

For the Patient: CVP-R Other names: LYCVP-R

- C Cyclophosphamide
- V Vincristine (also known as ONCOVIN®)
- P Prednisone (taken by mouth)
- R Rituximab (also known as RITUXAN®, RITUXAN® SC)

Uses:

- CVP-R is a drug treatment given for Non-Hodgkin's Lymphoma with the expectation of destroying cancer cells.
- CVP-R is currently offered to patients with Low Grade (Slow growing) Non-Hodgkin's Lymphoma

Treatment Plan:

- Your treatment plan consists of several (up to 8) chemotherapy cycles. Each
 cycle lasts 3 weeks (21 days). For each cycle you will have three
 chemotherapy drugs, plus a drug called prednisone taken as a pill by mouth.
- Your first treatment cycle will be over 2 days. Day 1 will be about 90 minutes.
 The next day (Day 2) plan to spend about 5 hours in the treatment room.
 Each cycle thereafter will be approximately 3 hours. You may receive all the drugs on Day 1 or you may receive the drugs on two separate days (Day 1 and 2). You will take the oral medication, prednisone, daily for the first five days of each cycle.
- The day before each scheduled chemo treatment you will have a blood test and an appointment with your nurse and/or doctor to assess how you have tolerated your treatment.

Drugs:

- Four chemotherapy drugs (cyclophosphamide, vincristine, prednisone and rituximab) will be given at each cycle. All drugs except the prednisone are given by injection into a vein. Rituximab can be given by injection into a vein or injected under the skin (subcutaneously or SC). Rituximab may be given on separate days throughout the treatment or may be given the same day (Day 1) after the first cycle.
- You will be given an oral medication (Prednisone) to start on Day 1 and you
 will need to take this daily for a total of 5 days (Day 1-5).
- You will also be given a prescription for anti-nausea pills to help prevent nausea and vomiting. Please also purchase acetaminophen 325 mg and diphenhydramine 25 mg; you will need these prior to rituximab.

- During the rituximab infusion, the nurse may monitor your heart rate, breathing and blood pressure at frequent intervals.
- A blood test will be taken prior to each cycle of treatment (every 3 weeks).
 The timing or the dose of chemotherapy may be changed based on your blood tests and/or other side effects.

Instructions:

- Bring your anti-nausea drugs and the acetaminophen and diphenhydramine
 with you to take before each IV treatment. The nurse will instruct you when to
 take your pills. You may also need to take anti-nausea pills at home after the
 chemotherapy. It is easier to prevent nausea than treat it once it has
 occurred, so follow directions closely.
- Call your cancer doctor <u>immediately</u> (day or night) at the first sign of any infection but especially if you have a fever over 38C or 100F.
- Check with your doctor or pharmacist before you start taking any new drugs.
 Other drugs such as barbiturates, digoxin (LANOXIN®), ciprofloxacin
 (CIPRO®), and similar antibiotics, phenytoin (DILANTIN®), warfarin
 (COUMADIN®), nifedipine (ADALAT®), carbamazepine (TEGRETOL®),
 ketoconazole (NIZORAL®) and similar antibiotics, and blood pressure
 medications may interact with CVP-R
- We may ask you to skip your blood pressure medication 12 hours before and during Rituximab treatment.
- Drink 8-12 cups of liquid a day on the day of your treatment and the day after your treatment. Empty your bladder (pass urine) every 2 hours while you are awake and at bedtime for at least 24 hours after your treatment. This helps prevent bladder and kidney problems.
- Avoid grapefruit juice for 48 hours before, and on the day of your treatment.
- You may drink small amounts of alcohol, as it will not affect the safety or
 effectiveness of your treatment. Drinking alcohol may increase the risk of
 some side effects of prednisone; discuss this with your doctor or pharmacist.
- Tell other doctors or dentists that you are being treated with CVP-R chemotherapy before you receive any treatment from them.
- **Tell** doctors, nurses, and pharmacists that you are being treated with rituximab subcutaneous injection before you receive other subcutaneous injections. Other medications should not be injected into the same injection site as rituximab if possible.
- Use effective contraception (birth control) if you could become pregnant or if your partner could become pregnant. Becoming pregnant while on chemotherapy will likely harm the baby. Do not breast feed.

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Serious Side Effects:

Unexpected and unlikely side effects can occur with any drug treatment. The ones listed below are particularly important as they are directly related to the common actions of the drugs in your treatment plan.

- Infection: The number of white blood cells that help fight infections will be lowered by the treatment. Your blood count is expected to return to normal by Day 1 of the next cycle. If your white blood cell count becomes very low you could get a serious infection. If you have a fever over 38°C or 100°F, call your cancer doctor immediately or go to the nearest Hospital Emergency and tell them that you are on chemotherapy. It is recommended you have a working thermometer at home.
- Allergic Reaction: Rituximab can cause allergic type reactions during or hours after your treatment. Report any lightheadedness or dizziness, difficulty breathing, cough, rash, skin flushing, itchy skin, tickle in throat, or chest tightness to your chemotherapy nurse immediately.
- Bleeding Problems: If you develop black tarry stools, blood in your urine, pinpoint red spots on the skin, or prolonged nose bleeds report them immediately to your doctor or nurse.
- Tissue Injury: Vincristine can cause tissue injury if it leaks out of the vein
 while the drug is being given. Report immediately any sensation of burning,
 stinging or pain to your chemotherapy nurse immediately.
- Early menopause: If you are a woman still having menstrual periods, CVP-R
 may cause your ovaries to stop working, resulting in menopausal symptoms
 (such as hot flashes) and infertility. Your periods may stop. This may be
 permanent especially if you are 40 years of age or older.
- **Bladder Problems:** Rarely, cyclophosphamide may cause damage to the lining of the bladder. Report any signs of blood in urine, frequent need to pass urine, or pain on passing urine to your doctor immediately.

Common Side Effects and Management:

| SIDE EFFECTS | MANAGEMENT |
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| Nausea and vomiting can occur with this treatment and you will need to take antinausea medications before and after your chemotherapy. | You will be given a prescription for antinausea drugs to take before your IV treatment and later at home. It is easier to prevent nausea than treat it once it has occurred, so follow directions closely. Refer to the following pamphlets: For the Patient: Managing Nausea; Chemotherapy & You; Food choices to help control nausea* |

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| SIDE EFFECTS | MANAGEMENT |
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| Fevers and chills may occur especially during the first Rituximab treatment. | You will take acetaminophen (eg, TYLENOL®) and diphenhydramine (eg, BENADRYL®) before and every 4 hours during your rituximab treatment. Tell your nurse immediately if you have a reaction during treatment. |
| Hives, a type of allergic reaction, may occur. Hives are red or pale raised patches on your skin and are usually itchy. These reactions usually occur during or up to 24 hours after the infusion. | Take diphenydramine (eg, BENADRYL®) 25 or 50 mg up to 4 times a day. (Note: diphenhydramine causes drowsiness) |
| Redness, swelling, pain, or tenderness commonly occurs where the needle was placed when rituximab is injected under the skin. These reactions typically occur within 1-2 days and usually disappear on their own. Reactions are less common with later treatments even if you have a reaction with the first treatment. | Apply cool compresses for 15-20 minutes several times a day after the injection. Tell your doctor or your nurse at the next visit if these reactions are very painful or last longer than 2 days. |
| Hair Loss. Your hair will fall out 2-4 weeks after treatment begins. Your scalp may feel tender. You may lose hair on your face and body. Your hair will grow back once your treatments are over and sometimes between treatments. The colour and texture of the new hair growth may be different. | Cutting your hair short or shaving your head may be more comfortable. Avoid hair spray, bleaches, dyes and perms. Apply mineral oil to your scalp to reduce itching. If you lose your eyelashes and eyebrows, protect your eyes from dust and grit with a broad-rimmed hat and glasses. Ask your nurse about information on wigs and head coverings. |

| SIDE EFFECTS | MANAGEMENT |
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| Mouth Sores may occur a few days after treatment. Mouth sores can occur on the tongue, gums and sides of the mouth or in your throat. Mouth sores or bleeding gums can lead to an infection. | Brush your teeth gently after eating and at bedtime with a soft toothbrush. If your gums bleed use gauze instead of a brush. Use baking soda instead of toothpaste. Try baking soda mouth rinses (using ¼ tsp baking soda in 1 cup warm water) and rinse several times a day. Try ideas in <i>Easy to chew, easy to swallow food ideas*</i>. Tell your doctor about a sore mouth, as your chemotherapy doses may need to be decreased if mouth sores are severe. |
| Fatigue is common especially in the first 1-2 weeks after your treatment. As the number of cycles increases fatigue may get worse. | Your energy level should slowly improve (weeks – months) after your final treatment is completed. Refer to the pamphlet 'Your Bank to Energy Savings-How people with cancer can handle fatigue' |
| Your platelets may decrease 6-13 days after your treatment. They will return to normal with time. Platelets help your blood clot if you cut yourself. You may bruise or bleed more easily than usual. | To help prevent bleeding problems: Try not to bruise, cut or burn yourself. Clean your nose by blowing gently; do not pick your nose. Avoid constipation Avoid ASA (eg, ASPIRIN®) unless recommended by your doctor. For minor pain use acetaminophen (TYLENOL®). Take your temperature prior to taking acetaminophen-containing products. Do not take common painkillers such as ibuprofen (eg, ADVIL®, MOTRIN®) |

| SIDE EFFECTS | MANAGEMENT |
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| Severe constipation could occur due to vincristine. | See your doctor as soon as possible if you get severe constipation. Drink plenty of fluids Add prunes or prune juice to diet Eat foods high in fibre such as bran, whole grain breads and cereals, nuts, raw fruits and vegetables. Ask your nurse about the pamphlet 'Suggestions for dealing with Constipation" |
| Numbness or tingling of fingers or toes could occur due to vincristine. | Numbness and tingling of the toes and fingers will slowly return to normal after your last chemo. Tell your doctor at your next visit if you develop numbness or have trouble picking up small objects, doing up buttons or writing. Be careful handling sharp, hot or cold objects. |
| Sugar control may be affected in people with diabetes. | Check your blood sugar regularly if you are diabetic. See your doctor if your have signs of blood sugar problems such as thirst and frequent need to pass urine. |
| Increased energy and difficulty sleeping may be due to prednisone. | The days you take your prednisone you may feel as though you have extra energy. You may also have difficulty sleeping at night. Take the prednisone first thing in the morning to prevent insomnia at night. |

| If you experience symptoms or changes in your body that have not been described above but worry you, tell your doctor about them at the time of your next visit. If you have symptoms that are severe, contact: |
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| at telephone number |
| If you have symptoms that are severe or need emergency services, go to your local hospital's Emergency Department. |