BC Cancer Protocol Summary for Treatment of Metastatic or Advanced Renal Cell Carcinoma Using 4-Weekly Nivolumab

Protocol Code GUAVNIV4

Tumour Group Genitourinary

Contact Physician Dr. C. Kollmannsberger

ELIGIBILITY:

Patients must have:

- Metastatic or advanced renal cell carcinoma,
- Any histology and IMDC risk group, and
- Failure of first-line tyrosine kinase inhibitor (TKI) therapy (SUNItinib, SORAfenib, or pazopanib), or
- Third-line therapy after failure of first-line (SUNItinib, SORAfenib or pazopanib) and second-line TKI (axitinib or cabozantinib), and
- Access to a treatment centre with expertise to manage immune-mediated adverse reactions of nivolumab.

Patients should have:

- Good performance status, and
- Adequate hepatic and renal function.

Notes:

- Patients are eligible to receive nivolumab or everolimus, but not sequential use of these agents.
- May receive GUAVNIV4 if relapsed greater than 6 months after GUAJPEM or GUAJPEM6, if all other eligibility criteria are met.

EXCLUSIONS:

Patients must not have:

- ECOG performance status greater than 2, and
- Active central nervous system metastases (should be asymptomatic and/or stable)

CAUTIONS:

- Active autoimmune disease, and
- Long term immunosuppressive therapy or systemic corticosteroids (Requiring more than 10 mg predniSONE/day or equivalent)

TESTS:

- Baseline: CBC & Diff, creatinine, alkaline phosphatase, ALT, total bilirubin, LDH, sodium, potassium, TSH, morning serum cortisol, chest x-ray (or CT chest)
- Before each treatment: CBC & Diff, creatinine, alkaline phosphatase, ALT, total bilirubin, LDH, sodium, potassium, TSH
- If clinically indicated: chest x-ray, morning serum cortisol, lipase, random glucose, serum or urine HCG (required for women of childbearing potential if pregnancy suspected), free T3 and free T4, serum ACTH levels, testosterone, estradiol, FSH, LH, ECG
- Weekly telephone nursing assessment for signs and symptoms of side effects while on treatment (Optional).

PREMEDICATIONS:

- Antiemetics are not usually required
- Antiemetic protocol for low emetogenic chemotherapy protocols (see <u>SCNAUSEA</u>)
- If prior infusion reactions to nivolumab: diphenhydrAMINE 50 mg PO, acetaminophen 325 to 975 mg PO and hydrocortisone 25 mg IV 30 minutes prior to treatment.

TREATMENT:

Drug	Dose	BC Cancer Administration Guideline
nivolumab	6 mg/kg	IV in 50 to 100 mL NS over 30 minutes
	(maximum 480 mg)	Using a 0.2 micron in-line filter

Repeat every 4 weeks until disease progression or unacceptable toxicity

DOSE MODIFICATIONS:

No specific dose modifications. Toxicity managed by treatment delay and other measures (see <u>SCIMMUNE</u> protocol for management of immune-mediated adverse reactions to checkpoint inhibitors immunotherapy).

PRECAUTIONS:

- 1. Serious immune-mediated reactions: can be severe to fatal and usually occur during the treatment course, but may develop months after discontinuation of therapy. They may include enterocolitis, intestinal perforation or hemorrhage, hepatitis, dermatitis, neuropathy, endocrinopathy, pneumonitis, as well as toxicities in other organ systems. Early diagnosis and appropriate management are essential to minimize life-threatening complications (see SCIMMUNE protocol for management of immune-mediated adverse reactions to checkpoint inhibitors immunotherapy).
- 2. Infusion-related reactions: isolated cases of severe infusion reactions have been reported. Discontinue nivolumab with Grade 3 or 4 reactions. Patients with mild or moderate infusion reactions may receive nivolumab with close monitoring and use of premedication.

Call Dr. Kollmannsberger or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

References:

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- Zhao X, Ivaturi V, Gopalakrishnan M, et al. Abstract CT101: A model-based exposure-response (ER) assessmen t of a nivolumab (NIVO) 4-weekly (Q4W) dosing schedule across multiple tumor types. Cancer Res 2017;77(13 s uppl):DOI: 10.1158/1538-7445.AM2017-CT