



PATIENT & CAREGIVER EDUCATION

Ruxolitinib (Systemic

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

Jakafi; Jakafi XR

Brand Names: Canada

Jakavi

What is this drug used for?

- It is used to treat myelofibrosis.
- It is used to treat polycythemia vera.
- It is used to treat graft-versus-host disease (GVHD).

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 an infection.

- If you have any of these health problems: Kidney disease or liver disease.
- If you have any of these health problems: Low white blood cell count, low platelet count, or low red blood cell count.
- If you are taking fluconazole.
- If you are breast-feeding. Do not breast-feed while you take this drug and for 2 weeks after your last dose.

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.
- Have your blood work and skin checked as you have been told by your doctor.

- If you have high blood sugar (diabetes), you will need to watch your blood sugar closely.
- Treatment with this drug may lead to higher cholesterol and triglycerides. The effect of these changes on heart health is not known. Talk with the doctor.
- You may have more chance of getting an infection. Wash hands often. Stay away from people with infections, colds, or flu.
- Some viral infections like herpes zoster (shingles) and herpes simplex have become active again with this drug. Tell your doctor if you have ever had a viral infection like herpes zoster or herpes simplex. Talk with your doctor.
- You may bleed more easily. Be careful and avoid injury. Use a soft toothbrush and an electric razor.
- If you have had TB (tuberculosis) or have been close to someone who has TB, talk with your doctor.
- If you drink grapefruit juice or eat grapefruit often, talk with your doctor.
- A study of a drug like this one in people with rheumatoid arthritis showed a higher risk of heart attack, stroke, blood clots, and death. These people were at least 50 years of age with at least 1 heart disease risk factor. It is not known if the raised risk happens with this drug.
- Lymphoma and other types of cancer have happened in

studies of a drug like this one in people with rheumatoid arthritis. People who have smoked or had cancer in the past may have a higher risk. If you have questions, talk with the doctor.

- Tell your doctor if you smoke, have smoked in the past, or have ever had a heart attack, other heart problems, stroke, or blood clot.
- Some patients have had severe health problems after stopping this drug. Do not stop taking this drug without calling your doctor. Call your doctor right away if you stop this drug and you have a fever, trouble breathing, signs of low blood pressure like severe dizziness or passing out, or any bruising or bleeding. Call your doctor right away if you stop this drug and you have signs of organ problems like a change in how much urine is passed, dark urine, tiredness, decreased appetite, upset stomach or stomach pain, light-colored stools, throwing up, or yellow skin or eyes. You may need to start taking this drug again.
- Tell your doctor if you are pregnant or plan on getting pregnant. You will need to talk about the benefits and risks of using this drug while you are pregnant.

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 infection like fever, chills, or sweating; cough; muscle aches; shortness of breath; more sputum or change in color of sputum; red, warm, swollen, painful, or blistered skin; weight loss; stomach pain; diarrhea; pain with passing urine; or passing urine more often.
- Signs of shingles like pain, itching, or tingling; fever; muscle aches; or rash (with or without blisters).
- Signs of bleeding like throwing up or coughing up blood; vomit that looks like coffee grounds; blood in the urine; black, red, or tarry stools; bleeding from the gums; abnormal vaginal bleeding; bruises without a cause or that get bigger; or bleeding you cannot stop.

- Signs of high blood pressure like very bad headache or dizziness, passing out, or change in eyesight.
- Signs of low blood sugar like dizziness, headache, feeling sleepy, feeling weak, shaking, a fast heartbeat, confusion, hunger, or sweating.
- Upset stomach or throwing up.
- Shortness of breath.
- Feeling tired or weak.
- Swelling.
- Swollen gland, night sweats, shortness of breath, or weight loss without trying.
- Certain types of skin cancer have happened in people taking this drug. Call your doctor right away if you have a change in color or size of a mole, or any new or changing skin lump or growth.
- A severe brain problem called progressive multifocal leukoencephalopathy (PML) has happened with this drug. It may cause disability or can be deadly. Tell your doctor right away if you have signs like confusion, memory problems, depression, change in the way you act, change in strength on 1 side is greater than the other, trouble speaking or thinking, change in balance, or change in eyesight.

- Blood clots may happen with this drug. These may include heart attack, stroke, and clots in the legs or lungs. Call your doctor right away if you have chest, arm, back, neck, or jaw pain or pressure. Call your doctor if you cough up blood or have dizziness; cold sweats; numbness or weakness on 1 side of your body; drooping on 1 side of the face; trouble speaking or thinking; change in balance; change in eyesight; shortness of breath; or swelling, warmth, or pain in the leg or arm.

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:

- Diarrhea or constipation.
- Dizziness or headache.
- Muscle spasm.
- Muscle pain.
- Weight gain.
- Gas.

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:

- Keep taking this drug as you have been told by your doctor or other health care provider, even if you feel well.
- Take with or without food.

Tablet:

- Those who have feeding tubes may also use the tablet. Mix each tablet with 40 mL of water. Stir for 10 minutes. Give within 6 hours of mixing. Flush the feeding tube with water before and after this drug is given.
- If you are on dialysis and are taking this drug on the day you get dialysis, take it after your dialysis. If you have questions, talk with your doctor.

Extended-release tablets:

- Swallow whole. Do not chew, break, or crush.

What do I do if I miss a 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?

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

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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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