# BC Cancer Protocol Summary for Adjuvant Chemotherapy for Pancreatic Adenocarcinoma Using Gemcitabine

Protocol Code

GIPAJGEM

**Tumour Group** 

**Contact Physician** 

GI Systemic Therapy

Gastrointestinal

## ELIGIBILITY:

- Pancreatic adenocarcinoma
- Node-positive margin-negative ampullary cancer (cancers of the gall bladder, and biliary system excluded)
- Macroscopic complete resection
- ECOG 0 to 2

## CAUTIONS:

• Adequate marrow reserve, renal and liver function

## TESTS:

- Baseline: CBC & Diff, creatinine, ALT, alkaline phosphatase, total bilirubin, albumin, sodium, potassium, random glucose, HbA1c
- Baseline if clinically indicated: ECG, CEA, CA19-9, GGT
- Prior to Day 1: CBC & Diff, creatinine, total bilirubin, ALT
- Prior to Days 8 and 15: CBC & Diff
- If clinically indicated: alkaline phosphatase, albumin, GGT, sodium, potassium, random glucose, HbA1c, CEA, CA19-9, ECG
- For patients on warfarin, weekly INR during treatment until stable warfarin dose established, then INR prior to each cycle

## PREMEDICATIONS:

• Antiemetic protocol for low emetogenic chemotherapy (see <u>SCNAUSEA</u>).

### TREATMENT:

Drug	Dose	BC Cancer Administration Guideline	
gemcitabine	1000 mg/m <sup>2</sup> on Days 1, 8, and 15	IV in 250 mL NS over 30 minutes	

Repeat every 28 days x 6 cycles.

Warning: The information contained in these documents are a statement of consensus of BC Cancer Agency 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 judgement 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 Agency's terms of use available at <a href="http://www.bccancer.bc.ca/terms-of-use">http://www.bccancer.bc.ca/terms-of-use</a>

#### **DOSE MODIFICATIONS: 1 Hematology** – On Treatment Day

ANC (x 10 <sup>9</sup> /L)		Platelets (x 10 <sup>9</sup> /L)	Dose
Greater than 1.0	and	Greater than 100	100%
0.5 to 1.0	or	50 to 100	75% or delay, based on clinical assessment
Less than 0.5	or	Less than 50	Delay

## 2. Non – Hematologic Toxicities

Grade	Stomatitis	Diarrhea	Dose
1	Painless ulcers, erythema or mild soreness	Increase of 2 to 3 stools/day or mild increase in loose watery colostomy output	100%
2	Painful erythema, edema, or ulcers but can eat	Increase of 4 to 6 stools, or nocturnal stools or mild increase in loose watery colostomy output	Omit until toxicity resolved then resume at 100%
3	Painful erythema, edema, or ulcers and cannot eat	Increase of 7 to 9 stools/day or incontinence, malabsorption; or severe increase in loose watery colostomy output	Omit until toxicity resolved then resume at 75%
4	Mucosal necrosis, requires parenteral support	Increase of 10 or more stools/day or grossly bloody diarrhea, or grossly bloody colostomy output or loose watery colostomy output requiring parenteral I support; dehydration	Omit until toxicity resolved then resume at 50%.

- Doses reduced for toxicity should not be re-escalated.
- If doses must be omitted for Grade 2 toxicity twice in previous cycles, then commence next cycle at 75% dose when treatment is resumed.

### **PRECAUTIONS:**

- 1. **Neutropenia**: Fever or other evidence of infection must be assessed promptly and treated aggressively.
- 2. **Renal Dysfunction**: Irreversible renal failure associated with hemolytic uremic syndrome may occur (rare). Use caution with pre-existing renal dysfunction.

BC Cancer Protocol SummaryGIPAJGEMActivated: 1 Oct 2008Revised: 1 Feb 2025 (Tests updated)

Warning: The information contained in these documents are a statement of consensus of BC Cancer Agency 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 Agency's terms of use available at <a href="http://www.bccancer.bc.ca/terms-of-use">http://www.bccancer.bc.ca/terms-of-use</a>

- 3. Pulmonary Toxicity: Acute shortness of breath may occur. Discontinue treatment if drug-induced pneumonitis is suspected.
- 4. **Drug Interaction**: Possible interaction between gemcitabine and warfarin has been reported and may occur at any time. Close monitoring is recommended (monitor INR weekly during gemcitabine therapy and for 1 to 2 month after discontinuing gemcitabine treatment).

### Call the GI Systemic Therapy physician at your regional cancer centre or the GI Systemic Therapy Chair Dr. Theresa Chan at (604) 930-2098 with any problems or questions regarding this treatment program.

### **References:**

- 1. Oettle H, Post S, Neuhaus P, et al. Adjuvant chemotherapy with gemcitabine vs observation in patients undergoing curative-intent resection of pancreatic cancer: a randomized controlled trial. JAMA 2007; 297: 267-77.
- 2. Neuhaus P, Riess H, Post S, et al. CONKO-001: Final results of the randomized, prospective, multicentre phase III trial of adjuvant chemotherapy with gemcitabine versus observation in patients with resected pancreatic cancer (PC). J Clin Oncol 2008; 26 (May 20 suppl: abstr LBA4504).
- 3. Neoptolemos JP. Ampullary cancer ESPAC-3 (v2) trial: A multicenter, international, openlabel, rondaomized controlled phase III trial of adjuvant chemotherapy verseus observation in patients with adenocarcinoma of the ampulla of vater. J Clin Oncol 20:2011 (suppl; abstr LBA4006)