

Regimen Reference Order – LYMP – brentuximab vedotin + CEP

ARIA: LYMP - [brentuximab + CEP]

Planned Course: Every 21 days for 6 cycles

Indication for Use: T Cell Lymphoma

CVAD: At Provider's Discretion

Proceed with treatment if:

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

❖ **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
Instruct patient to start vigorous oral pre-hydration (600-900 mL) the morning of cyclophosphamide treatment (Self-administered at home)		
allopurinol	300 mg	Orally once daily for 10 days to begin 3 days prior to Cycle 1 (Self-administered at home) Only patients at risk of tumor lysis syndrome will be prescribed allopurinol <u>Note:</u> allopurinol should not be prescribed beyond 10 days unless under the direction of the hematologist. See <i>Additional Information</i>

Treatment Regimen – LYMP – brentuximab vedotin + CEP

Establish primary solution 500 mL of: normal saline		
Drug	Dose	CCMB Administration Guideline
Day 1		
predniSONE	100 mg	Orally once in the morning with food (Self-administered at home)
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
etoposide	50 mg/m ²	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets</i>
cyclophosphamide	750 mg/m ²	IV in normal saline 250 mL over 1 hour
cetirizine	10 mg	Orally 30 minutes prior to brentuximab vedotin
acetaminophen	650 mg	Orally 30 minutes prior to brentuximab vedotin
brentuximab vedotin	1.8 mg/kg	IV in normal saline 100 mL over 30 minutes

Days 2 and 3		
predniSONE	100 mg	Orally once daily in the morning with food (Self-administered at home)
etoposide	100 mg/m ² (to nearest 50 mg)	Orally once daily in the morning on an empty stomach Swallow whole <i>*Alert: Doses greater than 200 mg should be split into twice daily dosing. See etoposide dosing Table on page 5</i> (Self-administered at home)
Days 4 and 5		
predniSONE	100 mg	Orally once daily in the morning with food (Self-administered at home)
etoposide (VePesid®) available dosage strength: 50 mg capsule		
Classification: Cytotoxic, Hazardous		
Maximum dose of brentuximab vedotin is 180 mg		
All doses will be automatically rounded that fall within CCMB Approved Dose Bands. See Dose Banding document for more information		

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)

All Cycles

- CBC, serum creatinine, urea, electrolytes, liver enzymes, LDH, total bilirubin, uric acid and albumin as per Physician Orders
- Assess patient for neuropathy prior to every cycle
- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) prior to each dose of brentuximab vedotin and as clinically indicated
- No observation period is required after brentuximab vedotin administration. Patient can be discharged from treatment room if stable whether they had a reaction or not

Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
filgrastim (brand name specific) <i>(See Filgrastim Clinical Guide)</i>	5 mcg/kg (rounded to nearest 300 mcg or 480 mcg)	Subcutaneous once daily for 5 days to start on Day 5
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
- Ensure patient receives filgrastim supply if patient is self-administering at home
- Instruct patient to:
 - Continue taking anti-emetic(s) 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 after each dose of cyclophosphamide
 - 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
- Nurse will provide oral etoposide to the patient on Day 1. Remind patient to take etoposide at home
- predniSONE is a cancer therapy in this treatment regimen. Remind patient to take predniSONE at home
- Patients should notify clinic prior to starting any new medication. etoposide has potential for drug-drug interactions
- Avoid grapefruit and grapefruit juice, Seville oranges (i.e. orange marmalade), and starfruit
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

ADDITIONAL INFORMATION

- brentuximab vedotin must be the last medication administered on Day 1
- brentuximab vedotin can cause peripheral neuropathy
- 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
- Unless patient was taking allopurinol for gout or other reasons unrelated to the patient's underlying lymphoma, allopurinol should not be prescribed with cycle 2 and onwards unless directed by hematologist
- For patients who do not tolerate oral etoposide, it may be substituted with intravenous etoposide on Days 2 and 3 at the physician's discretion. Intravenous etoposide dose would be 50 mg/m² on Days 2 and 3 for this regimen
- Oral etoposide is dispensed by CCMB Pharmacy to nursing (treatment room) on Day 1. CCMB Pharmacy will ship oral etoposide to CCP Pharmacy for patients being treated at a CCP
- CCMB Pharmacist is authorized to auto-substitute oral etoposide doses greater than 200 mg to twice daily dosing according to the table below

etoposide Dosing Table

Oral etoposide dose	Automatic substitution
250 mg orally once daily	150 mg in the morning and 100 mg in the evening
300 mg orally once daily	150 mg in the morning and 150 mg in the evening
350 mg orally once daily	200 mg in the morning and 150 mg in the evening
400 mg orally once daily	200 mg in the morning and 200 mg in the evening