PATIENT & CAREGIVER EDUCATION

Ramipril

This information from UpToDate® Lexidrug™ explains what you need to know about this medication, including what it's used for, how to take it, its side effects, and when to call your healthcare provider.

Brand Names: US

Altace [DSC]

Brand Names: Canada

AG-Ramipril; Altace; APO-Ramipril; Auro-Ramipril; JAMP-Ramipril; Mar-Ramipril; MINT-Ramipril; NRA-Ramipril; Pharma-Ramipril; PMSC-Ramipril; PRO-Ramipril-1.25; PRO-Ramipril-10; PRO-Ramipril-2.5; PRO-Ramipril-5; TARO-Ramipril; TEVA-Ramipril

Warning

- Do not take if you are pregnant. Use during pregnancy may cause birth defects or loss of the unborn baby. If you get pregnant or plan on getting pregnant while taking this drug, call your doctor right away.

What is this drug used for?

- It is used to treat high blood pressure.
- It is used to help heart function after a heart attack.
- It is used to lower the chance of heart attack, stroke, and death in some people.
- It may be given to you for other reasons. Talk with the doctor.

What do I need to tell my doctor BEFORE I take this drug?

- If you are allergic to this drug; any part of this drug; or any other drugs, foods, or substances. Tell your doctor about the allergy and what signs you had.
- If you have ever had a very bad or life-threatening reaction called angioedema. Signs may be swelling of the hands, face, lips, eyes, tongue, or throat; trouble breathing; trouble swallowing; unusual hoarseness.

- If you are taking a drug that has aliskiren in it and you also have diabetes or kidney problems.
- If you are taking telmisartan.
- If you are using another drug like this one. If you are not sure, ask your doctor or pharmacist.
- If you have taken a drug that has sacubitril in it in the last 36 hours.
- If you are breast-feeding. Do not breast-feed while you take this drug.

This is not a list of all drugs or health problems that interact with this drug.

Tell your doctor and pharmacist about all of your drugs (prescription or OTC, natural products, vitamins) and health problems. You must check to make sure that it is safe for you to take this drug with all of your drugs and health problems. Do not start, stop, or change the dose of any drug without checking with your doctor.

What are some things I need to know or do while I take this drug?

- Tell all of your health care providers that you take this drug. This includes your doctors, nurses, pharmacists, and dentists.
- Avoid driving and doing other tasks or actions that call

for you to be alert until you see how this drug affects you.

- To lower the chance of feeling dizzy or passing out, rise slowly if you have been sitting or lying down. Be careful going up and down stairs.
- If you have high blood sugar (diabetes), you will need to watch your blood sugar closely.
- Have blood work, blood pressure, and other lab tests checked as you have been told by the doctor.
- If you are taking a salt substitute that has potassium in it, a potassium-sparing diuretic, or a potassium product, talk with your doctor.
- If you are on a low-salt or salt-free diet, talk with your doctor.
- Low white blood cell counts have happened with captopril, a drug like this one. This may lead to more chance of getting an infection. Most of the time, this has happened in people with kidney problems, mainly if they have certain other health problems. Call your doctor right away if you have signs of infection like fever, chills, or sore throat.
- If you are taking this drug and have high blood pressure, talk with your doctor before using OTC products that may raise blood pressure. These include cough or cold

drugs, diet pills, stimulants, non-steroidal anti-inflammatory drugs (NSAIDs) like ibuprofen or naproxen, and some natural products or aids.

- Talk with your doctor before you drink alcohol.
- Be careful in hot weather or while being active. Drink lots of fluids to stop fluid loss.
- Tell your doctor if you have too much sweat, fluid loss, throwing up, or loose stools. This may lead to low blood pressure.
- A severe and sometimes deadly reaction called angioedema has happened with this drug and other drugs like it. This can happen at any time during treatment. The chance of angioedema may be higher in Black patients.
- If you are 65 or older, use this drug with care. You could have more side effects.

What are some side effects that I need to call my doctor about right away?

WARNING/CAUTION: Even though it may be rare, some people may have very bad and sometimes deadly side effects when taking a drug. Tell your doctor or get medical help right away if you have any of the following signs or symptoms that may be related to a very bad side effect:

- Signs of an allergic reaction, like rash; hives; itching; red,

swollen, blistered, or peeling skin with or without fever; wheezing; tightness in the chest or throat; trouble breathing, swallowing, or talking; unusual hoarseness; or swelling of the mouth, face, lips, tongue, or throat.

- Signs of kidney problems like unable to pass urine, change in how much urine is passed, blood in the urine, or a big weight gain.
- Signs of high potassium levels like a heartbeat that does not feel normal; feeling confused; feeling weak, lightheaded, or dizzy; feeling like passing out; numbness or tingling; or shortness of breath.
- Severe dizziness or passing out.
- Cough that does not go away.
- Severe stomach pain.
- Severe upset stomach or throwing up.
- Liver problems have happened with drugs like this one. Rarely, this has been deadly. Call your doctor right away if you have signs of liver problems like dark urine, tiredness, decreased appetite, upset stomach or stomach pain, light-colored stools, throwing up, or yellow skin or eyes.

What are some other side effects of this drug?

All drugs may cause side effects. However, many people have no side effects or only have minor side effects. Call your doctor or get medical help if any of these side effects or any other side effects bother you or do not go away:

- Dizziness or headache.
- Cough.
- Feeling tired or weak.

These are not all of the side effects that may occur. If you have questions about side effects, call your doctor. Call your doctor for medical advice about side effects.

You may report side effects to your national health agency.

You may report side effects to the FDA at 1- 800-332-1088. You may also report side effects at https://www.fda.gov/medwatch.

How is this drug best taken?

Use this drug as ordered by your doctor. Read all information given to you. Follow all instructions closely.

All products:

- Take with or without food.
- Take this drug at the same time of day.

Capsules:

- Keep taking this drug as you have been told by your doctor or other health care provider, even if you feel well.
- Swallow whole. Do not chew or crush.
- You may sprinkle contents of capsule on applesauce or in apple juice. Do not chew.
- You may sprinkle contents of capsule into a glass of water.
- If needed, you can mix a dose for future use. After mixing, you may store a mixture for up to 24 hours at room temperature or up to 48 hours in the refrigerator.
- Drink lots of noncaffeine liquids unless told to drink less liquid by your doctor.

Oral solution:

- Measure liquid doses carefully. Use the measuring device that comes with this drug. If there is none, ask the pharmacist for a device to measure this drug.

What do I do if I miss a dose?

- Take a missed dose as soon as you think about it.
- If it is close to the time for your next dose, skip the missed dose and go back to your normal time.
- Do not take 2 doses at the same time or extra doses.

How do I store and/or throw out this drug?

Capsules:

- Store at room temperature in a dry place. Do not store in a bathroom.

Oral solution:

- Store unopened containers in a refrigerator. Do not freeze.
- Store opened containers at room temperature. Throw away any part not used after 60 days.

All products:

- Keep all drugs in a safe place. Keep all drugs out of the reach of children and pets.
- Throw away unused or expired drugs. Do not flush down a toilet or pour down a drain unless you are told to do so. Check with your pharmacist if you have questions about the best way to throw out drugs. There may be drug take-back programs in your area.

General drug facts

- If your symptoms or health problems do not get better or if they become worse, call your doctor.
- Do not share your drugs with others and do not take anyone else's drugs.
- Some drugs may have another patient information leaflet. If you have any questions about this drug, please talk with your doctor, nurse, pharmacist, or other health care provider.
- Some drugs may have another patient information leaflet. Check with your pharmacist. If you have any questions about this drug, please talk with your doctor, nurse, pharmacist, or other health care provider.
- If you think there has been an overdose, call your poison control center or get medical care right away. Be ready to tell or show what was taken, how much, and when it happened.

Consumer Information Use and Disclaimer

This generalized information is a limited summary of diagnosis, treatment, and/or medication information. It is not meant to be comprehensive and should be used as a tool to help the user understand and/or assess potential diagnostic and treatment options. It does NOT include all information about conditions, treatments, medications,

side effects, or risks that may apply to a specific patient. It is not intended to be medical advice or a substitute for the medical advice, diagnosis, or treatment of a health care provider based on the health care provider's examination and assessment of a patient's specific and unique circumstances. Patients must speak with a health care provider for complete information about their health, medical questions, and treatment options, including any risks or benefits regarding use of medications. This information does not endorse any treatments or medications as safe, effective, or approved for treating a specific patient. UpToDate, Inc. and its affiliates disclaim any warranty or liability relating to this information or the use thereof. The use of this information is governed by the Terms of Use, available at https://www.wolterskluwer.com/en/know/clinical-effectiveness-terms.

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If you have questions or concerns, contact your healthcare provider. A member of your care team will answer Monday through Friday from 9 a.m. to 5 p.m. Outside those hours, you can leave a message or talk with another MSK provider. There is always a doctor or nurse on call. If you're not sure how to reach your healthcare provider, call 212-639-2000.

For more resources, visit www.mskcc.org/pe to search our virtual library.

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