BC Cancer Protocol Summary for Palliative Therapy for Metastatic Breast Cancer using Weekly PACLitaxel (3 Weeks out of 4 Weeks Schedule)

Protocol Code:

Tumour Group:

Contact Physician:

Dr. Nathalie LeVasseur

BRAVTW

Breast

ELIGIBILITY:

- First, second, or third line treatment of metastatic breast cancer patients with ECOG performance status 0, 1, or 2, and greater than 3 month life expectancy
- Patients unable to tolerate BRAVTAX, such as those with limited marrow reserve, or who are frail and / or elderly

TESTS:

- Baseline: CBC & diff, platelets, bilirubin, ALT
- Baseline if clinically indicated: alk phos, LDH, GGT, CA15-3
- Prior to each treatment: CBC & diff, platelets
- If clinically indicated: bilirubin, ALT

PREMEDICATIONS:

- PACLitaxel must not be started unless the following drugs have been given:
 - 45 minutes prior to PACLitaxel: dexamethasone 10 mg IV in 50 mL NS over 15 minutes
 - 30 minutes prior to PACLitaxel: diphenhydrAMINE 25 mg IV in NS 50 mL over 15 minutes and famotidine 20 mg IV in NS 100 mL over 15 minutes (Y-site compatible)
- If no PACLitaxel infusion reactions occur, no premedications may be needed for subsequent PACLitaxel doses and may be omitted at physician's discretion.
- If infusion reactions occur, premedications for re-challenge include dexamethasone 20 mg PO given 12 hours and 6 hours prior to treatment, plus IV premedications given 30 minutes prior to PACLitaxel: dexamethasone 20 mg, diphenhydrAMINE 50 mg, and H₂-antagonist (e.g., famotidine 20 mg). If no infusion reactions occur, standard premedications (see above) will be used for subsequent PACLitaxel doses.
- Additional antiemetics not usually required.

BC Cancer Protocol Summary BRAVTW Page 1 of 4 Activated: 1 Dec 2014 Revised: 1 Feb 2024 (Premedication, precautions, physician name and contact number updated. Deleted 25 mg dose for IV diphenhydrAMINE under Infusion-related reactions.) Warning: The information contained in these documents are a statement of consensus of BC Cancer professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgment in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is at your own risk and is subject to BC Cancer's terms of use available at <u>www.bccancer.bc.ca/terms-of-use</u>

TREATMENT:

Drug	Dose	BC Cancer Administration Guideline
PACLitaxel	90 mg/m ² once weekly x 3 weeks, then 1 week rest	IV in 100 to 500 mL NS over 1 hour (use non-DEHP bag and non-DEHP tubing with 0.2 micron in-line filter)

- Cycle length = 4 weeks, repeat every 28 days until disease progression
- **Discontinue** if progression or lack of clinical benefit after 3 cycles.

DOSE MODIFICATIONS:

1. Hematological

ANC (x 10 ⁹ /L)		Platelets (x 10 ⁹ /L)	Dose	Dose after Neutropenic Sepsis on PACLitaxel
greater than or equal to 1.0	and	greater than or equal to 100	90 mg/m ²	65 mg/m²
less than 1.0	or	less than 100	Contact Physician: Delay treatment. Reduce next dose to 65 mg/m ²	delay

Note: patients who cannot tolerate treatment after a dose reduction or require a treatment delay of greater than 2 weeks, should discontinue treatment.

2. Non-Hematological Toxicity

Grade	Dose
Grade 2 motor or sensory neuropathy	Decrease dose by 10 mg/m ²
All other grade 2 non- hematological toxicity	Hold treatment until toxicity resolved to less than or equal to grade 1 Decrease subsequent doses by 10 mg/m ²
greater than or equal to Grade 3	Discontinue treatment

Note: patients who cannot tolerate treatment after 2 dose reductions or require a treatment delay of greater than 2 weeks, should discontinue treatment

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3. Hepatic Dysfunction

Bilirubin (micromol/L)		ALT	Dose (mg/m ²)
less than or equal to 25	and	less than 2 x ULN	90 mg/m ²
less than or equal to 25	and	greater than or equal to 2 x ULN with no liver metastases or greater than or equal to 5 x ULN with liver metastases	65 mg/m²
26-50			40 mg/m ²
greater than 50			25 mg/m ²

ULN = upper limit of normal

- **4.** <u>Arthralgia and/or myalgia</u>: If arthralgia and/or myalgia of grade 2 (moderate) or higher is not relieved by adequate doses of NSAIDs or acetaminophen with codeine (e.g., TYLENOL #3®), a limited number of studies report a possible therapeutic benefit using:
 - predniSONE 10 mg po bid x 5 days starting 24 hours post-paclitaxel
 - gabapentin 300 mg po on day before chemotherapy, 300 mg bid on treatment day, then 300 mg tid x 7-10 days

If arthralgia and/or myalgia persist, reduce subsequent PACLitaxel doses to 65 mg/m².

4. <u>Neuropathy</u>: Dose modification or discontinuation may be required (see BC Cancer Drug Manual).

PRECAUTIONS:

1. Infusion-related reactions: Reactions to paclitaxel are common. See BC Cancer <u>SCDRUGRX</u>.

<u><i>Mild</i></u> symptoms (e.g. mild flushing, rash, pruritus)	 complete PACLitaxel infusion. Supervise at bedside no treatment required
<u>moderate</u> symptoms (e.g. moderate rash, flushing, mild dyspnea, chest discomfort, mild hypotension	 stop PACLitaxel infusion give IV diphenhydrAMINE 50 mg and Hydrocortisone IV 100 mg after recovery of symptoms resume PACLitaxel infusion at 20 mL/h for 5 minutes, 30 mL/h for 5 minutes, 40 mL/h for 5 minutes, then 60 mL/h for 5 minutes. If no reaction, increase to full rate. if reaction recurs, discontinue PACLitaxel therapy
<u>severe</u> symptoms (i.e. <u>one</u> or more of respiratory distress requiring treatment, generalised urticaria, angioedema, hypotension requiring therapy)	 stop PACLitaxel infusion give IV antihistamine and steroid as above. Add epinephrine or bronchodilators if indicated discontinue PACLitaxel therapy

BC Cancer Protocol Summary BRAVTW

Page 3 of 4

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- **2. Extravasation**: PACLitaxel causes pain and tissue necrosis if extravasated. Refer to BC Cancer Extravasation Guidelines.
- **3.** Neutropenia: Fever or other evidence of infection must be assessed promptly and treated aggressively.

Call Dr. Nathalie LeVasseur or tumour group delegate at (604) 930-2098 or 1-800-663-3333 with any problems or questions regarding this treatment program.

References:

- 1. Miller K, et al. Paclitaxel plus Bevacizumab versus Paclitaxel alone for metastatic breast cancer. N Engl J Med 2007;357:2666-76.
- 2. Rugo HS, et al. Randomized phase III trial of weekly paclitaxel compared to weekly nanoparticle albumin bound nab-paclitaxel or ixabepilone with or without bevacizumab as first line therapy for locally recurrent or metastatic breast cancer. J Clin Oncol 2012;30(18)suppl:CRA1002
- 3. Perez EA, et al. Multicenter phase II trial of weekly paclitaxel in women with metastatic breast cancer. J Clin Oncol 2001;19(22):4216-23.
- 4. Quock J, et al. Premedication strategy for weekly paclitaxel. Cancer Invest 2002;20(5-6):666-72.
- 5. Loesch D, et al. Phase II multicenter trial of a weekly paclitaxel and carboplatin regimen in patients with advanced breast cancer. J Clin Oncol 2002;20(18):3857-64.
- 6. Wildiers H, Paridaens R. Taxanes in elderly breast cancer patients. Cancer Treat Rev 2004;30(4):333-42.