

For the Patient: GIRCRT

Adjuvant therapy for high risk cancer of the rectum with combined Capecitabine and Radiation Therapy

- **GI** = **G**astroIntestinal
- **R** = **R**ectal
- **C** = **C**apecitabine
- **RT** = **R**adiation **T**herapy

ABOUT THIS TREATMENT

What is this treatment used for?

- Capecitabine is a drug given to treat cancer of the rectum. It is a tablet which is taken by mouth.
- Radiation therapy is a very effective therapy used to kill cancer cells by directing highenergy X-rays beams to a specific area of the body.

How do capecitabine and radiation work?

- Capecitabine works by interfering with dividing cells and preventing an increase in the number of cancer cells.
- Radiation also works by interfering with dividing cells by either killing them or stopping them from growing and reproducing.
- Capecitabine also acts as a "radio-sensitizer" to the radiation treatments. That is, the capecitabine makes the cancer cells more sensitive to the killing effect of the radiation. This is why the two types of treatment (radiation and chemotherapy) are used together at the same time.
- In this protocol, capecitabine is also used alone either before and/or after radiation treatment and surgery.

INTENDED BENEFITS

- You are being asked to take capecitabine and radiation as a treatment to reduce the risk of recurrence of your rectal cancer.
- "Adjuvant" therapy means this treatment is being given in addition to other types of treatment, such as surgery.

TREATMENT SUMMARY

How is this drug given?

- This treatment is usually given using one of 3 different treatment plans. Your doctor(s) will choose your treatment schedule based upon which option is best for the treatment of your cancer. Please see a description under "**Treatment Plan**" below for more information.
- During radiation treatment, your capecitabine prescription will be dispensed one week at a time by the pharmacy at the BC Cancer. You will need to <u>visit the pharmacy before your</u> <u>radiation therapy starts</u> to pick up your first week supply of capecitabine.

- Capecitabine is usually taken **twice a day**, 10 to 12 hours apart, with equal numbers of tablets taken at each dose. You may be given tablets of more than one strength to make up the right dose. Capecitabine is best taken within 30 minutes following the end of a meal (usually breakfast and dinner) with a glass of water.
- During combined treatment with radiation, capecitabine is given twice daily, only on the days that radiation therapy is given (with Saturday, Sunday and statutory holidays off), as long as you are not having too many side effects as determined by your doctor. You will be given enough medication to take home with you. If your doctor decides to delay or stop your capecitabine during radiation therapy due to side effects of the drug, your radiation treatments will continue.
- **During capecitabine treatment alone** the drug is taken twice daily for 14 days, followed by a 7-day break. This 21-day period of time is called a "**cycle**". You will receive a total of six 21-day cycles, given before or after radiation therapy, as long as you are not having too many side effects, as determined by your doctor.
- The tablet contains lactose.
- If you **vomit after taking capecitabine**, do not take a second dose. Call your doctor during office hours for advice.
- If you **miss a dose of capecitabine**, take it as soon as you can if it is within 6 hours of the missed dose. If it is over 6 hours since the missed dose, skip the missed dose and go back to the usual dosing time. Let your doctor know during office hours if you have missed a dose.
- Sometimes capecitabine treatment has to be **stopped for a short time** because of side effects. When you **restart** capecitabine treatment, do not make up for the missed dose; instead, take as directed by your cancer doctor and finish the treatment on the same day as originally planned. You may be told to take a different dose and you may have extra tablets left over. Return the extra tablets to the clinic at your next visit. Taking a lower dose does not affect the usefulness of capecitabine.
- **Store** capecitabine tablets out of the reach of children; at room temperature; away from heat, light and moisture.

How is radiation given?

- Radiation therapy is offered at each of the five regional BC Cancer Centres.
- Prior to starting treatment, you will attend the cancer centre to have your treatment planned. A CT scanner will take images which the radiation oncologist and radiation therapist will use to custom plan your treatment.
- Your treatment will start a few days after your planning appointment.
- A machine called a linear accelerator is used to generate and give the high energy x-rays.
- Radiation treatments are given every day of the week except weekends and holidays.

Treatment Plan

Your doctor(s) have 3 options as to how you will be treated. The options are described below.



- Radiation therapy and capecitabine at the same time for 5 weeks.
- Surgery follows completion of radiation and capecitabine treatment.
- Additional 6 cycles of capecitabine alone, starting about 4 to 8 weeks after surgery, depending on how you recover from surgery.

DATE	CYCLE	TREATMENT PLAN
		 Radiation: 25 fractions given over 5 weeks (may take 5 – 6 weeks)
	1	 Capecitabine orally in a.m. & p.m. daily for five weeks (on the days that radiation therapy is given, with Saturday, Sunday and statutory holidays off), combined with radiation
		► Surgery
	2 - 7	 Capecitabine orally in a.m. & p.m. x 14 days then off for 7 days (Cycle 2 starts about 4 to 8 weeks after surgery, depending on recovery. One cycle is 21 days)

\Box Option 2:

- Capecitabine alone given for 1 cycle.
- Radiation therapy and capecitabine at the same time for 5 weeks.
- Surgery follows completion of radiation and capecitabine treatment.
- Additional 5 cycles of capecitabine alone, starting about 4 to 8 weeks after surgery, depending on how you recover from surgery.

DATE	CYCLE	TREATMENT PLAN
	1	Capecitabine orally in a.m. & p.m. x 14 days then off for 7 days
		 Radiation: 25 fractions given over 5 weeks (may take 5 – 6 weeks)
	2	 Capecitabine orally in a.m. & p.m. daily for five weeks (on the days that radiation therapy is given, with Saturday, Sunday and statutory holidays off), combined with radiation
		► Surgery
	3 - 7	 Capecitabine orally in a.m. & p.m. x 14 days then off for 7 days (Cycle 3 starts about 4 to 8 weeks after surgery, depending on recovery. One cycle is 21 days)

\Box Option 3:

- Capecitabine alone given for 2 cycles.
- Radiation therapy and capecitabine at the same time for 5 weeks.
- Surgery follows completion of radiation and capecitabine treatment.
- Additional 4 cycles of capecitabine alone, starting 4 to 8 weeks after surgery, depending on how you recover from surgery.

DATE	CYCLE	TREATMENT PLAN
	1 & 2	 Capecitabine orally in a.m. & p.m. x 14 days then off for 7 days
		 Radiation: 25 fractions given over 5 weeks (may take 5 – 6 weeks)
	3	 Capecitabine orally in a.m. & p.m. daily for five weeks (on the days that radiation therapy is given, with Saturday, Sunday and statutory holidays off), combined with radiation
		► Surgery
	4 - 7	 Capecitabine orally in a.m. & p.m. x 14 days then off for 7 days (Cycle 4 starts about 4 to 8 weeks after surgery, depending on recovery. One cycle is 21 days)

What will happen when I get my drug?

- **During combined treatment** with radiation, you will be required to go for a **weekly blood test**. Your weekly supply of capecitabine will not be given to you until the results of the blood test are available to review.
- **During capecitabine treatment alone,** a blood test is done each cycle, on or before the first day of each treatment cycle. The dose and timing of your chemotherapy may be changed based on your blood counts and/or other side effects.

What will happen when I get radiation?

- Radiation treatments are delivered every day of the week except weekends and holidays. You will **not** take your capecitabine over the weekends and holidays.
- The length of your appointment will be approximately 15 minutes, but you will be receiving radiation for only a few minutes.
- While the radiation is being given, the radiation therapists will not be in the room with you. They will be watching you on a video camera and you can talk with them over the microphone.
- You will not feel anything during the radiation treatments.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Capecitabine

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

Your doctor will review the risks of treatment and possible side effects with you before starting treatment. The pharmacist will review how to take the capecitabine and possible side effects with you the day you first pick up your medication.

SERIOUS SIDE EFFECTS DURING TREATMENT	MANAGEMENT
Hand-foot skin reaction may occur during capecitabine treatment. The palms of your hands and soles of your feet may tingle, become red, numb, painful, or swollen. Skin may also become dry or itchy. You may not be able to do your normal daily activities if blisters, severe pain or ulcers occur.	 Avoid tight-fitting shoes or rubbing pressure to hands and feet, such as that caused by heavy activity. Clean hands and feet with lukewarm water and gently pat to dry; avoid hot water. Apply lanolin-containing creams (eg. BAG BALM®, UDDERLY SMOOTH®) to hands and feet liberally and often. Tell your cancer doctor at the next visit if you have any signs of hand-foot skin reaction. Stop taking capecitabine and call your cancer doctor if the skin reaction is painful, as your dose may need to be changed. Taking a lower dose does not affect the
Diarrhea may occur during your treatment.	 usefulness of capecitabine. To help diarrhea: Drink plenty of fluids Eat and drink often in small amounts Eat low fibre foods & avoid high fibre foods as outlined in <i>Food Choices to Help Manage Diarrhea*</i> If you have an increase of less than 4 stools per day more than normal, or a mild increase in ostomy output, start the following: Loperamide (IMODIUM®) 2 mg, take 2 tablets (4 mg) to start, followed by 1 tablet (2 mg) every 4 hours, or after each unformed stool to a maximum of 8 tablets (16 mg) daily, unless otherwise directed by a physician Stop taking capecitabine and call your cancer doctor if you have four stools a day more than usual or diarrhea during the night, or a moderate increase in ostomy output, as your capecitabine dose may need to be changed. Note: If lactose in milk usually gives you diarrhea, the lactose in the tablet may be causing your diarrhea. Take LACTAID® tablets just before your capecitabine dose.
Sore mouth may occur during treatment. 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 ½ teaspoon baking soda or salt in 1 cup warm water and rinse

SERIOUS SIDE EFFECTS DURING TREATMENT	MANAGEMENT
Your white blood cells will decrease 1-2 weeks after your treatment. They usually return to normal 3 weeks after your last treatment. White blood cells protect your body	 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 ideas in <i>Food Ideas to Try with a Sore</i> <i>Mouth*</i> To help prevent infection: Wash your hands often and always after using the bathroom. Take care of your skin and mouth.
by fighting bacteria (germs) that cause infection. When they are low, you are at greater risk of having an infection.	 Call your doctor <u>immediately</u> 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.
OTHER SIDE EFFECTS DURING TREATMENT	MANAGEMENT
Nausea and vomiting may occur while you are taking capecitabine. Many people have little or no nausea.	 You may be given a prescription for an antinausea drug(s) to take before your chemotherapy treatment and/or at home. It is easier to prevent nausea than treat it once it has occurred, so follow directions closely. Drink plenty of liquids. Eat and drink often in small amounts. Try the ideas in <i>Practical Tips to Help Manage Nausea</i>*
Your platelets may decrease during or after your treatment. They will return to normal after your last treatment. Platelets help to make your blood clot when you hurt 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. Brush your teeth gently with a soft toothbrush as your gums may bleed more easily. Maintain good oral hygiene. 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.
Tiredness and lack of energy may occur. worse.	 Do not drive a car or operate machinery if you are feeling tired. Try the ideas in the handout titled <i>Fatigue/Tiredness*</i>

SERIOUS SIDE EFFECTS DURING TREATMENT	MANAGEMENT
Your skin may sunburn easily from the capecitabine.	 To help prevent sunburn: Avoid direct sunlight. Wear a hat, long sleeves and long pants or skirt outside on sunny days. Apply a sun block lotion with an SPF (sun protection factor) of at least 30. Refer to Your Medication Sun Sensitivity and Sunscreens* or the BC Health Guide for more information. After sun exposure, if you have a severe sunburn or skin reaction such as itching, rash, or swelling, contact your doctor.
Hair loss is rare with capecitabine. Your hair will grow back once you stop treatment. Colour and texture may change.	 Use a gentle shampoo and soft brush. Care should be taken with use of hair spray, bleaches, dyes and perms. If hair loss is a problem, refer to <i>Resources for Hair Loss and Appearance Changes*</i>.

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

Special note:

Heart Problems: Serious heart problems can occur when starting capecitabine. These can rarely be fatal. Problems such as chest pain, heart attack, abnormal heart rhythm, or heart failure can occur. Having a history of heart problems with fluorouracil, a related chemotherapy drug, is a risk factor, as is having a history of prior angina (heart pain) or heart attack. Seek medical attention promptly if you experience feelings of heavy pressure or pain in the chest, trouble breathing, significant worsening leg swelling, or marked lightheadedness. These symptoms can occur within days after starting capecitabine. If your symptoms are severe, you may need to call for emergency help.

Radiation

- Prior to starting treatment, your radiation oncologist and radiation therapist will provide you with information on the side effects you may experience with radiation. You will also be provided with information on how to manage these side effects.
- The most common side effects are fatigue, bowel urgency, loose bowel movements and possible bladder irritation. The radiation therapists will assess you daily.
- Once a week you will be scheduled to meet with your radiation oncologist which will mean you will be at the cancer centre a little longer.
- Nurses, dietitians and other health care professionals are available to help support you during treatment.

INSTRUCTIONS FOR THE PATIENT

- Tell your doctor if you have ever hand an unusual or **allergic reaction** to fluorouracil (5FU, ADRUCIL®) before taking capecitabine.
- The **drinking of alcohol** (in small amounts) does not appear to affect the safety or usefulness of capecitabine.

- Capecitabine may damage sperm and may harm the baby if used during pregnancy. It is best to **use birth control** while being treated with these drugs. Tell your doctor right away if you or your partner becomes pregnant. Do not breast feed during treatment.
- **Tell** doctors, dentists and other health professionals that you are being treated with capecitabine before you receive any treatment from them.

Medication Interactions

Some drugs such as warfarin (COUMADIN[®]), phenytoin (DILANTIN[®]) and fosphenytoin (CEREBYX[®]) may **interact** with capecitabine. Tell your doctor if you are taking these or any other drugs as you may need extra blood tests or your dose may need to be changed. Check with your doctor or pharmacist before you start taking any new drugs.

THE FOLLOWING INFORMATION IS VERY IMPORTANT

STOP TAKING CAPECITABINE AND SEE YOUR DOCTOR <u>OR</u> GET EMERGENCY HELP IMMEDIATELY IF YOU HAVE:

- Signs of an **infection** such as fever (over 100°F or 38°C by an oral thermometer); chills; cough; pain or burning when you pass urine.
- Signs of **bleeding problems** such as black tarry stools; blood in urine; pinpoint red spots on skin.
- Signs of **heart problems** such as fast or uneven heartbeat, chest pain, chest pressure, shortness of breath or difficulty in breathing, swelling of ankles, or fainting.
- Signs of an **allergic reaction** (rare) soon after a treatment including dizziness, fast heart beat, face swelling, or breathing problems.

STOP TAKING CAPECITABINE AND SEE YOUR DOCTOR AS SOON AS POSSIBLE (DURING OFFICE HOURS) IF YOU HAVE:

- **Painful hand-foot skin reaction** such as painful redness, peeling, tingling, numbness, swelling or blistering of the palms of your hands and/or bottoms of your feet.
- **Diarrhea** with four stools a day more than usual, or diarrhea during the night.
- **Nausea** that causes you to eat a lot less than usual or **vomiting** more than 2 times in 24 hours.
- Painful redness, swelling or sores on your lips, tongue, mouth or throat.
- Signs of liver problems such as yellow eyes or skin, white or clay-coloured stools.
- Signs of **anemia** such as unusual tiredness or weakness.
- Severe abdominal or stomach cramping or pain.

CHECK WITH YOUR DOCTOR IF ANY OF THE FOLLOWING CONTINUE OR BOTHER YOU:

- Painless hand-foot skin reaction such as redness, peeling, tingling, numbness, swelling or blistering of the palms of your hands and/or bottoms of your feet,
- Painless redness, swelling or sores on your lips, tongue, mouth or throat.
- Uncontrolled nausea, vomiting, loss of appetite, diarrhea or constipation.
- Skin rash or itching.
- Changes in fingernails or toenails.
- Heartburn; mild to moderate abdominal or stomach pain.
- Easy bruising or minor bleeding.
- Tingling or a loss of feeling in your hands, feet, nose or throat

- Redness, swelling, pain or sores where the needle was placed.
- Watery, irritated eyes.

If you experience symptoms or changes in your body that have not been described above but worry you, or if any symptoms are severe, contact:

_____at telephone number:_____at