



## PATIENT & CAREGIVER EDUCATION

# Mitoxantrone

This information from Lexicomp<sup>®</sup> 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.

### Warning

- This drug may cause severe heart problems like heart failure. This can happen during treatment or years after your last dose. Sometimes, these problems will not go away or may be deadly. The chance may be higher if you have ever had heart problems or chest area radiation, or are using other drugs that may cause heart problems. The chance may be higher if you have ever had this drug or other drugs like this one. Ask your doctor if you are not sure if any of your drugs may cause heart problems. The chance of heart problems depends on the dose of this drug and your health problem. In children, the chance of heart problems later in life is higher. Heart problems may happen even without any risk factors. Call your

doctor right away if you have cough; chest pain; fast, slow, or abnormal heartbeat; swelling in the arms or legs, shortness of breath, or sudden weight gain; or feeling very tired or weak.

- Have your blood work and heart function checked as you have been told by your doctor.
- If you have heart disease, talk with your doctor.
- If you have a low white blood cell count, talk with your doctor. This drug must not be used in certain people with low white blood cell counts.
- This drug may raise the chance of getting a type of cancer called acute myeloid leukemia (AML). If you have questions, talk with the doctor.
- This drug may cause tissue damage if the drug leaks from the vein. Tell your nurse if you have any redness, burning, pain, swelling, blisters, skin sores, or leaking of fluid where the drug is going into your body.
- This drug must not be given into the spine.

## What is this drug used for?

- It is used to treat prostate cancer.
- It is used to treat a type of leukemia.

- It is used to treat MS (multiple sclerosis).
- 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? For all uses of 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 liver disease or raised liver enzymes.
- If you are breast-feeding. Do not breast-feed while you take this drug.

## **Cancer treatment:**

- If you have had chemo treatments before and you still have blood problems from those treatments.

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?

### For all uses of this drug:

- Tell all of your health care providers that you take this drug. This includes your doctors, nurses, pharmacists, and dentists.
- This drug may lower the ability of the bone marrow to make blood cells that the body needs. If blood cell counts get very low, this can lead to bleeding problems, infections, or anemia. If you have questions, 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.
- You may bleed more easily. Be careful and avoid injury. Use a soft toothbrush and an electric razor.
- If you have had daunorubicin, doxorubicin, epirubicin, idarubicin, or mitoxantrone before, talk with your doctor.
- Talk with your doctor before getting any vaccines. Use of some vaccines with this drug may either raise the chance of an infection or make the vaccine not work as well.
- If you are allergic to sulfites, talk with your doctor. Some

products have sulfites.

- If you are 65 or older, use this drug with care. You could have more side effects.
- This drug may cause harm to an unborn baby. A pregnancy test will be done before you start this drug to show that you are NOT pregnant.
- If you may become pregnant, use birth control while taking this drug. If you get pregnant, call your doctor right away.

### **For patients taking this drug to treat MS (multiple sclerosis):**

- This drug is not a cure for MS (multiple sclerosis). Stay under the care of your doctor.

### **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, very bad sore throat, ear or sinus pain, cough, more sputum or change in color of sputum, pain with passing urine, mouth sores, or wound that will not heal.
- Signs of a urinary tract infection (UTI) like blood in the urine, burning or pain when passing urine, feeling the need to pass urine often or right away, fever, lower stomach pain, or pelvic pain.
- 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 kidney problems like unable to pass urine, change in how much urine is passed, blood in the urine, or a big weight gain.
- Yellow skin or eyes.
- Bone pain.
- Blue or gray color of the skin, lips, nail beds, fingers, or toes.
- Call your doctor right away if you have a swollen gland, night sweats, shortness of breath, or weight loss without

trying.

## **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:

- Change in color of body fluids (urine) to blue or green for about 24 hours after getting this drug. This is normal and not a cause for concern.
- Blue coloring of the whites of the eyes for about 24 hours after getting this drug. This is normal and not a cause for concern.
- Hair thinning or loss.
- Constipation.
- Stomach pain.
- Headache.
- Mouth irritation or mouth sores.
- Feeling tired or weak.
- Back pain.
- Signs of a common cold.
- Weight loss.
- No menstrual period.

- Period (menstrual) changes.
- Diarrhea, throwing up, upset stomach, and decreased appetite are common with this drug. If these happen, talk with your doctor about ways to lower these side effects. Call your doctor right away if any of these effects bother you, do not get better, or are severe.

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.

- It is given as an infusion into a vein over a period of time.

### **What do I do if I miss a dose?**

- Call your doctor to find out what to do.

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

- If you need to store this drug at home, talk with your doctor, nurse, or pharmacist about how to store it.

## 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.
- 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.
- 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.
- This drug comes with an extra patient fact sheet called a Medication Guide. Read it with care. Read it again each time this drug is refilled. If you have any questions about this drug, please talk with the doctor, 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>.

## Last Reviewed Date

2024-10-25

## Copyright

© 2026 UpToDate, Inc. and its affiliates and/or licensors. All rights reserved.

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](http://www.mskcc.org/pe) to search our virtual library.

---

Mitoxantrone - Last updated on December 12, 2022

All rights owned and reserved by Memorial Sloan Kettering Cancer Center