparison and Best Buy Indication—Examples*

\$ indicates the dose of that drug is available for a low monthly cost through programs offered by chain stores. For example, Kroger, Sam's Club, Target, and Walmart offer a month's supply of selected generic drugs for \$4 or a three-month supply for \$10. Other stores, such as Costco, CVS, Kmart, and Walgreens, offer similar programs. Some programs have restrictions or membership fees, so check the details carefully for restrictions and to make sure your drug is covered.

Generic name, dosage strength, and form	Brand Name ¹	Frequency of Use (per day)	Total Daily Dose	Average Monthly Cost ²	Best Buy Indication
Benazepril 10 mg tablet	Lotensin	One	10 mg	\$76	
CR BEST BUY Benazepril 10 mg tablet	Generic	One	10 mg	\$8	High blood pressure, for people with kidney disease
Benazepril 20 mg tablet	Lotensin	One	20 mg	\$69	
CR BEST BUY Benazepril 20 mg tablet	Generic	One	20 mg	\$8 \$	High blood pressure, for people with kidney disease
Benazepril 40 mg tablet	Lotensin	One	40 mg	\$69	
CR BEST BUY Benazepril 40 mg tablet	Generic	One	40 mg	\$7 \$	High blood pressure, for people with kidney disease
CR BEST BUY Captopril 12.5 mg tablet	Generic	Three	37.5 mg	\$21 \$	Heart failure
CR BEST BUY Captopril 25 mg tablet	Generic	Three	75 mg	\$19 \$	Heart failure
CR BEST BUY Captopril 50 mg tablet	Generic	Three	150 mg	\$57 \$	Heart failure
CR BEST BUY Captopril 100 mg tablet	Generic	Three	300 mg	\$54 \$	Heart failure
Enalapril 5 mg tablet	Vasotec	One	5 mg	\$91	
CR BEST BUY Enalapril 5 mg tablet	Generic	One	5 mg	\$8 \$	High blood pressure, heart failure
Enalapril 10 mg tablet	Vasotec	One	10 mg	\$96	
CR BEST BUY Enalapril 10 mg tablet	Generic	One	10 mg	\$8 \$	High blood pressure, heart failure
Enalapril 20 mg tablet	Vasotec	One	20 mg	\$134	
CR BEST BUY Enalapril 20 mg tablet	Generic	One	20 mg	\$15 \$	High blood pressure, heart failure
Lisinopril 5 mg tablet	Prinivil	One	5 mg	\$41	
CR BEST BUY Lisinopril 5 mg tablet	Generic	One	5 mg	\$7 \$	Heart attack, high blood pressure
Lisinopril 10 mg tablet	Prinivil	One	10 mg	\$46	
CR BEST BUY Lisinopril 10 mg tablet	Generic	One	10 mg	\$6 \$	Heart attack, high blood pressure
Lisinopril 20 mg tablet	Prinivil	One	20 mg	\$48	
CR BEST BUY Lisinopril 20 mg tablet	Generic	One	20 mg	\$7 \$	Heart attack, high blood pressure
CR BEST BUY Lisinopril 30 mg tablet	Generic	One	30 mg	\$18 \$	Heart attack, high blood pressure
Lisinopril 40 mg tablet	Zestril	One	40 mg	\$85	
CR BEST BUY Lisinopril 40 mg tablet	Generic	One	40 mg	\$17 \$	Heart attack, high blood pressure
Perindopril 4 mg tablet	Generic	One	2 mg	\$54	
CR BEST BUY Ramipril 1.25 mg capsule	Generic	One	1.25 mg	\$36	For people with diabetes or kidney disease
Ramipril 2.5 mg capsule	Altace	One	2.5 mg	\$87	
CR BEST BUY Ramipril 2.5 mg capsule	Generic	One	2.5 mg	\$36	For people with diabetes or kidney disease
Ramipril 5 mg capsule	Altace	One	5 mg	\$90	
CR BEST BUY Ramipril 5 mg capsule	Generic	One	5 mg	\$36	For people with diabetes or kidney disease
Ramipril 10 mg capsule	Altace	One	10 mg	\$101	
CR BEST BUY Ramipril 10 mg capsule	Generic	One	10 mg	\$39	For people with diabetes or kidney disease
Trandolapril 2 mg tablet	Mavik	One	2 mg	\$52	
Trandolapril 2 mg tablet	Generic	One	2 mg	\$35 \$	

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* Selected drugs and dosages only. For a complete price list of ACE inhibitors, go to ConsumerReportsHealth.org/BestBuyDrugs to download the free, full 19-page report.

1 "Generic" indicates that this drug is sold under its generic name. For example, in this table, the first drug listed is available as both generic benazepril and as brand-name Lotensin. Both have the same active ingredient. When column 2 says "generic," the price listed is for the generic version at the specified dose.

2. Prices reflect nationwide retail average for January 2011, rounded to the nearest dollar. Information derived by *Consumer Reports Health Best Buy Drugs* from data provided by Wolters Kluwer Pharma Solutions, which is not involved in our analysis or recommendations.