Regimen Reference Order – LYMP – R-CD (Waldenstrom macroglobulinemia)

ARIA: LYMP – [R-CD (Waldenstroms)]

Planned Course: Every 21 days for 6 cycles
Indication for Use: Waldenstrom macroglobulinemia

CVAD: At Provider's Discretion

Proceed with treatment if:
ANC equal to or greater than 1 x 10^9/L AND Platelets equal to or greater than 50 x 10^9/L
- **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 * Only patients at risk of tumor lysis syndrome will be prescribed allopurinol
cyclophosphamide	100 mg/m^2	Orally twice daily on Days 1 to 5 with breakfast and supper Do not crush or chew **(Self-administered at home)**
cyclophosphamide (Procytox®) available dosage strengths: 25 mg and 50 mg tablets **Classification: Cytotoxic, Hazardous**		

Treatment Regimen – LYMP – R-CD (Waldenstrom macroglobulinemia)

Drug	Dose	CCMB Administration Guideline
Cycle 1		
acetaminophen	650 mg	Orally 30 minutes prior to riTUXimab
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes
riTUXimab	375 mg/m^2	**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 maximum of 400 mg/hr **Nursing Alert: IV tubing is primed with riTUXimab* **OR** **Slow infusion (if equal to or less than 6 months since last riTUXimab):** 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*

Cycle 2 and onwards (SUBCUTANEOUS riTUXimab)		
acetaminophen	650 mg	Orally 30 minutes prior to riTUXimab
dexamethasone	20 mg	Orally 30 minutes pre-chemotherapy
diphenhydrAMINE	50 mg	Orally 30 minutes pre-chemotherapy
riTUXimab	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		
Cycle 2 and onwards (INTRAVENOUS riTUXimab)		
acetaminophen	650 mg	Orally 30 minutes prior to riTUXimab
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes
riTUXimab	375 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* **OR** **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 500 mL bag) over 60 minutes *Concentration dependent drug: Pharmacy will adjust diluent volume to ensure drug stability*
All doses will be automatically rounded that fall within the DSG Approved Dose Bands. See LYMP DSG – Dose Banding document for more information		

Flush after each medication:

- 50 mL over 6 minutes (500 mL/hr)

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, AST, ALT, total bilirubin, uric acid, sodium, potassium, calcium, albumin, magnesium, phosphate, serum immunoglobulins as per Physician Orders

INTRAVENOUS riTUXimab

- Full vital signs (temperature, heart rate, blood pressure, respiration and O_2 saturation) prior to each dose 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, blood pressure, respiration and O_2 saturation) prior to dose, at discharge, and as clinically indicated
- **15 minute observation period required after each dose**

Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
Not Applicable		

DISCHARGE INSTRUCTIONS

- Instruct patient to:
  - 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
- cyclophosphamide is a cancer therapy in this treatment regimen. Remind patient to take cyclophosphamide at home
- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Patients should notify clinic prior to starting any new medication. Medications in this regimen have potential for drug-drug interactions
- Avoid grapefruit or grapefruit juice
- 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 reaction with any previous dose prior to administering riTUXimab via Subcutaneous injection or Rapid Infusion