

For the Patient: MYDARBD

Other Names: Treatment of Multiple Myeloma Using Daratumumab (DARZALEX®), Bortezomib (VELCADE®) and Dexamethasone

MY = MYeloma (tumour group) DAR = DARatumumab B = Bortezomib D = Dexamethasone

<u>Uses:</u>

- MYDARBD is a drug treatment given for Multiple Myeloma.
- MYDARBD is currently offered to patients with myeloma that has progressed despite at least one prior treatment.

How does it work?

- MYDARBD is a combination of three drugs, daratumumab (dar-a- toom-ue-mab), bortezomib (bor-TEZ- oh- mib) and dexamethasone (dex- a-METH-a- sone).
- Daratumumab is a monoclonal antibody, a type of protein designed to target and interfere with the growth of cancer cells.
- Bortezomib is a drug that inhibits certain enzymes that play an important role in cell function and growth.
- Dexamethasone is a steroid that helps kill myeloma cells.
- Cyclophosphamide may be added to this combination to help kill cancer cells

Intended Benefits:

- MYDARBD may stop or slow down the growth of myeloma cells in your body. This
 may improve your symptoms and delay or prevent new symptoms from developing.
- It will take between several weeks or months of treatment before your doctor can judge if the treatment is working.

Treatment Plan:

- It is a combination of three drugs (daratumumab, bortezomib and dexamethasone and may or may not include cyclophosphamide). Daratumumab is a clear liquid that is either injected into a vein (given intravenously), or injected under the skin (given subcutaneously). Bortezomib is injected beneath the skin (given subcutaneously). Dexamethasone is taken by mouth. Cyclophosphamide (if ordered), is taken by mouth.
- Your treatment consists of cycles. Each cycle is 28 days (days 1-28).
 - For cycles 1 and 2, you will receive daratumumab, bortezomib and dexamethasone treatment every week (days 1, 8, 15, 22). Cyclophosphamide (if ordered), will be taken on days 1, 8 and 15.
 - For cycles 3 and 4, you will receive daratumumab every 2 weeks (days 1 and 15) and bortezomib and dexamethasone every week (days 1, 8,15, 22). Cyclophosphamide (if ordered), will be taken on days 1, 8 and 15.

- For cycles 5 to 8, you will receive daratumumab every 4 weeks (day 1 only) and bortezomib and dexamethasone every week (days 1, 8, 15, 22). Cyclophosphamide (if ordered), will be taken on days 1, 8 and 15.
- For cycle 9 onwards, you will receive only daratumumab every 4 weeks (day 1 only)
- There are different options for administering the very first daratumumab dose. (The option will be determined by your doctor):
- Subcutaneous Option:
 - Premedications are given before daratumumab administration
 - daratumumab will be injected subcutaneously over 5 minutes into the abdomen. You will be in the treatment room for one hour after the injection is complete.
 - If it is tolerated, you will not need to stay after completion of injection for future doses of subcutaneous daratumumab
- Intravenous (IV) Options:
 - IV Option 1: Infuse daratumumab IV over 1 day
 - You will be in the treatment room for approximately 8 hours on the first day (day 1). Premedications are given before the daratumumab infusion and the IV infusion will take approximately 7 hours.
 - IV Option 2: Infuse daratumumab IV over 2 days
 - You will be in the treatment room for approximately 5 hours on each day. Premedications are given before the daratumumab infusion and the IV infusion will take approximately 4.5 hours
 - If it is tolerated, daratumumab will be infused IV at a faster rate and each cycle thereafter will take approximately 2 hours including premedication and observation post IV infusion

Daratumumab

- May cause infusion reactions or administration-related reactions. Medications are given prior to the daratumumab treatment to prevent reactions. Please fill the prescription for montelukast and also buy acetaminophen 325 mg and either diphenhydramine 25 mg tablets or loratadine 10mg tablets, depending on which one your doctor orders. Pick up your dexamethasone from BC Cancer pharmacy the day before or *at least one hour before* your appointment as you will need to take these medications before the daratumumab treatment.
- During the daratumumab treatment, the nurse will monitor your heart rate, breathing and blood pressure. You will need to remain in the room for observation for 30 to 60 minutes after receiving the drug for the first 1 to 3 treatments depending on the infusion or subcutaneous option. Your nurse will let you know when the observation time is complete.
- Redness, swelling, pain, or tenderness are possible with subcutaneous daratumumab treatment. These reactions typically occur within 1-2 days and usually disappear on their own. Apply cool compresses for 15-20 minutes several times a day after the injection. Tell your healthcare team if these reactions are very painful or last longer than 2 days.

 During treatment with subcutaneous daratumumab, administer other subcutaneous drugs at alternative injection sites whenever possible

Dexamethasone

- Usually given as 4 mg tablets (4 mg of dexamethasone per tablet)
- Can be given in different dosing regimens as prescribed by your doctor
- The number of tablets you take will depend on the dose that your doctor prescribes for you.
- On the day of your daratumumab treatment, take your dexamethasone before the daratumumab.
- For cycle 1:
 - if you are receiving daratumumab subcutaneously, take your dexamethasone before daratumumab injection administration
 - if you are receiving daratumumab IV over 2 days, take dexamethasone 20mg before the infusion on **both** days
 - if you are receiving daratumumab IV over 1 day, take your dexamethasone before the infusion on day 1
- On the weeks when you are not receiving daratumumab, take your dexamethasone tablets as a single dose with food in the morning
- Some patients may not be able to take dexamethasone
- Other patients may take prednisone instead

Labs:

- For the first 4 cycles, a blood test is typically done every 2 weeks
- Thereafter, blood tests are typically done every 4 weeks, within four days of your next chemotherapy cycle.

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 these drugs.

- Daratumumab and bortezomib may **damage sperm and may harm** the baby if used during pregnancy. It is best to use birth control while being treated with daratumumab and for at least three months after treatment has ended. Tell your doctor right away if you or your partner becomes pregnant. Do not breastfeed during treatment.
- Infection: You are at an increased risk for getting an infection if your white blood cells decrease. If you have a fever over 38°C or 100°F, call your cancer doctor <u>immediately</u> (24 hours a day) or go <u>immediately</u> to your nearest Hospital Emergency and tell the doctor that you are on chemotherapy. It is recommended you have a working thermometer at home.
- **Bleeding Problems:** You are at an increased risk of having bleeding problems if your platelets decrease. 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.

- Other drugs and **vitamin C supplements** may interact with bortezomib. Check with your doctor or pharmacist before you start taking any new drugs or vitamin supplements.
- **Green tea** and preparations made from green tea should be avoided throughout the entire time of treatment. These have been found to severely decrease the effectiveness of bortezomib, and might make it have no effect at all.
- The **drinking of alcohol (in small amounts)** does not appear to affect the safety or usefulness of daratumumab, bortezomib or cyclophosphamide.
- If you are also taking cyclophosphamide, you should drink plenty of liquids e.g., 8-12 cups (2000-3000 mL) a day. Depending on your dose, you may be told to empty your bladder (pass urine) frequently, every 2 hours while you are awake and at bedtime for at least 24 hours after your dose. Your doctor may also tell you to get up in the night to empty your bladder. This helps prevent bladder and kidney problems.

Common Side Effects and Management:

SIDE EFFECTS	MANAGEMENT
Normal white blood cells protect your body by fighting bacteria (germs) that cause infection. When they are low, you are at greater risk of having an infection.	 To help prevent infection: Wash your hands often and always after using the bathroom. Avoid crowds and people who are sick. Call your doctor <i>immediately</i> at the first sign of an infection such as fever (over 100°F or 38°C by an oral thermometer), chills, cough, or burning when you pass urine.
Normal platelets help your blood to clot normally after an injury (e.g., cut). When the platelet count is low, you may be more likely to bruise or bleed.	 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. Brush your teeth gently with a soft toothbrush as your gums may bleed more easily. Some medications such as ASA (e.g., ASPIRIN®) or ibuprofen (e.g., ADVIL®) may increase your risk of bleeding. Do not stop taking any medication that has been prescribed by your doctor (e.g., ASA for your heart). For minor pain, try acetaminophen (e.g., TYLENOL®) first, but occasional use of ibuprofen may be acceptable.
Allergic reactions may sometimes occur. Signs of an allergic reaction may include runny or stuffy nose, throat irritation, cough, rash, itching, dizziness, and swelling or breathing problems including wheezing. This can occur immediately or several hours after receiving daratumumab. Pain or tenderness may occur where the needle was placed.	Tell your nurse if this happens while you are receiving daratumumab or contact your oncologist immediately if this happens after you leave the clinic. Apply cool compresses or soak in cool water for 15-20 minutes several times a

SIDE EFFECTS	MANAGEMENT
Fever and chills may sometimes occur shortly after treatment with daratumumab or bortezomib. Fever should last no longer than 24 hours.	 Take acetaminophen (e.g., TYLENOL®) every 4-6 hours, to a maximum of 4 g (4000 mg) per day. Fever (over 100°F or 38°C by an oral thermometer) which occurs more than a few days after treatment may be a sign of an infection. Report this to your doctor immediately.
Fatigue is common. As the number of cycles increases fatigue may improve	 Refer to the pamphlet 'Your Bank to Energy Savings-How people with cancer can handle fatigue'.* Sometimes a dose change may be required. Do not drive a car or operate machinery if you are feeling tired.
Skin rashes and itching may occur.	 To help itching you can use calamine lotion or diphenhydramine If very irritating, call your doctor during office hours, otherwise make sure to mention it at your next visit.

SIDE EFFECTS	MANAGEMENT
Diarrhea may commonly occur	Diarrhea must be treated immediately with loperamide 2 mg tablets (e.g., IMODIUM®):
	 Take ONE tablet at the first sign of loose or more frequent stools than usual. Then take ONE tablet every TWO hours until diarrhea has stopped for 12 hours.
	 At night, you may take ONE tablet every FOUR hours (set your alarm) during the time you usually sleep.
	 Always keep a supply of loperamide (e.g., have 48 tablets on hand). You can buy loperamide at any pharmacy without a prescription. To help diarrhea:
	 Drink plenty of liquids. Eat and drink often in small amounts. Avoid high fiber foods as outlined in Food Ideas to Help Manage Diarrhea. A dietitian can give you more suggestions for dealing with diarrhea If diarrhea does not improve 24 hours after starting loperamide or lasts more than 36 hours, call your doctor.
Constipation may sometimes occur	• Exercise if you can.
	 Drink plenty of fluids. Try ideas in Suggestions for Dealing with Constipation.*
Headache may sometimes occur.	 Take acetaminophen (e.g., TYLENOL®) every 4-6 hours if needed, to a maximum of 4 g (4000 mg) per day.

SIDE EFFECTS	MANAGEMENT
Sore mouth may occur a few days after treatment if you are using cyclophosphamide but it is rare at the dose that you are receiving. Mouth sores can occur on the tongue, the sides of the mouth or in the throat. Mouth sores or bleeding gums can lead to an infection.	 Brush your teeth gently after eating and at bedtime with a very soft toothbrush. If your gums bleed, use gauze instead of a brush. Use baking soda instead of toothpaste. Make a mouthwash with ¼ teaspoon baking soda AND ¼ teaspoon salt in 1 cup warm water and rinse several times a day. Try soft, bland foods like puddings, milkshakes and cream soups. Avoid spicy, crunchy or acidic food, and very hot or cold foods. Try the ideas in Food Ideas to Try with a Sore Mouth.*
Muscle, joint, or back pain may sometimes occur.	• You may take acetaminophen (e.g., TYLENOL®) every 4-6 hours to a maximum of 4 g (4000 mg) per day for mild to moderate pain. Tell your doctor if the pain interferes with your activity.
Loss of appetite may sometimes occur.	Try the ideas in Food Ideas to Help with Decreased Appetite
Increased calcium in the blood may sometimes occur.	To help prevent high calcium: • Keep active. • Drink plenty of fluids
Hair loss may occur if you are using cyclophosphamide, but is rare at the dose that you are receiving. Your hair may thin or you may become totally bald. Your scalp may feel tender. Your hair will grow back once your treatments are over and sometimes between treatments. Colour and texture may change.	 Refer to Resources for Hair Loss and Appearance Changes – Patient Handout.* You may also want to: Apply mineral oil to your scalp to reduce itching. Use a gentle shampoo and soft brush. Care should be taken with use of hair spray, bleaches, dyes and perms. Protect your scalp with a hat, scarf or wig in cold weather. Some extended health plans will pay part of the cost of a wig. Cover your head or apply sunblock on sunny days

 Increased energy and difficulty sleeping may be due to dexamethasone The days you take your dexamethasone you may feel as though you have extra energy. You may also have difficulty sleeping at night. Take the dexamethasone first thing in the morning to prevent difficulty sleeping at night. 	SIDE EFFECTS	MANAGEMENT
		 dexamethasone you may feel as though you have extra energy. You may also have difficulty sleeping at night. Take the dexamethasone first thing in the morning to prevent difficulty

*Please ask your pharmacist or chemotherapy nurse for a copy.

The pharmacists at BC Cancer and the pharmacists at your oncology clinic are also available to answer your drug-related questions.

Medication Interactions

Some Natural Health Products may interact with this treatment. Tell your doctor if you are taking any Natural Health Products. Check with your doctor or pharmacist before you start taking any Natural Health Products.

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 any symptoms are severe, contact:

at telephone number

If you have symptoms that are severe or need emergency services, go to your local hospital's Emergency Department.