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TC: Docetaxel and Cyclophosphamide

What is TC?

It is the short name for the drugs used for this chemotherapy treatment. The two drugs you will receive during this treatment are Docetaxel (Taxotere or "**T**") and Cyclophosphamide (Cytoxan or "**C**").

What is Docetaxel (doe-se-TAKS-el) and how does it work?

Docetaxel is a chemotherapy drug known as an "anti-microtubule inhibitor". It is a natural medicine that comes from yew trees. This drug fights cancer by stopping fast growing cancer cells from dividing and making new cancer cells.

What is Cyclophosphamide (sye-kloe-FOS-fa-mide) and how does it work?

Cyclophosphamide is a chemotherapy drug known as an "alkylating agent." It is a chemical that is made in a laboratory. This drug works to stop fast growing cancer cells from dividing and making new cells.

Why am I getting two chemotherapy drugs for my cancer?

Both drugs work to stop fast growing cancer cells from dividing and making new cells, but they attack the cancer cells differently. Giving the two drugs together makes the treatment more effective.

What should I tell my doctor before getting chemotherapy?

Talk to your doctor about the following:

- If you have ever had chemotherapy and the names of the chemotherapy drugs you were given.
- If you have ever had heart, liver, or kidney problems.
- If you are allergic to medicines containing polysorbate 80 or "Tween 80".
- If you are pregnant or think you may be pregnant. Your doctor will talk with you about birth control while getting chemotherapy.
- If you are breastfeeding.
- If you have been told that you need to start a new medicine.
- The medicines/pills you are taking, including:
 - Medicines prescribed by any of your doctors
 - Herbs
 - Vitamins
 - Over-the-counter medicines

How does my doctor decide my chemotherapy dose?

To determine your treatment dose, your doctor will review the following: your height, your weight, your medicines, how well your liver and kidneys are working, and any other health problems you have.

Usually four doses of this chemotherapy are given. You will receive a dose every three weeks. You will see the doctor or nurse practitioner before each chemotherapy treatment.

Should I eat or drink before my treatment?

It is best to eat a small meal before getting your chemotherapy. Drinking plenty of non-caffeinated fluids may also be helpful. However, if you have been told to limit fluids, check with your doctor about how much you can drink.

How will my treatment be given?

Before your chemotherapy, you will be given several medicines to prevent nausea, vomiting or an allergic reaction. These medicines may affect your abilities, so for your safety you should have someone drive you home.

Docetaxel is given directly into your blood stream through a tube (IV) placed in your arm or chest. Docetaxel comes in a bag with tubing attached. The nurse will connect the tubing to a pump. This treatment takes about 1 hour.

Cyclophosphamide is given directly into your blood stream through a tube (IV) placed in your arm or chest. Cyclophosphamide comes in a bag with tubing attached to it. The nurse will connect the tubing to a pump. This treatment takes between 30 and 60 minutes.

Your entire visit, including your doctor's appointment and your treatment will take 4 to 6 hours.

What are the side effects of this treatment?

Every person responds differently to treatment. Some of the more common side effects of this chemotherapy are:

- Diarrhea
- Nausea and/or vomiting lasting for several days
- Numbness, tingling or pain in hands and feet
- Swelling of hands, feet or ankles
- Fatigue
- Excessive tearing
- Changes in your nails
- Rash or other skin changes, including "hand and foot syndrome".
 Hand and foot syndrome may cause tingling, numbness or pain on
 the palms of your hands and soles of your feet. Your hands and feet
 may become swollen or red and have small sores or blisters. Your
 skin may become very dry and begin cracking and peeling.
- Hair loss, including the hair on your head and body. This normally begins 10 to 14 days after chemotherapy. A very rare side effect, is that the hair on your head may not grow back, or it may only grow back on some areas of your head.

- Mouth pain or open sores in the mouth
- Low white blood cell count (may increase your risk for infection)
- Low hemoglobin (may cause you to have less energy and tire more easily)
- Low platelet count (may cause you to bleed more easily or longer than normal and have more bruising)
- Muscle or joint aches and pain

When should I call my doctor?

You should call your doctor right away if you have any of the following signs or symptoms:

Fever of 100.4 degrees Fahrenheit (38 degrees Celsius) or higher

A fever can be life threatening if not treated. Your doctor may ask you to go to the hospital.

- Chills, sore throat, cough or a wound that does not get better
- Open sores in your mouth
- Nausea that prevents you from eating or drinking
- Vomiting even after you have taken your anti-nausea medicine
- Bleeding or bruising, including bloody or black stools or blood in your urine
- Diarrhea (4 or more loose stools in 24 hours)
- Changes in your heartbeat
- Shortness of breath or difficulty breathing
- Swelling in feet or ankles
- Fast weight gain

Is there anything else I should know about this treatment?

Some patients may have an allergic reaction while the **Docetaxel** is being given. To prevent this, you will be given a medicine called Dexamethasone to take at home **before** coming for your treatment. If an allergic reaction does happen during your treatment, the nurse will give you medicine to help manage the reaction and extra precautions will be taken when your next treatment is given.

- Chemotherapy may make it harder for your body to fight infections. Wash your hands often and avoid people who are sick.
- This treatment requires special precautions to prevent the chemotherapy drugs from coming into contact (through blood, urine, bowel movements, vomit and vaginal or seminal fluids) with others.
 Your chemotherapy nurse will give you guidelines to follow for 48 hours after receiving chemotherapy.
- Chemotherapy can change how your body reacts to vaccines. Talk to your doctor before getting any vaccines.
- Patients who get Cyclophosphamide have a slightly higher risk of getting a rare form of blood cancer, called "leukemia". Your doctor can tell you more about this risk.
- You should drink 8 to 10 eight-ounce glasses of non-caffeinated fluid each day throughout your treatment. This is important to keep you hydrated while you are receiving chemotherapy.
- This treatment may cause women to stop having menstrual cycles.
 Depending on your age, your menstrual cycles may or may not return.
- It may be difficult to get pregnant even after the chemotherapy is finished.
- This treatment may affect your ability to have children. Talk to your doctor before getting chemotherapy if you are planning to have children in the future.

For more information about cancer, chemotherapy, side effects or how to care for yourself during treatment, refer to your **Chemotherapy and You** book, or ask your doctor, nurse or pharmacist.

You may also find it helpful to watch The James Patient Education videos at http://cancer.osu.edu/patientedvideos to help you learn tips for managing treatment side effects.