Doxorubicin (Adriamycin®)
(“doks oh ROO bi sin”)

How drug is given: by vein (IV)

Purpose: To treat in leukemia, lymphoma, breast cancer, ovarian cancer, sarcoma, neuroblastoma, lung cancer, bladder cancer, and other cancers.

Things that may occur during or within hours of treatment

1. Doxorubicin, as with many drugs, may cause an allergic reaction. If you have a rash, facial flushing (warmth or redness of the face), or itching during or after you get this drug, please tell your doctor or nurse right away.

2. You may have nausea, vomiting, and/or loss of appetite. Nausea and vomiting may begin one to three hours after the drug is given and may last more than 24 hours. You may be given medicine to help with this.

3. Your urine may turn orange or red, which may last 1 to 2 days after the drug is given. This happens because the drug is red and it leaves your body in the urine.

4. If the drug leaks out of the vein into the tissue while it is being given, it can cause harm. This is called extravasation. If you feel any burning or tingling in the area of your IV, please tell your nurse right away.

Swelling, redness, blisters or bruising around the area of the IV or port may occur one or two weeks after getting this drug. Call your doctor or nurse immediately if you experience any of these symptoms.

5. Loose stools or diarrhea may occur after the drug is given. You may take loperamide (Imodium A-D®) to help control diarrhea. You can buy this at most drug stores. It is important to drink more fluids (water, juice, sports drinks). If these do not help, tell your doctor or nurse.

6. Some patients may feel very tired, also known as fatigue. You may need to rest or take naps more often. Mild to moderate exercise may also help you maintain your energy.
Things that may occur a few days to weeks later

1. Your blood cell counts may drop. This is known as bone marrow suppression. This includes a decrease in your:
   - Red blood cells, which carry oxygen in your body to help give you energy
   - White blood cells, which fight infection in your body
   - Platelets, which help clot the blood to stop bleeding

   This may happen 7 to 14 days after the drug is given and then blood counts should return to normal. If you have a fever of 100.5°F (38°C) or higher, chills, a cough, or any bleeding problems, call your doctor or nurse right away.

2. You may get mouth sores 7 to 10 days after this drug is given. It is important to keep your mouth clean. A soft-bristle toothbrush should be used for brushing your teeth. You may have a burning feeling and redness inside the mouth or on the lips. Use a baking soda mouth rinse 4 or 5 times a day.

   Other mouth rinses may be ordered by your doctor. Do not use mouth washes that have alcohol in them because they will dry out the mouth. If you cannot eat or swallow because of this, let your doctor or nurse know. Check with your doctor before having any dental work done.

3. Some or all of your hair may fall out around 3 to 4 weeks after treatment starts. You may lose hair on your head as well as facial and body hair. You may want to buy a wig before hair loss begins. Hair may grow back during treatment.

4. Skin changes, such as skin turning a darker color, can happen. There may be redness and pain over areas where you have gotten radiation therapy. Ask your doctor or nurse what lotions or creams you may use. Sunlight may cause your skin to burn easier so use a sunscreen of SPF 30 or greater when you go outside. Do not go to tanning booths.

Things that may occur after treatment ends (even months to years later)

1. This drug may affect your heart. This is usually linked to the total amount of drug that you are given over time. Your heart function will be followed. You should let your doctor or nurse know if you are coughing, having trouble breathing, have chest pain and/or swelling in the feet or ankles.

2. Fertility and Related Precautions
   - It is still very important to use birth control if you are having sex, because this drug could be harmful to an unborn baby.
   - Men can become sterile and may want to think about sperm banking prior to chemotherapy

Mouth Rinse Recipe:
Mix: 1 tsp salt or baking soda with 8 oz. glass of water
• For women, your period (menstrual cycle) may not be regular for a while or may stop completely and you may not be able to get pregnant.
• Women should not breast-feed while receiving this drug.
• If you are concerned about any of this, please talk with your doctor or nurse.

3. In very rare cases, you may be at risk of getting another type of cancer after taking doxorubicin.

The above information includes some, but not necessarily all, of the possible side effects of this medication. The side effects in this teaching sheet may not be the same ones you experience. Your side effects may be different, depending on how often you receive treatment (your schedule) and how much you receive each time (your dosage). Side effects may also vary if you take other medications. Please talk with your doctor or nurse if you have questions about possible side effects you may experience. This document should not take the place of conversations with members of your health care team.

If you experience any significant change in your health during or after treatment, contact a member of your health care team right away.