

Systemic Therapy Education Bulletin

BC Cancer news and updates from across the province for Systemic Therapy teams

Provincial Systemic Therapy Drug Programs Under Consideration

The goal of the Education Bulletin is to support health care staff as they prepare for new treatments and to ensure safe patient care during the administration, distribution and management of new and complex treatments. These new drug treatments may also be delivered to patients prior to formal listing through manufacturer patient support programs or clinical trials. Full details around the funded indications and eligibility criteria will be available in the Protocol Summaries and summarized in the Systemic Therapy Update newsletter once funding decisions have been finalized. More details about the drugs, approved indications, and side effects can be found in the BC Cancer drug monographs, accessible from the Cancer Drug Manual <u>Drug Index</u>.

GOTDLRA

Treatment	Indication: Under Review	Associated Adverse Events
Programs	(Refer to protocol for more details)	
<u>Dactinomycin</u>	Therapy for Low Risk Gestational	Possible a dverse events (of any grade):
	Trophoblastic Cancer	 Myelosuppression
		o Anemia
		 Thrombocytopenia
		 Ne utro penia
		o leukopenia
		 Rash
		 Mucositis
		Na usea and vomiting
		 Stomatitis
		Hepatotoxidty

Dosing and Administration Information

Pre-medications:

• Antiemetic: moderate emetogenicity (see SCNAUSEA)

Dosing and Schedule:

- Dactinomycin 1.25 mg/m² (maximum dose of 2 mg) IV push
 - o Repeat every 14 days until 2 cycles post fall of quantitative b-hCG to below lower limit of normal

- Dacti nomycin is considered a vesicant and can cause tissue necrosis if extravasated
 - o Please refer to Policy III-20: Prevention and Management of Extra vasation of Chemotherapy for more information

GIAAVCT

Treatment	Indication: Under Review	Associated Adverse Events
Programs	(Refer to protocol for more details)	
Paclitaxel plus Carboplatin	Palliative Treatment of Metastatic Anal Squamous Cell Carcinoma	Possible a dverse events (of any grade): Myel o suppression Anemia Thrombocytopenia Neutropenia Infusion-related reactions Peripheral sensory neuropathy Mucositis Nausea and vomiting Fatigue Arthralgia and/or myalgia Alopecia Hepatic dysfuction
		NeurotoxicityNephrotoxicity

Dosing and Administration Information

Pre-medications:

- Antiemetic: moderate emetogenicity (see SCNAUSEA)
- Prior to paclitaxel:
 - o IV dexamethasone 10 mg
 - o IV diphenhydramine 25 mg + IV ra nitidine 50 mg (compatible up to 3 hours when mixed in bag)

Dosing and Schedule: Repeat every 28 days

Days of Treatment	Day 1	Day 8	Day 15
Chemotherapy	IV paclitaxel* 80 mg/m ² (Dose modification 70 or 60 mg/m ²) PLUS	IV paclitaxel* 80 mg/m ²	IV paclitaxel* 80 mg/m ²
Chemotherapy	IV carboplatin AUC 5 (Dose modification AUC 4 or 3)	iv pacitianes 50 mg/m	To pacificazer so mg/m

^{*} Use non-DEHP bag and non-DEHP tubing with 0.22 micron or smaller in-line filter

- If no paclitaxel hypersensitivity reactions occur:
 - o No pre medications may be needed for subsequent doses and may be o mitted at physician's discretion.
 - o dexamethasone 8 mg PO may be given on Day 1 of each cycle in place of the IV dexamethasone
- If paclitaxel hypersensitivity reactions occur:
 - Pre medications for re-challenge include dexamethasone 20 mg PO given 12 hours and 6 hours prior to treatment, plus
 IV pre medications given 30 mi nutes prior to paclitaxel: dexamethasone 10 mg, diphenhydramine 50 mg, and ranitidine
 50 mg.
- Pa clitaxel causes pain and may cause tissue necrosis if extravasated
 - o Please refer to Policy III-20: Prevention and Management of Extra vasation of Chemotherapy for more information
- Paclitaxel is a CYP 2C8/9 and CYP 3A4 substrate. Paclitaxel serum concentrations may be increased by inhibitors of these enzymes and decreased by inducers of these enzymes.

GIPAVFFOX

Treatment	Indication: Under Review	Associated Adverse Events
Programs	(Refer to protocol for more details)	
Oxaliplatin plus Leucovorin plus Fluorouracil	Palliative Treatment of Metastatic Pancreatic Cancer	Possible a dverse events (of any grade): Myelosuppression Infusion-related reactions Peripheral sensory neuropathy Pharyngolaryngeal dysesthesia Reversible posterior leukoencephalopathy syndrome Cardiotoxicity diarrhea stomatitis
		Venous Occlusive DiseaseDihydropyrimidine dehydrogenase (DPD) deficiency

Dosing and Administration Information

Pre-medications:

• Antiemetic: high to moderate emetogenicity (see SCNAUSEA)

Dosing and Schedule: Repeat every 14 days

Oxaliplatin* 85 mg/m² administer over 2 hours

Plus

 Leucovorin* 400 mg/m² a dminister over 2 hours Plus

Fluorouracil 400 mg/m² IV push
 Plus

• Fluorouracil 2400 mg/m² IV over 46 h in D5W to a total volume of 230 mL by continuous infusion at 5 mL/h via Baxter LV5 INFUSOR

- Patients with PICC lines should have a weekly assessment of the PICC site for evidence of infection or thrombosis
- Oxaliplatin administration:
 - o Counsel patients to a void cold drinks and exposure to cold air, especially for 3-5 days following oxaliplatin administration.
 - o Cryotherapy (ice chips) should NOT be used as it may exacerbate oxaliplatin-induced pharyngo-laryngeal dysesthesias.
 - Oxaliplatin causes irritation if extravasated.
 - Please refer to Policy III-20: Prevention and Management of Extravasation of Chemotherapy for more information
- Fluorouracil drug Interactions:
 - o Fluorouracil is known to increase serum concentrations of warfarin, and may occur at any time. Regular monitoring of a nti coagulation parameters (e.g. PTT, INR) is recommended for duration of therapy with fluorouracil.
 - o Possible drug interaction with fluorouracil and phenytoin and fosphenytoin has been reported and may occur at any time. Close monitoring of plasma levels and clinical response when starting or stopping fluorouradi is recommended.

^{*} Oxal iplatin and leucovorin may be infused over the same two hour period by using a Y-site connector placed immediately before the injection site.

GIPAVFFIRI

Treatment	Indication: Under Review	Associated Adverse Events
Programs	(Refer to protocol for more details)	
Irinotecan	Treatment of Metastatic Pancreatic	Possible a dverse events (of any grade):
plus	Cancer	 Myelosuppression
<u>Leucovorin</u>		Diarrhea (early & late onset)
plus		Other cholinergic symptoms
<u>Fluorouracil</u>		o Rhinorrhea
		 Increased salivation
		 La cri mation
		 Diaphoresis
		Flushing
		 Gilbert's syndrome
		He patic dysfunction
		 Pulmonary toxicity
		• stomatitis
		Myocardial ischemia
		 Di hydropyrimidine dehydrogenase (DPD) deficiency

Dosing and Administration Information

Pre-medications:

Antiemetic: high to moderate emetogenicity (see <u>SCNAUSEA</u>)

Dosing and Schedule: Repeat every 14 days

- Irinotecan* 180 mg/m² a dminister over 1 hour 30 min Plus
- **Leucovorin*** 400 mg/m² a dminister over 1 hour 30 min Plus
- Fluorouracil 400 mg/m² IV push
 Plus
- Fluorouracil 2400 mg/m² IV over 46 h in D5W to a total volume of 230 mL by continuous infusion at 5 mL/h via Baxter LV5

- Patients with PICC lines should have a weekly assessment of the PICCs ite for evidence of infection or thrombosis
- Irinotecan administration:
 - Early diarrhea or abdominal cramps occurring within the first 24 hours is treated with a tropine 0.3 to 1.2 mg IV or SC.
 Prophylactic atropine may be required for subsequent treatments.
 - Late diarrhea has an onset of 5 to 11 days post-treatment, a duration of 3 to 7 days and must be treated promptly with loperamide.
- Irinotecan drug Interactions:
 - Anticonvulsants and other drugs which induce Cytochrome P450 3A4 isoenzyme activity e.g. carbamazepine, phenytoin and St John's Wort may decrease the therapeutic and toxic effects of irinotecan.
 - o Prochlorperazine should be a voided on the same day as irinotecan treatment due to the increased incidence of akathisia
- Fluorouracil drug Interactions:
 - Fluorouracil is known to increase serum concentrations of warfarin, and may occur at any time. Regular monitoring of a nti coagulation parameters (e.g. PTT, INR) is recommended for duration of therapy with fluorouracil.
 - Possible drug interaction with fluorouracil and phenytoin and fosphenytoin has been reported and may occur at any time. Close monitoring of plasma levels and clinical response when starting or stopping fluorouracil is recommended.

^{*} Irinotecan and leucovorin may be infused over the same two hour period by using a Y- site connector placed immediately before the injection site.

Website Resources and Contact Information

Website Resources and Contact information			
CONTACT INFORMATION	EMAIL		
To subscribe or update contact information, please contact:			
Provincial Systemic Therapy Program	ProvincialSystemicOffice@bccancer.bc.ca		
Systemic Therapy Education Bulletin: http://www.bccancer.bc.ca/health-professionals/clinical-resources/systemic-therapy/education-bulletin			
EDUCATIONAL OPPORTUNITIES			
For educational opportunities, please contact your Regional Centre clinical leadership team.			