

Anthrax Emergency: How to Take Doxycycline to Prevent Anthrax

Emergency Use Instructions for Recipients

During an anthrax emergency, you will be given a medicine called **doxycycline** (DOX-i-SYE-kleen) because you **may** have breathed in anthrax germs. These germs can be **deadly**. Taking this medicine reduces your chance of getting sick and dying. Until officials know for sure who breathed in the germs, it is important to start taking this medicine as soon as possible after the emergency starts. Public health officials will provide information on who should get the medicine. If you have questions, talk to a doctor or health care provider about taking doxycycline.

People who may have breathed in anthrax germs should take the medicine for 60 days. Most people will be given a 10-day supply to start. Public health officials will tell you whether you need more and how to get it. Take the medicine as long as you are directed and avoid stopping early to reduce your chance of getting sick.

What is anthrax?

Anthrax is a serious disease that can be deadly. You can get sick if you breathe in the anthrax germs. **You cannot get anthrax from another person who has anthrax.**

- Early on, you could have any of the following symptoms: fever, chills, tiredness, cough or headache.
- Later, you could develop shortness of breath, chest discomfort, confusion or nausea. Symptoms usually start within 7 days of breathing in anthrax germs, but can start within 24 hours or take up to 6 to 7 weeks to appear. See a doctor right away if you have symptoms. **If you take doxycycline as directed and begin to feel sick anyway or show any of the symptoms mentioned above, get medical care right away.**

What is doxycycline?

Doxycycline is a prescription antibiotic approved by the Food and Drug Administration (FDA) to prevent anthrax. FDA is allowing certain uses of doxycycline, including its use without a prescription, during an anthrax emergency. If you were given doxycycline that has an expired date on the container, please be informed that based on scientific review, FDA is allowing the use of certain lots of doxycycline beyond the expiration date on the container. For more information, go to the FDA website at www.fda.gov (search for “doxycycline expiration”).

Who should **NOT** take doxycycline?

Do not take doxycycline if you have had a severe allergic reaction to doxycycline or similar medicines known as tetracyclines. A severe reaction may include swelling of the tongue, hands, feet, closing of throat, or trouble breathing. Talk to your doctor or public health official about other medicines available to prevent anthrax.

How do I take doxycycline?

For children weighing 76 pounds (35 kg) or more and adults aged 18 years or older

- Take 1 pill (100 mg) in the **morning** with a full glass of water (with or without food or milk) **and**
- Take 1 pill (100 mg) in the **evening** with a full glass of water (with or without food or milk).
- ** The morning and evening doses should be taken 12 hours apart each day for as long as directed.
- ** Doxycycline works just as well whether you take it with or without food or milk.

If you **cannot swallow pills**, follow the crushing and mixing directions you were given; the directions are also available on the CDC website at www.cdc.gov (search for “doxycycline crushing instructions”).

For children weighing less than 76 pounds (35 kg), dose is determined based on weight

- Follow instructions provided on the liquid doxycycline label or crushing and mixing directions that you were given. The crushing and mixing directions are also available on the CDC website at www.cdc.gov (search for “doxycycline crushing instructions”).
- ** The morning and evening doses should be taken 12 hours apart each day for as long as directed.
- Do not skip doses. However, if you miss a dose, **do NOT take 2 doses at once**. Take the next dose as scheduled.
- Keep the pills dry. Store them at room temperature (between 68–77°F or 20–25°C).
- If you get an upset stomach when you take the medicine, take it with food.
- Keep doxycycline away from children and pets. Call the poison control center if children or pets ingest the medicine by accident (1-800-222-1222).



What are common side effects of doxycycline?

KEEP taking doxycycline if you have mild nausea, vomiting, and/or diarrhea, a mild sunburn, or a vaginal yeast infection. If these symptoms become severe, talk to your doctor.

What are possible serious side effects of doxycycline?

Serious side effects from doxycycline are rare. **STOP** taking doxycycline and get medical help right away (go to the emergency room or call 911) if you have:

- Closing of the throat or trouble breathing
- Swelling of the tongue, hands, or feet
- Severe itching or rash, especially hives and wheals
- Severe stomach cramps with high fever or bloody or watery diarrhea
- Yellowing of the eyes or skin, or dark brown or tea-colored urine (liver failure)
- Pain when swallowing (esophageal ulcers)
- Unusual bleeding or bruising
- Severe headaches, dizziness, or double vision

What if I am taking other medicines?

- Talk to your doctor if you are on blood thinners or seizure medicines. Doxycycline may affect how much of these medicines you need.
- Doxycycline might not work as well when taken with some medicines. Take it at least 2 hours before or 2 hours after taking:
 - Multivitamins, supplements, or antacids with aluminum, calcium, iron, or magnesium
 - Helidac, Kaopectate, Pepto-Bismol, or other products with bismuth subsalicylate used for indigestion, nausea, or diarrhea

What else do I need to know about doxycycline?

- It can cause your skin to be more sensitive to the sun. Use sunscreen and cover exposed skin.
- It can slow bone growth in children.
- It can make birth control pills less effective. Use a second form of birth control until you finish taking all of your doxycycline.
- Long-term use can cause discolored teeth or poor tooth enamel in children younger than 8 years and in infants whose mothers took doxycycline during the last half of pregnancy or while nursing.
- Tell your doctor if you are or become pregnant or are breastfeeding.

On rare occasions, doxycycline can cause serious problems. A federal program called the Countermeasures Injury Compensation Program (CICP) may help pay for costs of medical care and other specific expenses of certain people who have been seriously injured by some drugs or vaccines. If you have been injured by doxycycline used to prevent anthrax, you can learn more about this Program by visiting www.hrsa.gov/cicp or by calling 1-855-266-2427 (toll-free).

What alternative medicines can I take instead of doxycycline?

Public health officials will tell you if other medicines are available. The risks and benefits of alternative medicines, if available, will be explained in separate instructions. For more information, visit www.cdc.gov.

Risk-Benefit Statement

Although doxycycline has some potential and serious adverse effects, the expected benefit of doxycycline in helping to prevent disease and death associated with anthrax exposure outweigh these risks.

How do I report side effects or medication errors?

Tell your doctor or health care provider right away and report side effects or medication errors to MedWatch at www.fda.gov/medwatch or 1-800-FDA-1088.