PATIENT & CAREGIVER EDUCATION

# Sodium Nitrite and Sodium Thiosulfate

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

Nithiodote

## Warning

- This drug may cause low blood pressure and a red blood cell problem called methemoglobinemia. These may be life-threatening. This drug is only for use when cyanide poisoning is life-threatening. If it is not known if cyanide poisoning has happened, talk with the doctor.
- Tell the doctor if your child has inhaled a lot of smoke or if your child has any of these health problems: Anemia, heart problems, lack of a certain enzyme called congenital methemoglobin reductase deficiency, or lung problems.

## What is this drug used for?

- It is used to treat cyanide poisoning.

## What do I need to tell the doctor BEFORE my child takes this drug?

- If your child is allergic to this drug; any part of this drug; or any other drugs, foods, or substances. Tell the doctor about the allergy and what signs your child had.

## If your child is breast-feeding a baby:

- Be sure your child does not breast-feed a baby while taking this drug.

This drug may interact with other drugs or health problems.

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

## What are some things I need to know or do while my child takes this drug?

- Tell all of your child's health care providers that your child is taking this drug. This includes your child's doctors, nurses, pharmacists, and dentists.
- Have your child's blood work and other lab tests checked as you have been told by the doctor.
- Have your child's blood pressure checked as you have been told.
- Be careful if your child has low levels of an enzyme called G6PD. Anemia may happen. Low levels of G6PD may be more likely in patients of African, South Asian, Middle

Eastern, and Mediterranean descent.

- If your child has a sulfite allergy, talk with the doctor.
- If the patient is a child younger than 6 months, use this drug with care. The risk of methemoglobinemia may be higher in these children.

### If your child is pregnant:

- Tell the doctor if your child is pregnant or becomes pregnant. You will need to talk about the benefits and risks of your child using this drug while pregnant.

### What are some side effects that I need to call my child's 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 child's doctor or get medical help right away if your child has 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 methemoglobinemia like a blue or gray color of

the lips, nails, or skin; a heartbeat that does not feel normal; seizures; severe dizziness or passing out; severe headache; feeling very sleepy; feeling tired or weak; or shortness of breath. This effect is rare but may be deadly if it happens.

- Signs of too much acid in the blood (acidosis) like confusion; fast breathing; fast heartbeat; a heartbeat that does not feel normal; very bad stomach pain, upset stomach, or throwing up; feeling very sleepy; shortness of breath; or feeling very tired or weak.
- Severe dizziness or passing out.
- Fast or abnormal heartbeat.
- Feeling confused.
- Blurred eyesight.
- Seizures.
- Numbness and tingling.
- Fast breathing.
- Shortness of breath.

## 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 child's doctor or get medical help if any of these side effects or any other side effects bother your child or do

not go away:

- Dizziness or headache.
- Flushing.
- Upset stomach or throwing up.
- Stomach pain.
- Bad taste in your child's mouth.
- Anxiety.
- Sweating a lot.
- Feeling tired or weak.
- Feeling of warmth.

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

You may report side effects to your national health agency.

## How is this drug best given?

Give this drug as ordered by your child's 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 my child misses a dose?

- Call your child's 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 child's doctor, nurse, or pharmacist about how to store it.

## General drug facts

- If your child's symptoms or health problems do not get better or if they become worse, call your child's doctor.
- Do not share your child's drug with others and do not give anyone else's drug to your child.
- 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 child's 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

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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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