## BC Cancer Protocol Summary for Treatment of Epithelial Ovarian Cancer Relapsing after Primary Treatment using DOXOrubicin Pegylated Liposomal

**Protocol Code** 

Tumour Group

## **Contact Physicians**

# GOOVLDOX

Gynecologic Oncology

Dr. Paul Hoskins Dr. Mark Heywood

## PREFACE:

- In <u>platinum sensitive</u> disease: patients should be considered for doublet therapy consisting of carboplatin plus either a taxane or gemcitabine or DOXOrubicin pegylated liposomal (e.g., GOOVCATR, GOOVCAD, GOOVCAG, GOOVPLDC)
- In <u>platinum resistant</u> disease (i.e., cancer progresses within six months of completing a platinumcontaining treatment protocol): patients will ideally receive single agent carboplatin, as it is the least toxic and most convenient choice of the equally efficacious agents available (i.e., GOOVCARB)
- In <u>platinum refractory</u> disease (i.e., cancer progresses while being treated with a platinum) choose between available agents based upon toxicity profile and convenience of dosing regimen. Options include: GOOVTOP, GOOVLDOX, GOOVGEM, GOOVETO, GOOVVIN, GOOVTAX3, GOOVDOC.
- Patients who will not benefit from further therapy after second or subsequent rounds of chemotherapy can be identified by the following formula: "day 1 of treatment N to day of progression on treatment N+1 is less than or equal to 6 months." They should be offered symptomatic management or investigational protocols.

## ELIGIBILITY:

- Platinum refractory ovarian, primary peritoneal or Fallopian tube carcinoma
- Platinum resistant ovarian, primary peritoneal or Fallopian tube carcinoma in cases where patientspecific concerns dissuade the clinician from selecting single-agent carboplatin
- Platinum sensitive ovarian, primary peritoneal or Fallopian tube carcinoma in cases where actual or
  potential toxicity precludes the use of carboplatin or cisplatin alone or in combination with a taxane or
  gemcitabine.
- Adequate hematologic, liver and cardiac function
- PS ECOG 3 or better

### **EXCLUSIONS:**

- Pre-existing cardiomyopathy or congestive heart failure (relative contraindication)
- Premorbid disease affecting ability to tolerate DOXOrubicin pegylated liposomal
- Hepatic dysfunction (see DOSE MODIFICATIONS, below)

### TESTS:

- Baseline: CBC with differential, platelets, bilirubin, ALT, Alk Phos, tumour markers (at physician's discretion), imaging for tumour assessment (at physician's discretion)
- Before each treatment: CBC with differential, platelets, tumour markers (at physician's discretion)
- If clinically indicated: creatinine, urea, albumin, ALT, Alk Phos, bilirubin, LDH, protein level, GGT
- If clinically indicated: cardiac function tests: echocardiogram or MUGA scan

## **PREMEDICATIONS:**

Antiemetic protocol for chemotherapy with low emetogenicity (see <u>SCNAUSEA</u>)

BC Cancer Protocol Summary GOOVLDOX

Page 1 of 3

Activated: 1 Jul 2007 Revised: 1 June 2021 (Tests revised) 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 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's terms of use available at <u>www.bccancer.bc.ca/terms-of-use</u>

## TREATMENT:

Drug	Dose	BC Cancer Administration G	uideline
DOXOrubicin pegylated liposomal	40 mg/m <sup>2</sup>	IV in 250 mL D5W (doses greater than or equal 90 mg in 500 mL D5W)	<i>Initial dose</i> : at rate of 1mg/min <i>Subsequent doses, if no prior</i> <i>infusion reaction:</i> infuse over 1 hour

Repeat every 28 days until disease progression (usual treatment 9 cycles).

## **DOSE MODIFICATIONS:**

#### 1. Hematological

ANC (x10 <sup>9</sup> /L)		Platelets (x10 <sup>9</sup> /L)	Dose
greater than or equal to 1.0	and	greater than or equal to 100	100%
less than 1.0	or	less than 100	delay until recovery, then proceed with 100% dose
febrile neutropenia		reduce subsequent cycles by 10 mg/m <sup>2</sup>	

#### 2. Hepatic

Total bilirubin (micromol/L)	Dose (mg/m²)
less than 21	40
21 to 50	30
greater than 50	20

#### 3. Stomatitis

Grade	Symptoms	Dose
1	painless ulcers, erythema, or mild soreness	40 mg/m <sup>2</sup>
2	painful erythema, edema or ulcers, but can eat	delay until recovered to Grade 1, then continue at 30 mg/m <sup>2</sup>
3	painful erythema, edema or ulcers, and cannot eat	delay until recovered to Grade 1, then continue at 30 mg/m <sup>2</sup> ; or discontinue treatment
4	requires parenteral or enteral support	discontinue treatment

Note: If delay has been necessary due to stomatitis, change of interval to five weeks is recommended.

## 4. Palmar-Plantar Erythrodysesthesia (PPE) (Hand-Foot Skin Reaction)

Grade Symptoms Dose	
---------------------	--

BC Cancer Protocol Summary GOOVLDOX

Page 2 of 3

Activated: 1 Jul 2007 Revised: 1 June 2021 (Tests revised) 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 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's terms of use available at <u>www.bccancer.bc.ca/terms-of-use</u>

1	mild erythema, swelling or desquamation not interfering with normal daily activities	if no prior Grade 2 or 3 occurrence, proceed at full dose. if prior Grade 2 or 3 occurrence, delay one week; once recovery evident, continue treatment at 30 mg/m <sup>2</sup>
2	erythema, swelling or desquamation interfering with but not precluding normal daily activities; small blisters or ulcerations less than 2 cm in diameter	delay one week; once recovery evident, continue treatment at 30 mg/m <sup>2</sup>
3	blistering, ulceration or swelling preventing normal daily activities; cannot wear regular clothing	delay one week, and re-assess; consider dexamethasone 2 mg TID until symptoms resolve; if still Grade 3 after a one week delay, discontinue treatment; if resuming, dose at 30 mg/m <sup>2</sup>

Note: If delay has been necessary due to PPE, change of interval to five weeks is recommended.

#### 5. Other Grade 3 or 4 Toxicities

Reduce dose by 10 mg/m<sup>2</sup>.

#### **PRECAUTIONS:**

- 1. **Neutropenia**: Fever or other evidence of infection must be assessed promptly and treated aggressively. Refer to BC Cancer Febrile Neutropenia Guidelines.
- 2. **Cardiac Toxicity**: DOXOrubicin is cardiotoxic and must be used with caution, if at all, in patients with severe hypertension or cardiac dysfunction.
- 3. **Extravasation**: DOXOrubicin pegylated liposomal is considered an irritant. Refer to BC Cancer Extravasation Guidelines.
- 4. Acute Infusion Reaction: may occur with first infusion, usually within minutes of starting. Refer to BC Cancer Hypersensitivity Guidelines. *Note: the first step is to stop the infusion*. In subsequent cycles, reactions are rare, but prophylaxis with dexamethasone, diphenhydrAMINE, and famotidine may be used.
- 5. **Palmar-Plantar Erythrodysesthesia (PPE) (Hand-Foot Skin Reaction)**: See BC Cancer Drug Manual liposomal DOXOrubicin monograph for suggested strategies for preventing or minimizing PPE. Corticosteroids may reduce the incidence of PPE during treatment.<sup>2</sup>

#### Call Dr. Paul Hoskins, Dr. Mark Heywood or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

#### **REFERENCES:**

- 1. Hoskins P, et al. Identifying patients unlikely to benefit from further chemotherapy: A descriptive study of outcome at each relapse in ovarian cancer. Gynecol Oncol 2005;97(3):862-9.
- 2. Alberts DS, et al. Efficacy and safety of liposomal anthracycline in phase I/II clinical trials. Sem Oncol 2004;32(Suppl 13):53-90.

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 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's terms of use available at www.bccancer.bc.ca/terms-of-use