

# For the Patient: GOCXBP6

Other Names: BC Cancer Protocol for Maintenance Therapy of Squamous, Adenocarcinoma, or Adenosquamous Cancer of the Cervix with 6-Weekly Pembrolizumab with or without Bevacizumab

GO = Gynecologic Oncology

CX = CerviX

**B**evacizumab **P**embrolizumab

= Given every 6 weeks

#### ABOUT THIS MEDICATION

#### What are these drugs used for?

 Pembrolizumab, with or without bevacizumab, is a drug given to treat some types of cancer including cervical cancer.

# How do these drugs work?

- Pembrolizumab (pem" broe liz' ue mab) 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. Pembrolizumab is referred to as immunotherapy.
- Bevacizumab (be-va-SIZ-yoo-mab) is also a monoclonal antibody, designed to target and interfere with the growth of cancer cells.

#### **INTENDED BENEFITS**

 This treatment is being given to keep cancer from progressing, once it has been successfully controlled with initial chemotherapy treatment.

## TREATMENT SUMMARY

#### How are these drugs given?

- Each medication will be given directly into the vein, intravenously (IV).
- The treatment will be given in 'cycles'. Each cycle length is 6 weeks.
- Pembrolizumab will be given on Day 1 every 6 weeks.
- If bevacizumab is part of your treatment, bevacizumab will be given two times in each 6-week cycle, on Day 1 and on Day 22.

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- Pembrolizumab and bevacizumab will each take approximately 30 minutes to administer.
- Pembrolizumab will continue until 2 years of treatment, or when it is no longer helping, as determined by your oncologist.
- If bevacizumab is part of your treatment, it will continue until it is no longer helping, as determined by your oncologist.

The calendar below outlines your treatment plan.

## If bevacizumab is part of your treatment:

## Cycle 1:

	DATE	TREATMENT PLAN
C Y		➤ Week 1 → Pembrolizumab and bevacizumab on Day 1
С		Week 2 → no treatment
L		Week 3 → no treatment
		Week 4 → Bevacizumab on Day 22
1		Week 5 → no treatment
		Week 6 → no treatment

## If bevacizumab is not part of your treatment:

Cycle 1:

	DATE	TREATMENT PLAN
C Y		➤ Week 1 → Pembrolizumab and bevacizumab on Day 1
С		Week 2 → no treatment
L		Week 3 → no treatment
		Week 4 → no treatment
1		Week 5 → no treatment
		Week 6 → no treatment

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This treatment will continue every 6 weeks, until treatment is completed, as determined by your oncologist.

# What will happen when I get my drugs?

- You will see your clinician and will need to have a blood test before each treatment.
- The dose and timing of your treatment may be changed based on your blood counts and/or other side effects.
- You may be given a prescription for anti-nausea medications (to be filled at your regular pharmacy). If you are given a prescription for them, please bring your antinausea medications with you for each treatment. Your nurse will tell you when to take the anti-nausea medication.
- You may also need to take anti-nausea drugs at home after therapy. It is easier to prevent nausea than to treat it once it has occurred, so follow directions closely.
- Your blood pressure will be checked by a nurse and a urine test will be done before each treatment. For the first three cycles, your blood pressure will be checked both before and after the bevacizumab infusion. The dose and timing of your therapy may be changed based on your blood pressure or urine test results.

#### **OTHER INSTRUCTIONS:**

It is very important to report side effects immediately to your doctor. Do not manage side effects at home without first speaking with your doctor. Be aware that symptoms may be delayed and can develop months after your last dose. If other doctors are involved in your care it is important they know you are on these treatments and the autoimmune side effects they can cause.

#### **INSTRUCTIONS:**

- Tell your doctor if you have ever had an unusual or allergic reaction to pembrolizumab or bevacizumab before starting this treatment.
- The drinking of alcohol (in small amounts) does not appear to affect the safety or usefulness of treatment.
- Pembrolizumab and bevacizumab may harm the baby if used during pregnancy. It is best to use birth control while being treated with these drugs, and for at least 6 months after your last bevacizumab treatment, and 4 months after the last dose of pembrolizumab. Tell your doctor right away if you become pregnant. Do not breastfeed during treatment and for at least 4 months after the last dose of pembrolizumab.
- If you are planning to have **surgery**, you should stop bevacizumab 4 weeks before surgery and not restart bevacizumab until 4 weeks after surgery and only if the surgical wound is fully healed. This helps to lower the risk of bleeding and may prevent problems with wound healing after surgery.

- Tell doctors, dentists and other health professionals that you are being treated with pembrolizumab and bevacizumab before you receive any treatment from them. You should carry the BC Cancer <u>wallet card</u> for pembrolizumab to alert health providers.
- Do not receive any immunizations before discussing with your doctor

## 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 significant medical conditions.

#### **Medication Interactions:**

Other drugs may interact with pembrolizumab and bevacizumab. Tell a member of
your healthcare team if you are taking any other drugs before starting treatment.
Check with your doctor or pharmacist before you start or stop taking any drugs
including all prescription and non-prescription medicines, steroids or other medicines
that lower your immune response, vitamins, and herbal supplements.

#### SIDE EFFECTS AND WHAT TO DO ABOUT THEM

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

#### Are there any risks?

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.

# 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.

The following side effects were most frequently reported:

# Very common (more than 1 in 10 people)

- diarrhea
- itching, rash
- joint pain
- feeling tired
- feeling less hungry
- cough

	How common
SERIOUS SIDE EFFECTS	is it?
Inflammation of the intestines (colitis)	Common
Symptoms may include:	
diarrhea (loose stools) or more bowel movements than usual. Do	(less than 1 in
not treat the diarrhea yourself.	10 but more
blood or mucus in stools or dark, tarry, sticky stools	than 1 in 100)
severe stomach pain (abdominal pain) or tenderness	,
Inflammation of the thyroid gland (hyperthyroidism,	Common
hypothyroidism)	
Symptoms may include:	(less than 1 in
rapid heart beat	10 but more
weight loss or gain	than 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)	
Symptoms may include:	(less than 1 in
weight loss	10 but more
increased sweating, hot flashes	than 1 in 100)
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	

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SERIOUS SIDE EFFECTS	How common is it?
Inflammation of the lungs (pneumonitis)	Common
Symptoms may include:	
shortness of breath	(less than 1 in
chest pain	10 but more
• coughing	than 1 in 100)
Problems with muscles	Common
Symptoms may include:	
back pain	(less than 1 in
• spasms	10 but more
weakness	than 1 in 100)
muscle pain	
Skin problems	Common
Symptoms may include:	
• rash	(less than 1 in
dry skin	10 but more
	than 1 in 100)
Problems in other organs (nervous system, eyes)	Common
Symptoms may include:	
tingling, numbness, lack of energy	(less than 1 in
changes in eyesight	10 but more
• dizziness	than 1 in 100)
Blood sugar problems (type 1 diabetes mellitus)	Common
Symptoms may include:	
hunger or thirst	(less than 1 in
a need to urinate more often	10 but more
weight loss	than 1 in 100)
Inflammation of the liver (hepatitis)	Uncommon
Symptoms may include:	
nausea or vomiting	(less than 1 in
loss of appetite	100 but more
pain on the right side of your stomach	than 1 in 1000)
yellowing of your skin or the whites of your eyes	
dark urine	
bleeding or bruise more easily than normal	
Inflammation of the kidneys (nephritis) Symptoms may include:	Uncommon
<ul> <li>changes in the amount or colour of your urine</li> </ul>	(loss than 1 in
Grianges in the amount of colour of your unite	(less than 1 in
	100 but more
	than 1 in 1000)

SERIOUS SIDE EFFECTS	How common is it?
Problems in the pancreas	Rare
Symptoms may include:	
abdominal pain	(less than 1 in
nausea and vomiting	1000 but more
	than 1 in
	10000)
Infusion reactions	Rare
Symptoms may include:	
shortness of breath	(less than 1 in
itching or rash	1000 but more
dizziness	than 1 in
fever	10000)
wheezing	,
flushing	
feeling like passing out	

# **Management of Other Side Effects**

SIDE EFFECTS	MANAGEMENT
DURING TREATMENT	
Allergic reactions to pembrolizumab or bevacizumab may rarely occur. Signs of an allergic reaction may include flushing, rash, itching, dizziness, changes in blood pressure, chest pain, nausea and vomiting, swelling or breathing problems. This can occur immediately or several hours after receiving pembrolizumab or bevacizumab.	Tell your nurse if this happens while you are receiving treatment or contact your oncologist <i>immediately</i> if this happens after you leave the clinic.
Your white blood cells may decrease after your treatment. They usually return to normal after your last treatment. 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.	<ul> <li>To help prevent infection:</li> <li>Wash your hands often and always after using the bathroom.</li> <li>Avoid crowds and people who are sick.</li> <li>Call your healthcare team <i>immediately</i> at the first sign of an infection such as fever (over 38°C or 100°F by an oral thermometer), chills, cough, or burning when you pass urine.</li> </ul>

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SIDE EFFECTS	MANAGEMENT
DURING TREATMENT	
Pain or tenderness may occur where the needle was placed.	<ul> <li>Apply cool compresses or soak in cool water for 15-20 minutes, several times a day.</li> </ul>
Muscle or joint pain may sometimes occur a few days after your treatment	You may take acetaminophen (e.g., TYLENOL®) every 4-6 hours to a maximum of 4 g (4000 mg) per day. Tell your healthcare team if the pain interferes with your activity.
Tiredness and lack of energy may occur.	<ul> <li>Do not drive a car or operate machinery if you are feeling tired.</li> <li>Try the ideas in Fatigue/Tiredness-patient handout*</li> </ul>
Hair loss is rare with bevacizumab. If you lose hair, it will grow back once you stop treatment. Colour and texture may change.	If hair loss is a problem, refer to     Resources for Hair Loss and     Appearance Changes – Patient     Handout.*
Loss of appetite and weight loss may sometimes occur, and may persist after discontinuation of treatment.	Try the ideas in Food Ideas to Help with Decreased Appetite.*
Constipation may sometimes occur.	<ul> <li>Exercise if you can.</li> <li>Drink plenty of fluids.</li> <li>Try the ideas in Food Choices to Manage Constipation.*</li> </ul>
Headache may occur.	Take acetaminophen (e.g., TYLENOL®) every 4-6 hours if needed, to a maximum of 4 g (4000 mg) per day.

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ur head slightly d back may i your throat. between your apply firm eding nostril for to see if your is, hold it for 10 es and do not ast 12 hours after d. nosebleed lasts
is, s a st d.

<sup>\*</sup>Please ask a member of your healthcare team for a copy.

#### 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 heartbeat, face swelling or breathing problems.
- Signs of an **infection** such as fever (over 38°C or 100°F by an oral thermometer); chills, cough, pain or burning when you pass urine.
- **Diarrhea** or **changes in bowel habits;** black, tarry stools; blood or mucous in the stool; severe abdominal pain
- Signs of **bleeding problems** such as black, tarry stools, blood in urine, pinpoint red spots on skin, extensive bruising.
- Signs of a **blood clot** such as tenderness or hardness over a vein, calf swelling and tenderness, sudden onset of cough, chest pain, or shortness of breath.
- Signs of heart or lung 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 a **stroke** such as sudden onset of severe headache, eyesight changes, slurred speech, loss of coordination, weakness or numbness in arm or leg.
- 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.
- Seizures or fainting.

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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:
<u> </u>

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# **MEDICAL ALERT**

NAME has received

CHECKPOINT INHIBITOR IMMUNOTHERAPY: Immune-Mediated Adverse Reactions

ALWAYS CARRY THIS CARD AND SHOW TO PHYSICIANS INCLUDING ANESTHETISTS

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.

#### FOR MORE INFORMATION:

TOR MORE IN ORDER	
BC Cancer - Abbotsford	604-851-4710
BC Cancer - Kelowna	250-712-3900
BC Cancer - Prince George	250-645-7300
BC Cancer - Surrey	
BC Cancer - Vancouver	
BC Cancer - Victoria	250-519-5500
www.bccancer.bc.ca/health-professionals/professional-resources/ca	incer-drug-manual
Rev Aug 2018	



CER  rouncial Health Services Authority		
To Whom It May Concern:		
RE:		
Medical Oncologist		
Immunotherapy Regimen		

This patient is receiving **immunotherapy** at the BC Cancer and is at risk of **immune-related toxicities** which may be life threatening and require urgent management.

Immunotherapy toxicities are different from those encountered with standard chemotherapy or targeted therapies. The immune system may become dysregulated during immunotherapy treatment, leading to symptoms and findings which mimic autoimmune disorders. Adverse events can occur during or following treatment and can be life threatening. Any organ system in the body is at risk including, but not limited to:

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, neutropenia)

Neurologic (encephalitis, Guillain-Barré syndrome, meningitis, myasthenia gravis, neuropathy)

Musculoskeletal (myositis, arthritis)

Cardiovascular (pericarditis, myocarditis, vasculitis)

Ophthalmologic (uveitis, scleritis, episcleritis, conjunctivitis, retinitis)

Management of immune-related toxicities necessitates prompt coordination with a medical oncologist with **initiation of high dose corticosteroids**, and may require referral to the appropriate subspecialty. If you suspect your patient is presenting with immune-related toxicity, **please contact the patient's medical oncologist** directly or if after hours contact the on-call physician, or as per your local centre's process (next page). Additional information on immunotherapy toxicity treatment algorithms is located at the end of the above posted protocol at <a href="https://www.bccancer.bc.ca">www.bccancer.bc.ca</a>.

BC Cancer Systemic Therapy Program
Developed: 28 Nov 2017 Revised:
www.bccancer.bc.ca
Provincial Health Services Authority

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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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