ADULT Updated: November 17, 2021

# Regimen Reference Order – LYMP – R-GD-CARBOplatin

ARIA: LYMP - [R-GD-CARBO]

Planned Course: Every 21 days up to 6 cycles

Indication for Use: Relapsed/Refractory Non-Hodgkin Lymphoma

CVAD: At Provider's Discretion

# **Proceed with treatment if:**

# Day 1

• ANC equal to or greater than  $1 \times 10^9/L$  AND Platelets equal to or greater than  $50 \times 10^9/L$ 

# Day 8

- Blood work not required to proceed with treatment
  - Contact Hematologist if parameters not met

# **SEQUENCE OF MEDICATION ADMINISTRATION**

Pre-treatment Requirements					
Drug Dose		CCMB Administration Guideline			
allopurinol*	300 mg	Orally once daily for 10 days to begin 3 days prior to Cycle 1 and at provider's discretion for subsequent cycles			
		(Self-administered at home)			
		*Only patients at risk of tumor lysis syndrome will be prescribed allopurinol			

Treatment Regimen – LYMP – R-GD-CARBOplatin			
Establish primary solution 500 mL of: normal saline			
Drug	Dose	CCMB Administration Guideline	
Cycle 1			
Day 1			
cetirizine	10 mg	Orally 30 minutes prior to riTUXimab	
acetaminophen	650 mg	Orally 30 minutes prior to riTUXimab	
dexamethasone	40 mg	IV in normal saline 50 mL over 15 minutes  dexamethasone is started on Day 1 regardless if R-GD- CARBO is given over one day or split over two days	
Wait 30 minutes after	Wait 30 minutes after completion of IV pre-medications before starting riTUXimab		
riTUXimab (IV brand name specific)	375 mg/m <sup>2</sup>	Slow infusion: (if greater than 6 months since last riTUXimab dose or no previous riTUXimab): IV made up to a final concentration of 1 mg/mL in normal saline. Start at 50 mg/hr for 60 minutes and escalate infusion rate in 50 mg/hr increments every 30 minutes to a maximum of 400 mg/hr *Nursing Alert: IV tubing is primed with riTUXimab *Alert: Ensure brand name on prescription label (indicated in	



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		brackets on prescription label) matches prescribed order
		*Alert: Pharmacy to ensure final volume on label
		OR
		Slow infusion: (if equal to or less than 6 months since last riTUXimab dose): IV made up to a final concentration of 1 mg/mL in normal saline. Start at 100 mg/hr for 30 minutes and escalate infusion rate in 100 mg/hr increments every 30 minutes to a maximum of 400 mg/hr  *Nursing Alert: IV tubing is primed with riTUXimab  *Alert: Ensure brand name on prescription label (indicated in brackets on prescription label) matches prescribed order  *Alert: Pharmacy to ensure final volume on label
aprepitant**	125 mg	Orally 1 hour pre-chemotherapy
ondansetron**	16 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
**If R-GD-CARBO is sp	lit over two days, give aprepit	tant and ondansetron prior to GD-CARBO on Day 2
Day 2, 3 and 4		
dexamethasone	40 mg	Orally once daily in the morning with food (Self-administered at home)
Day 8		
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes
Cycle 2 onwards		
Day 1		
cetirizine	10 mg	Orally 30 minutes prior to riTUXimab
acetaminophen	650 mg	Orally 30 minutes prior to riTUXimab
dexamethasone	40 mg	IV in normal saline 50 mL over 15 minutes
Wait 30 minutes after	completion of IV pre-medicat	tions before starting riTUXimab
riTUXimab (Subcutaneous)	1400 mg (1400 mg = 11.7 mL)	Subcutaneous: Administer over 5 minutes into abdomen Syringe should be held in hand for 5 minutes to warm up and decrease viscosity Use 25G needle *Nursing Alert: Ensure subcutaneous riTUXimab formulation is used (riTUXimab-hyaluronidase, human)
		OR
riTUXimab (IV brand name specific)	375 mg/m <sup>2</sup>	Rapid infusion: IV in normal saline over 90 minutes: Infuse 50 mL of a 250 mL bag (or 100 mL of a 500 mL bag) over 30 minutes, then infuse the remaining 200 mL (or 400 mL of a



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		500 mL bag) over 60 minutes  *Alert: Ensure brand name on prescription label (indicated in		
		brackets on prescription label) matches prescribed order		
		*Alert: Pharmacy to ensure final volume on label		
		Concentration dependent drug: Pharmacy will adjust diluent volume to ensure drug stability		
		OR		
		Slow infusion: IV made up to a final concentration of 1 mg/mL in normal saline. Start at 100 mg/hr for 30 minutes and escalate infusion rate in 100 mg/hr increments every 30 minutes to a maximum of 400 mg/hr  *Nursing Alert: IV tubing is primed with riTUXimab  *Alert: Ensure brand name on prescription label (indicated in brackets on prescription label) matches prescribed order		
		*Alert: Pharmacy to ensure final volume on label		
aprepitant	125 mg	Orally 1 hour pre-chemotherapy		
ondansetron	16 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		
Days 2, 3 and 4				
dexamethasone	40 mg	Orally once daily in the morning with food		
		(Self-administered at home)		
Day 8				
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy		
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes		
All doses will be automatically rounded that fall within the DSG Approved Dose Bands. See LYMP DSG – Dose Banding document for more information				

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, electrolytes, liver enzymes, LDH, total bilirubin, uric acid and albumin as per Physician Orders

#### Day 8

No blood work required

### **INTRAVENOUS** riTUXimab

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline and as clinically indicated
- No observation period is required. Patient can be discharged from treatment room if stable whether they had a reaction or not



#### SUBCUTANEOUS riTUXimab

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline, <u>at discharge</u> and as clinically indicated
- 15 minute observation period required after each dose

	Recommended Support Medications					
ı	Drug	Dose	CCMB Administration Guideline			
ı	aprepitant	80 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**

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Instruct patient to continue taking anti-emetic(s) at home
- dexamethasone is a cancer therapy in this treatment regimen. Remind patient to take dexamethasone at home
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

### ADDITIONAL INFORMATION

- · Administering nurse must document any infusion-related reactions with any dose of riTUXimab
- Ensure there were no **Grade 3 or 4** infusion-related reactions with any previous dose prior to administering riTUXimab via subcutaneous injection or rapid infusion
- Intravenous riTUXimab formulation is available from more than one manufacturer and uses several different brand names. Brand name will be indicated in brackets after riTUXimab. Ensure prescription label matches the brand name on prescribed order for intravenous riTUXimab
- CARBOplatin dose considerations:
  - o CCMB Lymphoproliferative DSG uses actual body weight to calculate GFR
  - o CCMB Lymphoproliferative 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 Lymphoproliferative DSG Calculation of CARBOplatin dose: (max.750 mg) Dose (mg) = target AUC (GFR + 25) GFR = N x (140-age in years) x Actual Body Weight (kg) = \_\_\_ mL/min serum creatinine in umol/L N = 1.23 in males N = 1.04 in females AUC GFR + 25 **Total Dose** (mg/mL.min) Х (mL/min) (mg) 5 + 25

#### **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).

