

For the Patient: UGIAVPEM

Other Names: First-Line Treatment of dMMR/MSI-H Metastatic Colorectal Cancer with Pembrolizumab

U = Undesignated GI = GastroIntestinal AV = AdVanced PEM = PEMbrolizumab

ABOUT THIS MEDICATION

What is this drug used for?

• Pembrolizumab is an intravenous (through the vein) drug given to treat cancer of colon or rectum.

How does this drug work?

• Pembrolizumab is a type of therapy called immunotherapy. It is a monoclonal antibody, a type of protein designed to help your own body's immune system target cancer cells to stop them from growing.

INTENDED BENEFITS

• This treatment is being given to slow down the growth of your cancer cells in your body. This treatment can help to control some of the symptoms that cancer may be causing and may delay or prevent new symptoms from starting.

TREATMENT SUMMARY

How is this drug given?

- Pembrolizumab is a clear liquid given as an infusion directly into the vein (IV).
- You will receive pembrolizumab at the clinic by a chemotherapy nurse, for one day only. Your treatment will last about 30-60 minutes. Your first treatment will probably take longer, as the nurse will review information on the chemotherapy drug with you. *It is a good idea to bring someone with you to your first treatment appointment*.
- The treatment is repeated every 3 weeks. This 3 week period of time is called a "cycle". This treatment will continue for a maximum of 35 cycles as long as you are benefiting from treatment and not having too many side effects, as determined by your oncologist.

The calendar on the following page shows how the medication is given each 3 week cycle.

с	DATE	TREATMENT PLAN
Y C		► Week 1 → Pembrolizumab IV on day 1 only
E 1		► Weeks 2 + 3 → no treatment

с	DATE	TREATMENT PLAN
Y C		► Week 1 → Pembrolizumab IV on day 1 only
E 2		► Weeks 2+3 → no treatment

Treatment is continued for a maximum of 35 cycles as long as you are benefiting from treatment and not having too many side effects.

What will happen while I am being treated?

- A blood test is done before starting each treatment cycle, usually at the time you see your oncologist.
- Your treatment may be interrupted based on your blood test results and/or other side effects.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

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.

You doctor will review the risks of treatment and possible side effects with you before starting treatment. The chemotherapy nurse will review possible side effects of the drug and how to manage those side effects with you on the day you receive your first treatment.

Pembrolizumab may cause serious immune reactions against your own body (autoimmune) affecting many parts.

What is the most important information I should know about SERIOUS SIDE EFFECTS?

- Pembrolizumab can cause serious side effects in many parts of your body. These side effects are most likely to begin during treatment; however, side effects can show up months after your last treatment with pembrolizumab.
- **Tell** your doctor as soon as possible if you have any of serious side effects listed in the table below or your symptoms get worse.
- **Do not try to treat or diagnose symptoms yourself.** Getting medical treatment right away may keep the problem from becoming more serious.

SERIOUS SIDE EFFECTS DURING TREATMENT	How Common is it?
Inflammation of the intestines (colitis)	Common
Symptoms may include:	(less than 1 in
• diarrhea (loose stools) or more bowel movements than usual. Do not	10 but more than
treat the diarrhea yourself.	1 in 100)
blood or mucus in stools or dark, tarry, sticky stools	
severe stomach pain (abdominal pain) or tenderness	
Inflammation of the thyroid gland (hyperthyroidism, hypothyroidism)	Common
Symptoms may include:	(less than 1 in
rapid heart beat	10 but more than
weight loss or gain	1 in 100)
increased sweating	
hair loss • feeling cold	
constipation or diarrhea	
your voice gets deeper	
muscle aches	
changes in sleep patterns	
Inflammation of the pituitary gland (hypophysitis, hypopituitarism,	Common
including secondary adrenal insufficiency)	(less than 1 in
Symptoms may include:	10 but more than
weight loss	1 in 100)
increased sweating, hot flashes	
hair loss (includes facial and pubic)	
feeling cold	
headaches that will not go away or unusual headache	
decreased sex drive	
vision problems	
excessive thirst and urination	
Inflammation of the lungs (pneumonitis)	Common
Symptoms may include:	(less than 1 in
shortness of breath	10 but more than
chest pain	1 in 100)
coughing	

SERIOUS SIDE EFFECTS	How Common	
DURING TREATMENT	is it?	
Problems with muscles	Common	
Symptoms may include:	(less than 1 in	
• rash	10 but more than	
dry skin	1 in 100)	
Problems in other organs (nervous system, eyes)	Common	
Symptoms may include:	(less than 1 in	
tingling, numbness, lack of energy	10 but more than	
changes in eyesight	1 in 100)	
dizziness		
Inflammation of the liver (hepatitis)	Uncommon	
Symptoms may include:	(less than 1 in	
nausea or vomiting	100 but more	
loss of appetite	than 1 in 1000)	
 pain on the right side of your stomach 		
 yellowing of your skin or the whites of your eyes 		
dark urine		
bleeding or bruise more easily than normal		
Inflammation of the kidneys (nephritis)	Uncommon	
Symptoms may include:	(less than 1 in	
 changes in the amount or colour of your urine 	100 but more	
	than 1 in 1000)	
Problems in the pancreas	Rare	
Symptoms may include:	(less than 1 in	
abdominal pain	1000 but more	
nausea and vomiting	than 1 in 10000)	
Blood sugar problems (type 1 diabetes mellitus)	Rare	
Symptoms may include:	(less than 1 in	
hunger or thirst	1000 but more	
a need to urinate more often	than 1 in 10000)	
weight loss		
Infusion reactions	Rare	
Symptoms may include:	(less than 1 in	
• Shortness of breath, itching or rash, dizziness, fever, wheezing,	1000 but more	
flushing, feeling like passing out, chills and may sometimes occur	than 1 in 10000)	
during the first pembrolizumab infusion.		
Reactions are less common with later treatments.		
• Tell your nurse or doctor <i>immediately</i> if you have a reaction during your treatment.		
• Your pembrolizumab may be temporarily stopped and then given more slowly.		
• You may be given other drugs to treat the reaction.		

OTHER SIDE EFFECTS DURING TREATMENT	MANAGEMENT
Pain or tenderness may occur where the needle was placed.	Apply cool compresses or soak in cool water for 15 – 20 minutes several times a day.
Nausea and vomiting may occur after your treatment.	 You may be given a prescription for 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 fluids. Eat and drink often in small amounts. Try the ideas in <i>Practical Tips to Help Manage Nausea</i>* If nausea and vomiting is persistent and you have other symptoms of hepatitis, tell your doctor as soon as possible. (see the table above for serious side effects.)
Fever may sometimes occur.	 Take acetaminophen (e.g., TYLENOL®) every 4-6 hours, to a maximum of 4 g (4000 mg) per day. If you have other symptoms of colitis, tell your doctor as soon as possible. (see the table above for serious side effects.)
Constipation may sometimes occur.	 Exercise if you can. Drink plenty of fluids. Try ideas in <i>Suggestions for Dealing with Constipation.</i>* If you have other symptoms of colitis, tell your doctor as soon as possible. (see the table above for serious side effects.)
Diarrhea may sometimes occur.	 If diarrhea is a problem: Drink plenty of liquids. Eat and drink often in small amounts Avoid high fibre foods as outlined in <i>Food Ideas to Help Manage Diarrhea*</i> If you have other symptoms of colitis, tell your doctor as soon as possible. (see the table above for serious side effects.)
Headache may sometimes occur.	 Take acetaminophen (e.g., TYLENOL®) every 4-6 hours, to a maximum of 4 g (4000 mg) per day. If headache is persistent and you have other symptoms of inflammation of glands or inflammation of the nerves, tell your doctor as soon as possible. (see the table above for serious side effects.)

OTHER SIDE EFFECTS	MANAGEMENT
DURING TREATMENT	
Loss of appetite and weight loss are	• Try the ideas in <i>Food Ideas to Help with</i>
common.	Decreased Appetite.*
	 If loss of appetite is persistent and you have other symptoms of hepatitis, tell your doctor as soon as possible. (see the table above for serious side effects.)
Tiredness and lack of energy may occur.	 Do not drive a car or operate machinery if you are feeling tired.
	 Try the ideas in the handout titled Fatigue/Tiredness*
	 If tiredness is persistent and you have other symptoms of hepatitis or
	inflammation of glands, tell your doctor
	as soon as possible. (see the table above
	for serious side effects.)
Hair loss is rare with pembrolizumab.	 If hair loss is a problem, refer to
	Resources for Hair Loss and
	Appearance Changes.*
You may sometimes have trouble sleeping .	Talk to your doctor if you continue to have
	trouble sleeping.
	This will return to normal when you stop
* Disasa a kana akamati amata a kana	taking pembrolizumab.

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

INSTRUCTIONS FOR THE PATIENT

What other drugs or foods can interact with pembrolizumab?

- Other drugs may interact with this treatment. Check with your doctor or pharmacist before you start or stop taking any other drugs including all prescription and non-prescription medicines, steroids or other medicines that lower your immune response, vitamins, and herbal supplements.
- The drinking of alcohol (in small amounts) does not appear to affect the safety or usefulness of this treatment.

Other important things to know:

- Before you are given pembrolizumab, talk to your doctor or pharmacist if you:
 - have an active condition where your immune system attacks your body (autoimmune disease), such as ulcerative colitis, Crohn's disease, lupus, rheumatoid arthritis or sarcoidosis.
 - take other medicines that make your immune system weak. Examples of these may include steroids, such as prednisone or dexamethasone.
 - had an organ transplant, such as a kidney transplant.
 - have any other medical conditions.
- This treatment may cause sterility in men and menopause in women. If you plan to have children, discuss this with your oncologist before starting treatment.
- This treatment may damage sperm and may cause harm to the baby if used during pregnancy. It is best to use birth control while you are undergoing treatment and for **4**

months after the last dose. Tell your doctor right away if you or your partner becomes pregnant. Do not breast feed during treatment.

• Tell all doctors including dentists you see that you are being treated with pembrolizumab before you receive treatment of any form.

THE FOLLOWING INFORMATION IS VERY IMPORTANT

SEE YOUR DOCTOR OR GET EMERGENCY HELP IMMEDIATELY IF YOU HAVE:

- Signs of an allergic reaction (rare) soon after a treatment including dizziness, fast heart beat, face swelling, or breathing problems.
- Signs of an infection such as fever (over 100°F or 38°C by an oral thermometer), shaking chills; severe sore throat, productive cough (coughing up thick or green sputum); cloudy or foul smelling urine; painful, tender, or swollen red skin wounds or sores.
- Diarrhea or changes in bowel habits; black, tarry stools; blood or mucous in the stool; severe abdominal pain.
- Signs of lung problems such as new or worsening cough, chest pain, coughing blood, shortness of breath, or difficulty in breathing.
- Signs of kidney problems such as lower back or side pain, blood in the urine, swelling of feet or lower legs, or change in amount or colour of urine.
- Signs of blood sugar problems such as thirst and frequent need to pass urine.

SEE YOUR DOCTOR AS SOON AS POSSIBLE (DURING OFFICE HOURS) IF YOU HAVE:

- Signs of anemia such as unusual tiredness or weakness.
- Signs of liver problems such as yellow eyes or skin, white or clay-coloured stools.
- Signs of thyroid problems such as unusual weight gain or loss, feeling hot or cold, deepened voice, or unusual tiredness or weakness.
- Changes in eyesight, eye pain, or redness.
- Skin rash, blisters, or itching.

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

- Headache not controlled with acetaminophen (e.g., TYLENOL®).
- Changes in skin colour (lightening).
- Irritability or forgetfulness.
- Decreased sex drive.

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:

BCCAN MEDICAL CER ALERT Provincial Health Services Authority NAME	SEVERE IMMUNE-MEDIATED ADVERSE REACTIONS Including enterocolitis, intestinal perforation, hepatitis, dermatitis (including toxic epidermal necrolysis), neuropathy, endocrinopathy, pneumonitis, myositis, myocarditis and toxicities in other organ systems. Duration of risk after treatment is unknown.
has received CHECKPOINT INHIBITOR IMMUNOTHERAPY: Immune-Mediated Adverse Reactions ALWAYS CARRY THIS CARD AND SHOW TO PHYSICIANS INCLUDING ANESTHETISTS	FOR MORE INFORMATION: 604-851-4710 BC Cancer - Abbotsford 250-712-3900 BC Cancer - Velowna 250-712-3900 BC Cancer - Prince George 250-645-7300 BC Cancer - Surrey 604-930-4055 BC Cancer - Vancouver 604-877-6000 BC Cancer - Victoria 250-519-5500 www.bccancer.bc.ca/health-professionals/professional-resources/cancer-drug-manual Rev Aug 2018

To Whom It May Concern:	
RE:	
Medical Oncologist	
Immunotherapy Regimen	
This patient is receiving immunotherapy at the BC toxicities which may be life threatening and requi	
Immunotherapy toxicities are different from those or targeted therapies. The immune system may b	
treatment, leading to symptoms and findings which	
events can occur during or following treatment an in the body is at risk including, but not limited to:	id can be life threatening. Any organ system
Lungs (pneumonitis, pleuritis, sarcoidosis) Gastrointestinal (colitis, ileitis, pancreatitis)	
Liver (hepatitis)	
Skin (rash, Stevens-Johnson syndrome) Endocrine (hypophysitis, adrenal insufficiency,	hypo/hyperthyroidism, type 1 diabetes mellitus)
Renal (interstitial nephritis)	
Blood (hemolytic anemia, thrombocytopenia, i Neurologic (encephalitis, Guillain-Barré syndro	neutropenia) ıme, meningitis, myasthenia gravis, neuropathy)
Musculoskeletal (myositis, arthritis)	
Cardiovascular (pericarditis, myocarditis, vascu Ophthalmologic (uveitis, scleritis, episcleritis, c	
Management of immune-related toxicities necessi oncologist with initiation of high dose corticoster	oids, and may require referral to the
appropriate subspecialty. If you suspect your patie toxicity, please contact the patient's medical onc on-call physician, or as per your local centre's proc	ologist directly or if after hours contact the
immunotherapy toxicity treatment algorithms is lo	
protocol at <u>www.bccancer.bc.ca</u> .	
BC Cancer Systemic Therapy Program	1/2
Developed: 28 Nov 2017 Revised:	



BC CANCER CENTRES	CONTACT INFORMATION AND PROCESS
Abbotsford	Contact the patient's medical oncologist immediately by calling the Abbotsford Regional Hospital and Cancer Centre (ARHCC) switchboard at (604) 851-4700 and ask for the on-call medical oncologist (24-hour call system).
Kelowna	Between 8:30 am – 5:00 pm, call (250) 712-3900 (press "8" to speak to the Kelowna Centre receptionist) and have an oncologist paged. Outside these hours, call the Kelowna General Hospital switchboard at (250) 862-4000 and ask for the on-call medical oncologist.
Prince George	Between 8:30 am – 4:00 pm Monday to Friday, call (250) 645-7313. Outside these hours, go to the emergency department at the University Hospital of Northern British Columbia (UHNBC).
Surrey	Between 8:30 am – 4:00 pm Monday to Friday (except Statutory holidays), call the Nursing Phone Line at (604) 930-4053. Outside these hours, call the Surrey Memorial Hospital switchboard at (604) 581-2211 and ask for the Fraser Valley on-call medical oncologist.
Vancouver	Between 8:30 am – 4:30 pm Monday to Friday, call the Patient Nurse Line at (604) 877- 6025. Outside these hours, call the inpatient unit at (604) 877-6000 and press 1, and ask for the on-call medical oncologist.
Victoria	Between 8:30 am – 4:30 pm Monday-Friday (except Statutory holidays), call (250) 519-5500, and press 1 then 4 to speak with a registered nurse. Outside these hours, call the Royal Jubilee Hospital switchboard at (250) 370-8000 and ask for the on-call medical oncologist.

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