

BC Cancer Protocol Summary for the Adjuvant Treatment of Resected Stage III – IV NED Melanoma Using Pembrolizumab

Protocol Code

USMAJPEM

Tumour Group

Skin and Melanoma

Contact Physician

Dr. Vanessa Bernstein

ELIGIBILITY:

- Cutaneous or mucosal melanoma stage IIIA to IV NED (AJCC 8th edition). Disease metastasized to the regional nodes (if stage IIIA and only one node involved then metastatic deposit \geq 1 mm), in-transit metastases or distant metastases must be completely surgically resected.
- Brain metastases must be completely resected (or definitively treated with stereostatic radiation)
- Adequate baseline hematological, renal and liver functions
- Access to a treatment centre with expertise in managing immunotherapy mediated toxicities
- BC Cancer Compassionate Access Program (CAP) approval must be obtained. CAP approval is not required to switch between USMAJPEM and USMAJPEM6.
* Patients can receive one year of either adjuvant pembrolizumab, nivolumab OR combination dabrafenib/trametinib. Patients with BRAF mutated melanoma who are unable to tolerate up to a 3-month trial of combination dabrafenib/trametinib due to toxicities can apply for adjuvant pembrolizumab and complete a total of one year of therapy. A switch to combination cobimetinib/vemurafenib is not funded.

EXCLUSIONS:

- A history of a severe auto-immune disease that would preclude treatment with a checkpoint inhibitor
- Chronic use of systemic glucocorticoids greater than the equivalent of 10 mg oral daily predniSONE. Inhaled steroids are allowed.
- ECOG performance status >2
- Uveal or ocular melanoma

TESTS:

- Baseline: CBC & differential, platelets, creatinine, alkaline phosphatase, ALT, total bilirubin, LDH, sodium, potassium, TSH, morning serum cortisol, appropriate imaging (at least a baseline CXR if no baseline chest CT)
- Before each treatment: CBC & differential, platelets, creatinine, alkaline phosphatase, ALT, total bilirubin, LDH, sodium, potassium, TSH
- If clinically indicated: chest x-ray, morning serum cortisol, lipase, serum or urine HCG (required for woman of child bearing potential if pregnancy suspected), Free T3 and Free T4, serum ACTH levels, testosterone, estradiol, FSH, LH, glucose, 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 emetogenicity (see SCNAUSEA).
- If prior infusion reactions to pembrolizumab: 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 |
|---------------|-----------------------------|---|
| pembrolizumab | 2 mg/kg (maximum 200 mg) | IV in 50 mL NS over 30 minutes using a 0.2 micron in-line filter |

- Repeat **every 3 weeks** for 18 cycles* maximum (Approx. 1 year), unless disease progression or unacceptable toxicity.*Includes cycles received as USMAJPEM6.

DOSE MODIFICATIONS:

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

http://www.bccancer.bc.ca/chemotherapy-protocols-site/Documents/Supportive%20Care/SCIMMUNE_Protocol.pdf)

PRECAUTIONS:

- **Serious immune-mediated reactions:** these can be severe to fatal and usually occur during the treatment course. They may include enterocolitis, intestinal perforation or hemorrhage, hepatitis, dermatitis, neuropathy, endocrinopathy, 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,** http://www.bccancer.bc.ca/chemotherapy-protocols-site/Documents/Supportive%20Care/SCIMMUNE_Protocol.pdf)
- **Infusion-related reactions:** isolated cases of severe reaction have been reported. In case of a severe reaction, pembrolizumab infusion should be discontinued and appropriate medical therapy administered. Patients with mild or moderate infusion reaction may receive pembrolizumab with close monitoring. Premedications with acetaminophen and anti-histamine may be considered if there is a history of reaction.

Call Dr. Vanessa Bernstein or tumour group delegate at 250-519-5570 or 1-800-670-3322 with any problems or questions regarding this treatment program.

References:

1. Eggermont *et. al.* Adjuvant Pembrolizumab versus Placebo in Resected Stage III Melanoma. *N Engl J Med* 2018; 378:1789-1801
2. Merck Canada Inc.: KEYTRUDA (pembrolizumab) product monograph. Kirkland, Quebec: 20 September 2019.
3. Pan-Canadian Oncology Drug Review. Expert Review Committee final recommendation on pembrolizumab (Keytruda) for the adjuvant treatment of patients with stage IIIA (limited to lymph node metastasis of > 1 mm) to stage IIID (8th edition of the American Joint Committee on Cancer [AJCC] staging system) cutaneous melanoma. 1 August 2019.