

PROTOCOL CODE: LYCODOXMR

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PPPO FOR THE TREATMENT OF BURKITT LYMPHOMA AND LEUKEMIA

LYCODOX-M (Magrath A) + R (riTUXimab)

[To be used before LYIVAC (Magrath B) + R]

PATIENT'S NAME:

LAST NAME FIRST NAME INITIAL

DIAGNOSIS: _____

DAY	DATE	CHEMOTHERAPY
1	_____	cyclophosphamide 800 mg/m ² IV at 1000h DOXOrubicin 50 mg/m ² IV at 1200h vinCRiStine 1.4 mg/m ² (max 2 mg) IV at 1400h
2	_____	cyclophosphamide 800 mg/m ² IV at 1000h
3	_____	cytarabine 50 mg Intrathecal, if no peripheral blasts, platelets greater than or equal to 50 x 10 ⁹ /L, INR less than 1.5, and PTT less than or equal to upper limit of normal
8	_____	riTUXimab 375 mg/m ² IV (or 1400 mg subcutaneous if IV tolerated) vinCRiStine 1.4 mg/m ² (max 2 mg) IV at 1400h
10	_____	methotrexate 3 g/m ² IV, if urinary pH greater than 7.0
18 +	_____	cytarabine 50 mg Intrathecal, if no peripheral blasts, platelets greater than or equal to 50 x 10 ⁹ /L, INR less than 1.5, and PTT less than or equal to upper limit of normal

NOTE:

1. All chemotherapy doses are calculated using actual body weight
2. One staff physician signature is required. Orders written by other providers MUST be cosigned.

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ALLERGY/ALERT: Reminder to Physicians: <i>Please ensure that drug allergies and previous bleomycin use are documented on the Allergy and Alert Form.</i>					
Date/Time:					
Cycle #:					
Admit to inpatient bed <input type="checkbox"/> GENERAL CONSENT SIGNED					
LABORATORY: Before Day 1 of each cycle: CBC & diff, creatinine, electrolytes panel, ALT, total bilirubin, alkaline phosphatase, GGT, uric acid, LDH Daily q am during treatment: CBC & diff, creatinine, electrolytes panel Before IT chemo (day 3 and after day 18 when IT chemo is given): Platelets, PTT, INR Twice weekly (Monday and Thursday): ALT, total bilirubin Day 8: ALT, bilirubin, alkaline phosphatase, GGT <input type="checkbox"/> If clinically indicated starting Day 11: daily ALT, total bilirubin, alkaline phosphatase, LDH, GGT At hour 48 (from start of methotrexate infusion) or morning of day 12, then daily q am: methotrexate levels (until less than 0.1 micromol/L; note date and time of withdrawal on the specimen.) Immediately pre-methotrexate and q6h: urine pH					
PREMEDICATIONS: For Day 1 and 2 CODOX-M portion: dexamethasone 12 mg PO 30 to 60 minutes pre-chemotherapy on days 1 and 2 and select ONE of the following: <table border="1" style="width: 100%;"> <tr> <td><input type="checkbox"/></td> <td>ondansetron 8 mg PO 30 to 60 minutes pre-chemotherapy, then 8 mg PO every 12 hours on days 1 and 2</td> </tr> <tr> <td><input type="checkbox"/></td> <td> aprepitant 125 mg PO 30 to 60 minutes pre-chemotherapy on day 1, then 80 mg PO daily on days 2 and 3 ondansetron 8 mg PO 30 to 60 minutes pre-chemotherapy, then 8 mg PO every 12 hours on days 1 and 2 </td> </tr> </table> <input type="checkbox"/> prochlorperazine 10 mg PO q 6 h prn on days 1 and 2 <input type="checkbox"/> metoclopramide 10 mg PO q 6 h prn on days 1 and 2 <input type="checkbox"/> dimenhydrinate 50 mg PO/IV q 6 h prn on days 1 and 2 For Day 8 riTUXimab portion: See riTUXimab pre-printed orders For Day 10 CODOX-M portion: ondansetron 8 mg PO/IV pre-chemotherapy. prochlorperazine 10 mg PO after methotrexate infusion completed, then 10 mg PO q4h PRN.		<input type="checkbox"/>	ondansetron 8 mg PO 30 to 60 minutes pre-chemotherapy, then 8 mg PO every 12 hours on days 1 and 2	<input type="checkbox"/>	aprepitant 125 mg PO 30 to 60 minutes pre-chemotherapy on day 1, then 80 mg PO daily on days 2 and 3 ondansetron 8 mg PO 30 to 60 minutes pre-chemotherapy, then 8 mg PO every 12 hours on days 1 and 2
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Complete filgrastim (G-CSF) pre-printed order form.					
Complete Febrile Neutropenia pre-printed order form.					
NOTE: One staff physician signature is required. Orders written by other providers MUST be cosigned. Doctor 1 Signature: _____ Doctor 2 Signature: _____					
Signatures UC: _____ RN: _____					

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LYCODOX-M (MAGRATH A) + R CHEMOTHERAPY REGIMEN	
Date/Time:	
<p>CHEMOTHERAPY:</p> <p>On _____ (day 1) at 0600h, start IV hyperhydration with NS with potassium chloride _____ mEq/L and magnesium sulfate _____ g/L at _____ mL/h (3000 mL/m²/day), and continue until 48 hours after last dose of cyclophosphamide, then decrease rate to 125 mL/h.</p> <p>Measure Q4H in/out, while patient on hyper-hydration. If output is less than 400 mL during a 4 hour period, give furosemide 20 mg IV q4h PRN Days 1 to 4.</p> <p>On _____ (day 1) at 1000hr, give cyclophosphamide _____ mg (800 mg/m²) in 100-250 mL NS IV over 30 to 60 minutes and repeat daily for a total of 2 days, day 1 and 2 (_____, _____).</p> <p>Furosemide 20 mg IV after the completion of each dose of cyclophosphamide. Urine hemastix once daily.</p> <p>On _____ (day 1) at 1200hr, give DOXOrubicin _____ mg (50 mg/m²) IV push.</p> <p>On _____ (day 1) and _____ (day 8) at 1400hr, give vinCRISTine _____ mg (1.4 mg/m², max 2 mg) in 50 mL NS IV over 15 min.</p> <p>If no peripheral blasts present, platelets greater than 50 x 10⁹/L, INR less than 1.5, and PTT less than or equal to upper limit of normal. on _____ (day 3) at _____ hr, have cytarabine 50 mg at bedside for intrathecal instillation. Complete attached LYCODOX-M-IT pre-printed order form.</p> <p>On _____ (day 8), consider riTUXimab 375 mg/m² – Complete attached LYCODOXM (+R) – riTUXimab Treatment pre-printed order form.</p>	
<p>NOTE: One staff Physician signature is required. Orders written other providers MUST be cosigned.</p> <p>Doctor 1 Signature: _____</p> <p>Doctor 2 Signature: _____</p>	<p>Signatures</p> <p>UC: _____</p> <p>RN: _____</p>

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LYCODOX-M (MAGRATH A) + R CHEMOTHERAPY REGIMEN	
Date/Time:	
CHEMOTHERAPY (Cont'd): On _____ (day 10) at 0600h, discontinue all other IV fluid hydration and start IV D5W with potassium chloride 20 mEq/L and sodium bicarbonate 150 mEq/L at 125 mL/h for at least 4 hours prior to methotrexate until urine pH is greater than 7. Hydration may be temporarily held during methotrexate infusion (per physician/nursing discretion). Continue hydration post-methotrexate infusion until methotrexate level is less than 0.1 micromol/L. At 1000h, check urinary pH, SCr, ALT, ALP, GGT, bilirubin, and for the presence of significant fluid third spacing prior to starting methotrexate. If urinary pH is greater than 7, proceed with methotrexate as below. If urinary pH is less than 7, recheck urinary pH with each void. If urinary pH is greater than 7, give methotrexate _____ g (3 g/m ²) IV in 1000 mL NS over 4 hours. Record the time at which the methotrexate infusion starts: _____ hour. This is <u>time zero</u> . Urine pH Q6H until leucovorin rescue complete - if pH less than 7, notify MD. Give leucovorin 25 mg IV Q6H x 4 doses, starting at <u>hour 24</u> (i.e., 20 hours after the methotrexate infusion ends), then continue with leucovorin 25 mg PO Q6H x 3 days. Check serum methotrexate level at <u>hour 48</u> (or morning of day 12). Physician to adjust leucovorin rescue and order further methotrexate levels as per protocol. Discontinue leucovorin , once methotrexate level is less than 0.1 micromol/L.	
SUPPORTIVE CARE: On _____ (day 12), start fluconazole 400 mg PO DAILY .	DATE:
If HSV seropositive: On _____ (day 12), start valACYclovir 500 mg PO BID OR acyclovir _____ mg (5 mg/kg) IV q12h. Please use the oral route, if the patient can swallow.	DATE:
On _____ (day 13), start filgrastim as per pre-printed order form and continue until ANC greater than 1. Complete filgrastim (G-CSF) pre-printed order form .	DATE:
NOTE: One staff Physician signature is required. Orders written by other providers MUST be cosigned.	Signatures UC: RN:
Doctor 1 Signature:	Doctor 2 Signature:

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DOCTOR'S ORDERS	Ht _____ cm	Wt _____ kg	BSA _____ m ²						
DATE:									
Date of Previous Cycle:									
<input type="checkbox"/> Delay treatment _____ week(s). <input type="checkbox"/> CBC & Diff and Platelets on the day of treatment. Proceed with treatment based on blood work from _____.									
PREMEDICATIONS: For intravenous riTUXimab infusion: diphenhydrAMINE 50 mg PO prior to riTUXimab IV and then q 4 h if IV infusion exceeds 4 h acetaminophen 650 mg to 975 mg PO prior to riTUXimab IV and then q 4 h if IV infusion exceeds 4 h For subcutaneous riTUXimab injection: diphenhydrAMINE 50 mg PO prior to riTUXimab subcutaneous acetaminophen 650 mg to 975 mg PO prior to riTUXimab subcutaneous <input type="checkbox"/> Other:									
Have Hypersensitivity Reaction Tray and Protocol Available									
TREATMENT (CONTINUED): DAY 8: ADJUNCTIVE-CHEMOTHERAPY, use Actual BSA riTUXimab (first dose) 375 mg/m² x BSA = _____ mg IV in 250 to 500 mL NS over 3 to 8 hours (may divide dose equally into 2 x 250 mL NS). Pharmacy to select riTUXimab IV brand as per Provincial Systemic Therapy Policy III-190									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Drug</th> <th style="width: 40%;">Brand (Pharmacist to complete. Please print.)</th> <th style="width: 40%;">Pharmacist Initial and Date</th> </tr> </thead> <tbody> <tr> <td>riTUXimab</td> <td></td> <td></td> </tr> </tbody> </table>				Drug	Brand (Pharmacist to complete. Please print.)	Pharmacist Initial and Date	riTUXimab		
Drug	Brand (Pharmacist to complete. Please print.)	Pharmacist Initial and Date							
riTUXimab									
TREATMENT #1: Start at 50 mg/h. After 1 hour, increase rate by 50 mg/h every 30 minutes until rate = 400 mg/h unless toxicity occurs. For first dose, patients are to be under constant visual observation during all dose increases and for 30 minutes after infusion completed. Vital signs are not required, unless symptomatic.									
NOTE: One staff Physician signature is required. Orders written by other providers MUST be cosigned.			Signatures UC: RN:						
Doctor 1 Signature:		Doctor 2 Signature:							

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DOCTOR'S ORDERS

Ht _____ cm Wt _____ kg BSA _____ m²

DATE:

TREATMENT: (Continued)

FOR ALL SUBSEQUENT TREATMENTS:

☐ Patient tolerated a full dose of IV riTUXimab (no severe reactions requiring early termination) and can proceed to subcutaneous riTUXimab:

riTUXimab subcut (RITUXAN SC) 1400 mg (fixed dose in 11.7 mL) subcutaneously into abdomen over 5 minutes. Observe for 15 minutes after administration.

NB: During treatment with subcutaneous riTUXimab, administer other subcutaneous drugs at alternative injection sites whenever possible.

☐ Patient did not tolerate a full dose of IV riTUXimab (experienced severe reactions requiring early termination) in the previous treatment and will continue with IV riTUXimab for this cycle:

riTUXimab 375 mg/m² x BSA = _____ mg

IV in 250 to 500 mL NS.

Pharmacy to select riTUXimab IV brand as per Provincial Systemic Therapy Policy III-190

Drug	Brand (Pharmacist to complete. Please print.)	Pharmacist Initial and Date
riTUXimab		

Infuse 50 mL (or 100 mL of 500 mL bag) of the dose over 30 minutes, then infuse the remaining 200 mL (or 400 mL of 500 mL bag) over 1 hour. If flushing, dyspnea, rigors, rash, pruritus, vomiting, chest pain, any other new acute discomfort or exacerbation of any existing symptoms occur, stop infusion and page physician.

For all subsequent doses, constant visual observation is not required.

NOTE: One staff Physician signature is required. Orders written by other providers MUST be cosigned.

Signatures

UC:

RN:

Doctor 1 Signature:

Doctor 2 Signature:

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PROTOCOL CODE: LYCODOX-M-IT		
Date/Time:		
CHEMOTHERAPY: (BY PHYSICIAN ONLY)		
<input type="checkbox"/> cytarabine 50 mg IT (intrathecal) qs to 6 mL with <i>preservative-free</i> NS on _____ (day 3) if no peripheral blasts, platelets greater than $50 \times 10^9/L$, INR less than 1.5 and PTT less than or equal to ULN.		
<input type="checkbox"/> cytarabine 50 mg IT (intrathecal) qs to 6 mL with <i>preservative-free</i> NS on _____ (after day 18) if no peripheral blasts, platelets greater than $50 \times 10^9/L$, INR less than 1.5 and PTT less than or equal to ULN.		
DO NOT GIVE MORE THAN ONE IT (intrathecal) MEDICATION.		
Bed rest for 30 minutes after procedure in supine position.		
For intrathecal (IT) chemotherapy:		
<input type="checkbox"/> Prophylactic dalteparin: none night prior and resume the day after the procedure		
<input type="checkbox"/> Therapeutic dalteparin *: MD to write separate order for holding therapeutic anticoagulation according to the following guidelines:		
<ul style="list-style-type: none"> - Once daily therapeutic low molecular weight heparin should be held 36 hours prior to the procedure and resumed the day after the procedure - In patients at high risk of thrombosis (e.g., acute thrombosis, less than 30 days from diagnosis of VTE), MD may consider changing to BID dosing and giving half the therapeutic dose of low molecular weight heparin at 24 hours prior to the procedure, and resuming the day after the procedure 		
<input type="checkbox"/> See General order sheet for additional requests.		
DOCTOR'S SIGNATURE:		Signatures:
(ONE SIGNATURE REQUIRED)		UC:
		RN:
MEDICATION VERIFICATION CHECKS (full signatures required)		
MEDICATION / ROUTE	DATE (DD/MM/YYYY)	SIGNATURES
cytarabine 50 mg IT (intrathecal)	DAY 3:	RN:
		MD:
	DAY _____ (after day 18):	RN:
		MD: