PATIENT & CAREGIVER EDUCATION

Azacitidine

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

Onureg; Vidaza

Brand Names: Canada

NAT-AzaCITIDine [DSC]; Onureg; REDDY-Azacitidine [DSC]; Vidaza

What is this drug used for?

Injection:

- It is used to treat a health problem called myelodysplastic syndrome (MDS).
- It is used to treat a type of leukemia.

Tablets:

- It is used to treat a type of leukemia.
- This drug is not approved to treat myelodysplastic syndrome (MDS). If you have MDS, talk with your 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 liver tumors.

- If you are breast-feeding. Do not breast-feed while you take this drug and for 1 week 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?

All products:

- 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 other lab tests checked as you have been told by your doctor.
- 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 of a chance of getting an infection. Rarely, some infections have been deadly. 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.
- 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 65 or older, use this drug with care. You could have more side effects.
- This drug may affect fertility. Fertility problems may lead to not being able

to get pregnant or father a child. If you plan to get pregnant or father a child, talk with your doctor before taking this drug.

- 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 and for at least 6 months after your last dose. If you become pregnant, call the doctor right away.
- If your sex partner may become pregnant, use birth control while taking this drug. You will also need to use birth control for at least 3 months after your last dose. You may be told to use it longer. Be sure you know how long to use birth control. If your partner gets pregnant, call the doctor right away.

Injection:

- This drug may cause liver problems to get worse in people who already have liver problems. Talk with your doctor if you have liver problems.
- Very bad and sometimes deadly kidney problems have happened in people getting this drug along with other cancer drugs for other health problems. Talk with the 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:

All products:

- 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 skin infection like oozing, heat, swelling, redness, or pain.
- 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.
- Chest pain or pressure.
- Shortness of breath.
- Patients with cancer who take this drug may be at a greater risk of getting a severe health problem called tumor lysis syndrome (TLS). This may lead to death. Call your doctor right away if you have a fast or abnormal heartbeat; any passing out; trouble passing urine; muscle weakness or cramps; upset stomach, throwing up, diarrhea, or not able to eat; or feel sluggish.

Injection:

- 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.
- 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 low potassium levels like muscle pain or weakness, muscle cramps, or a heartbeat that does not feel normal.
- Signs of high or low blood pressure like very bad headache or dizziness, passing out, or change in eyesight.
- Pinpoint red spots on the skin.
- Swelling.
- A very bad skin problem (necrotizing fasciitis) has happened in people

taking this drug. Sometimes, this has been deadly. Call your doctor right away if your skin is warm with red or purple areas of swelling that spread quickly. Call your doctor right away if you have ulcers, blisters, black spots on the skin, or any other skin changes that concern you.

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:

All products:

- Feeling dizzy, tired, or weak.
- Signs of a common cold.
- Stomach pain.
- Constipation, diarrhea, upset stomach, throwing up, 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.

Injection:

- Mouth irritation or mouth sores.
- Trouble sleeping.
- Headache.
- Irritation where the shot is given.
- Dry skin.
- Nose or throat irritation.
- Muscle or joint pain.
- Anxiety.
- Weight loss.

Tablets:

- Joint pain.
- Pain in arms or legs.

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.

Injection:

- It is given as a shot into the fatty part of the skin.
- It is given as an infusion into a vein over a period of time.
- Other drugs may be given before this drug to help avoid side effects.

Tablets:

- Take with or without food.
- Swallow whole. Do not chew, break, or crush.
- Take this drug at the same time of day.
- You will need to take special care when handling this drug. Check with the doctor or pharmacist to see how to handle this drug.
- Other drugs may be given before this drug to help avoid side effects.
- If you throw up after taking a dose, do not repeat the dose. Take your next dose at your normal time.

- If you get the powder from the tablets on the skin, wash it off right away with soap and water. If you get the powder in the eyes or mouth, rinse right away with water.

What do I do if I miss a dose?

Injection:

- Call your doctor to find out what to do.

Tablets:

- Take a missed dose as soon as you think about it on the same day you missed the dose.
- If you do not think about the missed dose until the next day, skip the missed dose and go back to your normal time.
- Do not take 2 doses on the same day.

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

Injection:

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

Tablets:

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

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.

Last Reviewed Date

2026-07-09

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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.

Azacitidine - Last updated on December 12, 2022
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