BC Cancer Protocol for Primary Adjuvant Treatment of Adenocarcinoma/Adenosquamous Cancer of the Cervix with CARBOplatin and PACLitaxel Preceding or Following Irradiation with or without CISplatin

Protocol Code GOCXAJCAT

Tumour Group Gynecology

Contact Physician Dr. Paul Hoskins

ELIGIBILITY:

- Adenocarcinoma or adenosquamous histology
- Stage 1a if node-positive and patient will be receiving RT +/- GOCXCRT
- Stage 1b to 4a and will be receiving RT +/- GOCXCRT

EXCLUSIONS:

- any small cell or neuroendocrine component
- pure squamous cell histology
- Stage 4b or recurrent cancer use GOCXCAT

RELATIVE CONTRAINDICATIONS:

- pre-existing motor or sensory neuropathy greater than grade 2
- creatinine greater than 150 micromol/L
- neutrophils less than 1.0 x 10⁹/L

TESTS:

- Baseline: CBC & diff, platelets, creatinine, bilirubin, ALT, alkaline phosphatase, GGT
- Optional at baseline: tumor marker(s) as appropriate e.g., CA 125, CA 15-3, CA 19-9, CEA, SCC
- Optional: Day 14 (and Day 21 if using 28-day interval) after first cycle (and in subsequent cycle if dose modification made): CBC & diff
- Before each subsequent treatment: CBC & diff, creatinine, any initially elevated tumor marker
- Before each subsequent treatment only if clinically indicated: bilirubin, ALT, alkaline phosphatase, GGT, LDH, total protein, albumin, potassium, magnesium
- Consider repeating any positive imaging studies after 2 cycles, to assess response

PREMEDICATIONS:

- PACLitaxel must not be started unless the following drugs have been given:
 - 45 minutes prior to PACLitaxel:
 - dexamethasone 20 mg IV in 50 mL NS over 15 minutes
 - 30 minutes prior to PACLitaxel:
 - diphenhydrAMINE 50 mg IV in NS 50 mL over 15 minutes and famotidine 20 mg IV in NS 100 mL over 15 minutes (Y-site compatible)
- ondansetron 8 mg PO 30 minutes pre-CARBOplatin

ANTIEMETIC THERAPY POST-CHEMOTHERAPY:

- Antiemetic protocol for moderate emetogenic chemotherapy protocols (see SCNAUSEA)
- dexamethasone 4 mg PO BID for 4 doses

BC Cancer Protocol Summary

GOCXAJCAT

TREATMENT (give PACLitaxel first):

Drug	Starting Dose	BC Cancer Administration Guideline
PACLitaxel	175 mg/m ²	IV in 250 to 500 mL NS over 3 hours
	(or conservative dosing of 155 mg/ m² or 135 mg/ m²)*	(use non-DEHP bag and non-DEHP tubing with 0.2 micron in-line filter)
CARBOplatin	Dose = AUC 6 x (GFR +25)	IV in 100 to 250 mL NS over 30 minutes
	(or conservative dosing of AUC 5)*	

^{*} Conservative dosing may be considered in the following cases: existing or potential myelosuppression; existing or potential arthralgia and myalgia; reduced bone marrow capacity, age greater than 75 years.

Cockcroft-Gault Formula (cap at 125 mL/min)

Repeat every 21 (preferred) or 28 days, for 3 cycles.

DOSE MODIFICATIONS:

1. Hematological:

a) on treatment day (may use results within 96h):

ANC (x 10 ⁹ /L)		Platelets (x 10 ⁹ /L)	Doses (both drugs)
greater than or equal to 1.0	and	greater than or equal to 100	treat as per nadir
less than 1.0	or	less than 100	delay until recovery

b) at nadir:

b) at hadin					
ANC (x 10 ⁹ /L)		Platelets (x 10 ⁹ /L)	PACLitaxel	CARBOplatin	
greater than or equal to 0.5	and	greater than or equal to 75	100%	100%	
less than 0.5	and	less than or equal to 75	80%	80%	
less than 0.5	and	greater than or equal to 75	80%	100%	
greater than or equal to 0.5	and	less than or equal to 75	100%	80%	
Febrile neutropenia at any time			80%	80%	

- 2. **Arthralgia and/or myalgia**: If arthralgia and/or myalgia of grade 2 (moderate) or higher, a limited number of studies report a possible preventative therapeutic benefit using:
 - (*Preferred option*) gabapentin 300 mg PO on day before chemotherapy, 300 mg bid on treatment day, then 300 mg tid x 5 to 10 days to match the duration of arthromyalgia symptoms.
 - (*Alternate option*) predniSONE 10 mg PO bid x 5 days starting 24 hours post-PACLitaxel If arthralgia and/or myalgia persists, reduce subsequent PACLitaxel doses to 155 mg/m² or 135 mg/m²
- 3. Neuropathy: Dose modification or discontinuation may be required (see BC Cancer Drug Manual).
- 4. **Renal dysfunction**: If significant increase (greater than 20%) in creatinine, recalculate CARBOplatin dose using new GFR.
- 5. Hepatic dysfunction: Dose reduction may be required for PACLitaxel (see BC Cancer Drug Manual)

- 6. **Severe Paclitaxel hypersensitivity/allergy** thought to be not manageable with increased pretreatment Dexamethasone, switch to GOCXCAD.
- 7. **Vomiting**: consider adding a NK1 receptor antagonist e.g., aprepitant.

PRECAUTIONS:

1. Hypersensitivity: Reactions are common. See BC Cancer Hypersensitivity Guidelines

<u>mild</u> symptoms (e.g. mild flushing, rash, pruritus)	 complete PACLitaxel infusion. Supervise at bedside no treatment required consider altering Dexamethasone premedication in next cycle to 20 mg PO 12 hours and 6 hours prior to PACLitaxel infusion (in place of usual 20 mg IV dose 45 minutes prior to PACLitaxel infusion)
moderate symptoms (e.g. moderate rash, flushing, mild dyspnea, chest discomfort, mild hypotension	 stop PACLitaxel infusion give IV diphenhydrAMINE 25 to 50 mg and IV 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 consider altering Dexamethasone premedication in next cycle to 20 mg PO 12 hours and 6 hours prior to PACLitaxel infusion (in place of usual 20 mg IV dose 45 minutes prior to PACLitaxel infusion)
<u>severe</u> symptoms (i.e. <u>one</u> or more of respiratory distress requiring treatment, generalized urticaria, angioedema, hypotension requiring therapy)	 stop PACLitaxel infusion give IV antihistamine and steroid as above. Add epinephrine or bronchodilators if indicated discontinue PACLitaxel therapy consider GOCXCAD for next cycle

- 2. **Extravasation**: PACLitaxel causes pain and may, rarely, cause 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. Paul Hoskins or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

References

Tang J, et al. Chemoradiation and adjuvant chemotherapy in advanced cervical adenocarcinoma. Gynecol Oncol 2012;125:297-302.