Regimen Reference Order – CLL – FCR

ARIA: CLL – [FCR]

Planned Course:Every 28 days for 6 cyclesIndication for Use:Chronic Lymphocytic Leukemia

CVAD: At Provider's Discretion

Proceed with treatment if:

• Creatinine clearance greater than 30 mL/minute

Cycle 1

• Proceed with treatment regardless of CBC

Cycle 2 onwards

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

Contact Hematologist if parameters not met

Note: Hepatitis B serology results must be reviewed in accordance with CCMB Policy Hepatitis B Monitoring for Oncology and Hematology Patients

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		

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	



riTUXimab (IV brand name specific)	375 mg/m ²	Slow infusion:IV made up to a final concentration of 1 mg/mLin normal saline. Start at 50 mg/hr for 60 minutes and escalateinfusion rate in 50 mg/hr increments every 30 minutes tomaximum 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	
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy	
fludarabine	25 mg/m ²	IV in normal saline 50 mL over 30 minutes	
cyclophosphamide	250 mg/m ²	IV in normal saline 250 mL over 1 hour	
Days 2 and 3			
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy	
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy	
fludarabine	25 mg/m ²	IV in normal saline 50 mL over 30 minutes	
cyclophosphamide	250 mg/m ²	IV in normal saline 250 mL over 1 hour	
Cycles 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 c	ompletion of IV pre-medi	cations before starting riTUXimab	
riTUXimab (Subcutaneous)	1600 mg (1600 mg = 13.4 mL)	Subcutaneous:Administer over 7 minutes into abdomenSyringe should be held in hand for 5 minutes to warm up and decrease viscosityUse 25G needle*Nursing Alert:Ensure subcutaneous riTUXimab formulation is used (riTUXimab-hyaluronidase, human)	
	OR		
riTUXimab (IV brand name specific)	500 mg/m ²	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 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	
		OR	



	*Alert: Ensure brand name on prescription label (indicated in brackets on prescription label) matches prescribed order
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	*Alert: Pharmacy to ensure final volume on label
16 mg	Orally 30 minutes pre-chemotherapy
25 mg/m ²	IV in normal saline 50 mL over 30 minutes
250 mg/m ²	IV in normal saline 250 mL over 1 hour
12 mg	Orally 30 minutes pre-chemotherapy
16 mg	Orally 30 minutes pre-chemotherapy
25 mg/m ²	IV in normal saline 50 mL over 30 minutes
250 mg/m ²	IV in normal saline 250 mL over 1 hour
	25 mg/m ² 250 mg/m ² 12 mg 16 mg 25 mg/m ²

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

REQUIRED MONITORING

Hepatitis B serology

• Hepatitis B surface antigen and Hepatitis B core antibody (drawn within preceding 5 years)

Day 1

• CBC, serum creatinine, urea, liver enzymes, electrolytes, LDH, total bilirubin, uric acid and albumin as per Physician Orders

INTRAVENOUS riTUXimab

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline and as clinically indicated
- No observation period is required after riTUXimab administration. 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 O₂ saturation) at baseline, <u>at discharge</u>, and as clinically indicated
- 15-minute observation period required after each dose



Recommended Support Medications				
Drug	Dose	CCMB Administration Guideline		
sulfamethoxazole- trimethoprim	800/160mg	Orally twice daily on Saturdays and Sundays only		
valACYclovir	500 mg	Orally once daily		
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:
 - o Continue taking anti-emetic(s) and support medications at home
 - Maintain oral intake of 2000 mL (8 glasses) of fluid daily at home
 - Empty bladder every 2 hours while awake and at bedtime for 24 hours
 - Obtain immediate assistance as per your clinic's contact instructions if:
 - Symptoms of hemorrhagic cystitis (e.g. dysuria, hematuria)
 - Unable to drink recommended amount of fluid
- valACYclovir is prescribed for herpes zoster (shingles) prophylaxis
- sulfamethoxazole-trimethoprim is prescribed for *Pneumocystis jirovecii* pneumonia prophylaxis
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

ADDITIONAL INFORMATION

- Patients on fludarabine should receive irradiated blood products
- Note that this regimen has a higher riTUXimab dose Cycle 2 onwards
- Due to the risk of reactivation of Hepatitis B virus (HBV) while on this treatment regimen, prescriber must adhere to CCMB Policy *Hepatitis B Monitoring for Oncology and Hematology Patients* for ordering and interpreting HBV serology and prescribing antiviral prophylaxis
- valACYclovir and sulfamethoxazole-trimethoprim DS continue while on treatment and for 12 months after discontinuation of FCR due to risk of prolonged immunosuppression
- Administering nurse must document any infusion-related reactions with any dose of riTUXimab
- Ensure there were **no Grade 3 or 4** infusion-related reaction 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

