

## Regimen Reference Order – GENU – gemcitabine + CARBOplatin

ARIA: GENU – [gemcitabine + CARBO (Bladder) (ADJ)]

GENU – [gemcitabine + CARBO (Bladder) (MET)]

**Planned Course:** Every 21 days for 4 cycles (Adjuvant) OR 6 cycles (Metastatic)

**Indication for Use:** Urothelial Cancer

**CVAD:** At Provider’s Discretion

**Proceed with treatment if:**

**Day 1**

**ANC equal to or greater than  $1.5 \times 10^9/L$  AND Platelets equal to or greater than  $100 \times 10^9/L$**

**Day 8**

**ANC equal to or greater than  $1 \times 10^9/L$  AND Platelets equal to or greater than  $75 \times 10^9/L$**

❖ **Contact Physician if parameters not met**

### SEQUENCE OF MEDICATION ADMINISTRATION

#### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

#### Treatment Regimen – GENU – gemcitabine + CARBOplatin

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Day 1</b>		
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes
CARBOplatin	AUC 5 mg/mL.min; maximum dose 750 mg (see table below)	IV in D5W 250 mL over 30 minutes
<b>Day 8</b>		
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes

**In the event of an infusion-related hypersensitivity reaction, refer to the ‘Hypersensitivity Reaction Standing Order’**

## REQUIRED MONITORING

All Cycles

Day 1

- CBC, serum creatinine, urea and liver enzymes as per Physician Orders

Day 8

- CBC as per Physician Orders

### Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
aprepitant	80 mg	Orally once daily on Days 2 and 3
dexamethasone	8 mg	Orally once daily on Days 2 and 3
metoclopramide	10 – 20 mg	Orally every 4 hours as needed for nausea and vomiting

## DISCHARGE INSTRUCTIONS

- Instruct patient to continue taking anti-emetic(s) at home
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

## ADDITIONAL INFORMATION

- CARBOplatin dose considerations:
  - CCMB Genitourinary DSG uses **actual body weight** to calculate GFR
  - CCMB Genitourinary DSG uses a maximum CARBOplatin dose of 750 mg for this regimen
  - If calculated CARBOplatin dose differs **more than 10%** from prescribed CARBOplatin dose, contact the prescriber

**CARBOplatin Dosing Calculations  
per CCMB Genitourinary DSG**

*Calculation of CARBOplatin dose: (max.750 mg)*

Dose (mg) = target AUC (GFR + 25)

$$\text{GFR} = \frac{N \times (140 - \text{age in years}) \times \text{Actual Body Weight (kg)}}{\text{serum creatinine in } \mu\text{mol/L}} = \text{___ mL/min}$$

N = 1.23 in males  
N = 1.04 in females

$\frac{\text{AUC (mg/mL.min)}}{5}$	X	$\frac{\text{GFR} + 25 \text{ (mL/min)}}{\text{___} + 25}$	=	$\text{Total Dose (mg)}$
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ADULT

GENU – gemcitabine + CARBOplatin

AUC= Area Under Curve

*The estimated creatinine clearance is based on limited evidence. Sound clinical judgment and interpretation of the estimation are required, because the equation above may not be appropriate for some patient populations (for example, acute renal failure)*