

## For the Patient: GUAVPEMAX

Other Names: Treatment of Metastatic Renal Cell Carcinoma Using Pembrolizumab and Axitinib

**GU** = **G**enito**U**rinary AV = AdVanced **PEM** = **PEM**brolizumab AX = AXitinib

#### ABOUT THIS MEDICATION COMBINATION

#### What is this treatment used for?

 GUAVPEMAX is a kidney cancer treatment using an intravenous (through the vein) drug called pembrolizumab (pem broe LIZ ue mab) and an oral (taken by mouth) drug called axitinib (ax i' ti nib).

#### How does this treatment work?

- Pembrolizumab is a type of therapy called immunotherapy. It is an antibody designed to help your own body's immune system target cancer cells to stop them from growing.
- Axitinib works by interfering with certain enzymes called tyrosine kinases that are important in transmitting the chemical signals needed for essential processes like cell division and replication in cancer cells.

#### INTENDED BENEFITS

 This treatment is being given to slow down the growth and destroy 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 regimen given?

- Pembrolizumab will be given to you as an infusion (a drip) into a vein (intravenously)
- You will be treated with pembrolizumab once every 3 weeks. This 3 weeks period is called a "cycle". The cycle is repeated as long as you are benefiting from treatment and not having too many side effects up to a maximum of 35 cycles or 2 years.
- Axitinib is taken by mouth twice a day, continuously, as long as you are benefiting from treatment and not having too many side effects.
- Axitinib should be swallowed whole with a glass of water, and may be taken with food or on an empty stomach.

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# What will happen while I am being treated?

- A blood test is done within one month of starting treatment.
- A blood test is done before receiving each treatment cycle, usually at the time you see your oncologist.
- The dose of your treatment may be changed or held based on your blood test results and/or other side effects.

#### **OTHER INSTRUCTIONS**

It is very important to report side effects immediately to your doctor. Do not manage side effects at home without 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.

### What other drugs or foods can interact with GUAVPEMAX?

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

## Important things to know about pembrolizumab:

- Before you are given pembrolizumab, talk to your doctor or pharmacist if you:
  - o 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.
  - o take other medicines that make your immune system weak. Examples of these may include steroids, such as prednisone or dexamethasone.
  - o had an organ transplant, such as a kidney transplant.
  - have any other medical conditions.
- It is very important to tell your doctor immediately if you have, or develop, any of the symptoms listed under Serious Side Effects. Do not try to treat or diagnose symptoms yourself.
- You may have a transient worsening of disease before the tumour shrinks.
- Pembrolizumab may damage sperm and may harm the baby if used during pregnancy. You must use birth control while being treated with pembrolizumab and for at least 4 months after your last dose. Tell your doctor right away if you or your partner becomes pregnant.
- Pembrolizumab may pass into your breast milk. Do not breastfeed during treatment
- Tell doctors or dentists that you are being treated with pembrolizumab before you receive any treatment from them. You should carry the BC Cancer wallet card for pembrolizumab to alert health providers.
- Do not receive any immunizations before discussing with your doctor

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### Important things to know about axitinib:

- It is very important to tell your doctor or get emergency help immediately if you have:
  - Signs of **stroke** such as sudden onset of severe headache, eyesight changes, slurred speech, loss of coordination, weakness or numbness in arm or leg.
  - Signs of infection such as fever (over 100°F or 38°C by an oral thermometer), shaking chills; severe sore throat, productive couth (coughing up thick or green sputum); cloudy or foul-smelling urine; painful, tender, or swollen red skin wounds or sores.
  - Signs of bleeding problems such as black, tarry stools; blood in urine; pinpoint red spots on skin; extensive bruising; coughing up blood, or nosebleeds.
  - Signs of blood clot such as tenderness or hardness over a vein, calf swelling and tenderness, sudden onset of cough, chest pain, or shortness of breath.
- Axitinib may damage sperm and may harm the baby if used during pregnancy. You
  must use birth control while being treated with axitinib. Tell your doctor right away if
  you or your partner becomes pregnant.
- Axitinib may pass into your breast milk. Do not breastfeed during treatment.
- Tell doctors or dentists that you are being treated with pembrolizumab before you receive any treatment from them. If you are planning to have surgery, you should stop taking axitinib 24 hours prior to surgery. Do not restart axitinib until the surgical wound is fully healed. This helps to lower the risk of bleeding and may prevent problems with wound healing after surgery.

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## SIDE EFFECTS AND WHAT TO DO ABOUT THEM

### 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 may cause serious immune reactions against your own body (autoimmune) affecting many parts.
- The following side effects were most frequently reported:
  - diarrhea
  - itching, rash
  - joint pain
  - feeling tired
  - feeling less hungry
  - cough
- 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.

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# SERIOUS SIDE EFFECTS (IMMUNE RELATED) ASSOCIATED WITH PEMBROLIZUMAB

SERIOUS SIDE EFFECTS	How common is it?
Inflammation of the intestines (colitis)	Common
Symptoms may include:	
<ul> <li>diarrhea (loose stools) or more bowel movements than usual. Do not treat the diarrhea</li> </ul>	(less than 1 in 10 but
yourself.	more than 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:	
rapid heart beat	(less than 1 in 10 but
weight loss or gain	more 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, including secondary	Common
adrenal insufficiency)	
Symptoms may include:	(less than 1 in 10 but
weight loss	more than 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	

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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 10 but
chest pain	more than 1 in 100)
coughing	
Problems with muscles	Common
Symptoms may include:	
back pain	(less than 1 in 10 but
• spasms	more than 1 in 100)
weakness	
muscle pain	
Skin problems	Common
Symptoms may include:	
• rash	(less than 1 in 10 but
dry skin	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 10 but
changes in eyesight	more than 1 in 100)
• dizziness	
Inflammation of the liver (hepatitis)	Uncommon
Symptoms may include:	
nausea or vomiting	(less than 1 in 100 but
loss of appetite	more 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	

SERIOUS SIDE EFFECTS	How common is it?
Inflammation of the kidneys (nephritis)	Uncommon
Symptoms may include:	
changes in the amount or colour of your urine	(less than 1 in 100 but
	more than 1 in 1000)
Problems in the pancreas	Rare
Symptoms may include:	
abdominal pain	(less than 1 in 1000
nausea and vomiting	but more than 1 in
	10000)
Blood sugar problems (type 1 diabetes mellitus)	Rare
Symptoms may include:	
hunger or thirst	(less than 1 in 1000
a need to urinate more often	but more than 1 in
weight loss	10000)
Infusion reactions	Rare
Symptoms may include:	
shortness of breath	(less than 1 in 1000
itching or rash	but more than 1 in
dizziness	10000)
fever	
wheezing	
• flushing	
feeling like passing out	

# MANAGEMENT OF NON-IMMUNE RELATED SIDE EFFECTS ASSOCIATED WITH PEMBROLIZUMAB AND **AXITINIB**

OTHER SIDE EFFECTS	How common is it?	MANAGEMENT
Your white blood cells may decrease during your 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.	Sometimes	<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 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.</li> </ul>
Your platelets may decrease during your treatment. Platelets help to make your blood clot when you hurt yourself. You may bruise or bleed more easily than usual.	Sometimes	<ul> <li>To help prevent bleeding problems:</li> <li>Try not to bruise, cut, or burn yourself.</li> <li>Clean your nose by blowing gently. Do not pick your nose.</li> <li>Avoid constipation.</li> <li>Brush your teeth gently with a soft toothbrush as your gums may bleed more easily. Maintain good oral hygiene.</li> <li>Some medications such as ASA (e.g., ASPIRIN®) or ibuprofen (ADVIL®) may increase your risk of bleeding.</li> <li>Do not stop taking any medications that has been prescribed by your doctor (e.g. ASA for your heart).</li> <li>For minor pain, try acetaminophen (e.g. TYLENOL®), to a maximum of 4 g (4000 mg) per day.</li> </ul>
High blood pressure may sometimes occur. This can happen very quickly after starting treatment.	Sometimes	<ul> <li>Your blood pressure will be checked during your visits to your doctor.</li> <li>You may be asked to check your blood pressure frequently between visits.</li> <li>Your doctor may give you medication if your blood pressure is high.</li> <li>Tell your doctor if you are already on blood pressure medication. Your doctor may have to adjust your dose.</li> </ul>

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OTHER SIDE EFFECTS	How common is it?	MANAGEMENT
Sore mouth may sometimes occur a few days after 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.	Sometimes	<ul> <li>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.</li> <li>Make a mouthwash with ½ teaspoon baking soda or salt in 1 cup of warm water and rinse several times a day.</li> <li>Try the ideas in Food Ideas to Try with a Sore Mouth.*</li> </ul>
Hand-foot skin reaction may sometimes occur during 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.	Sometimes	<ul> <li>Avoid tight-fitting shoes or rubbing pressure to hands and feet, such as that caused by heavy activity.</li> <li>Avoid tight-fitting jewellery.</li> <li>Clean hands and feet with lukewarm water and gently pat to dry; avoid hot water.</li> <li>Apply a sunscreen with SPF (sun protection factor) of at least 30.</li> <li>Apply lanolin-containing creams (e.g., BAG BALM®, UDDERLY SMOOTH®) to hands and feet, liberally and often.</li> <li>Tell your cancer doctor or your nurse at the next visit if you have any signs of hand-foot skin reaction as your dose may need to be changed.</li> </ul>
Nausea and vomiting may occur after your treatment. Most people have little or no nausea.	Rare	<ul> <li>You may be given a prescription for antinausea drug(s) to take before your treatment and/or at home. It is easier to prevent nausea than treat it once it has occurred, so follow directions closely.         <ul> <li>Drink plenty of fluids.</li> <li>Eat and drink often in small amounts.</li> </ul> </li> <li>Try the ideas in Food Choices to Help Control Nausea.*         <ul> <li>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.)</li> </ul> </li> </ul>

OTHER SIDE EFFECTS	How common is it?	MANAGEMENT
Constipation may sometimes occur.	Sometimes	<ul> <li>Exercise if you can.</li> <li>Drink plenty of fluids.</li> <li>Try ideas in Suggestions for Dealing with Constipation.*</li> <li>If you have other symptoms of colitis, tell your doctor as soon as possible. (see the table above for serious side effects.)</li> </ul>
Fever may sometimes occur.	Sometimes	<ul> <li>Take acetaminophen (e.g., TYLENOL®) every 4-6 hours, to a maximum of 4 g (4000 mg) per day.</li> <li>If you have other symptoms of <b>colitis</b>, tell your doctor as soon as possible. (see the table above for serious side effects.)</li> </ul>
Headache may sometimes occur.	Sometimes	<ul> <li>Take acetaminophen (e.g., TYLENOL®) every 4-6 hours if needed, to a maximum of 4 g (4000 mg) per day.</li> <li>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.)</li> </ul>
Loss of appetite and weight loss sometimes occur.	Sometimes	<ul> <li>Try the ideas in Food Ideas to Help with Decreased Appetite.</li> <li>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.)</li> </ul>
<b>Hair loss</b> is rare with pembrolizumab and axitinib.	Rare	If hair loss is a problem, refer to For the Patient: Hair Loss     Due to Chemotherapy.*
Pain or tenderness may occur where the needle was placed.	Very rare	Apply cool compresses or soak in cool water for 15-20 minutes several times a day.

\*Please ask your oncologist or pharmacist for a copy.

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

CAN CER Provincial Health Services Authority NAME	MEDICAL ALERT
has re	eceived

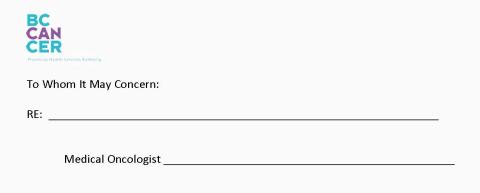
has received
CHECKPOINT INHIBITOR IMMUNOTHERAPY:
Immune-Mediated Adverse Reactions
ALWAYS CARRY THIS CARD AND SHOW TO
PHYSICIANS INCLUDING ANESTHETISTS

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.

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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)

Immunotherapy Regimen \_\_\_\_\_

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 www.bccancer.bc.ca.

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

Developed: 1 March 2021 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 $8:30\text{am}-4:30\text{pm}$ 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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