

## PROTOCOL CODE: LYIVACR

Page 1 of 7

### PPO FOR THE TREATMENT OF BURKITT LYMPHOMA AND LEUKEMIA

# LYIVAC (Magrath B) + R (riTUXimab) [To be used after LYCODOX-M (Magrath A) + R]

DAY	DATE	CHEMOTHERAPY				
1		Start signature sheet and dexamethasone 0.1% eye drops¹ pre cytarabine				
	_	cytarabine 2000 mg/m <sup>2</sup> IV q12h at 1000h and 2200h				
		ifosfamide 1500 mg/m <sup>2</sup> IV at 1200h				
		MESNA 375 mg/m² IV qid at 1130h, 1700h, 2000h, 2300h				
		etoposide 60 mg/m² IV at 1400h				
2 _		cytarabine 2000 mg/m² IV q12h at 1000h and 2200h				
		ifosfamide 1500 mg/m <sup>2</sup> IV at 1200h				
		MESNA 375 mg/m² IV qid at 1130h, 1700h, 2000h, 2300h				
		etoposide 60 mg/m² IV at 1400h				
3 _		ifosfamide 1500 mg/m² IV at 1200h				
		MESNA 375 mg/m² IV qid at 1130h, 1700h, 2000h, 2300h				
		etoposide 60 mg/m² IV at 1400h				
4		riTUXimab 375 mg/m² IV (or 1400 mg subcutaneous if IV tolerated)				
		ifosfamide 1500 mg/m <sup>2</sup> IV at 1200h				
		MESNA 375 mg/m <sup>2</sup> IV qid at 1130h, 1700h, 2000h, 2300h				
		etoposide 60 mg/m² IV at 1400h				
5 _		ifosfamide 1500 mg/m² IV at 1200h				
		MESNA 375 mg/m <sup>2</sup> IV qid at 1130h, 1700h, 2000h, 2300h				
		etoposide 60 mg/m² IV at 1400h				
6		methotrexate 12 mg Intrathecal, if platelets greater than or equal to 50 x 10 <sup>9</sup> /L,				
		INR less than 1.5, and PTT less than or equal to upper limit of normal.				
> 18		methotrexate 12 mg Intrathecal, after day 18, once platelets greater than or				
		equal to 50 x 109/L, INR less than 1.5, and PTT less than or equal to upper				
		limit of normal				

#### NOTES.

- 1. Continue dexamethasone 0.1% eye drops until 48 hours after last dose of cytarabine
- 2. All chemotherapy doses are calculated using actual body weight
- 3. One staff physician signature is required. Orders written by other providers MUST be cosigned.

BC Cancer Provincial Preprinted Order LYIVACR 1/7 Created: 1 Dec 2006 Revised: 1 Aug 2022



# PROTOCOL CODE: LYIVACR

Page 2 of 7

PROTOCOL CODE: LYIVAC (MAGRATH B) + R (riTUXimab) CHEMOTHERAPY REGIMEN					
REMINDER: Please ensure drug allergies and previous bleomycin are documented on the Allergy & Alert Form.					
Date/Time: Cycle #:					
Admit to inpatient bed  GENERAL CONSENT SIGNED					
LABORATORY:					
<b>Before each treatment:</b> CBC & diff, platelets, creatinine, sodium, potassium, ALT, bilirubin, alkaline phosphatase, GGT, uric acid, LDH, urine dipstick for blood					
Daily q am during treatment: CBC & diff, platelets, creatinine, sodium, potassium					
Every Monday and Thursday during treatment: ALT					
Daily q am until 48 hours after completion of ifosfamide: urine dipstick for blood. If positive at any time, notify doctor and send urine sample for urinalysis for verification and accurate determination of hematuria.					
Before each IT methotrexate (on Day 6 and after Day 18): PTT, INR, Platelets					
PREMEDICATIONS:					
For Day 1 to 5 IVAC portion:					
<ul> <li>ondansetron 8 mg PO/IV pre-chemotherapy, then every 12 hours until day 5</li> </ul>					
<ul> <li>dexamethasone 12 mg PO pre-chemotherapy daily until day 5</li> </ul>					
For Day 4 riTUXimab portion:					
See riTUXimab pre-printed order					
dimenhyDRINATE 50mg IV q 6 h prn					
Complete G-CSF (filgrastim) 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.	Signatures				
	UC:				
Doctor 1 Signature: Doctor 2 Signature: RN:					

BC Cancer Provincial Preprinted Order LYIVACR 2/7 Created: 1 Dec 2006 Revised: 1 Aug 2022



PROTOCOL CODE: LYIVACR

Page 3 of 7

LYIVAC (MAGRATH B) + R (riTUXimab) CHEMOTHERAPY REGIMEN				
REMINDER: Please ensure drug allergies and previous bleomycin are documented on the Allergy & Alert Form.				
Date/Time:				
CHEMOTHERAPY:  On (day 1) at 0600h or at least 4 hours before starting chemotherapy, start IV hydration with D5W ½ NS +				
mEq potassium chloride/L + g magnesium sulfate/L at 125 mL/h (3000 mL/day).  On (day 1) at 1000h or at least 4 hours after start of hydration, give <b>cytarabine</b> mg (2000 mg/m²) in 100				
mL NS IV over 2 hours. Repeat q12h for a total of 4 doses (				
Start signature screening sheet for cytarabine cerebellar toxicity.				
On (day 1) at 1200h, give <b>ifosfamide</b> mg (1500 mg/m²) in 500 mL NS IV over 2 hours. Repeat daily for a total of 5 days (,,).				
On (day 1), 30 minutes prior to ifosfamide dose, give <b>MESNA</b> mg (375 mg/m²) in 100 mL D5W IV over 15 minutes, then repeat at 3, 6 and 9 hours after ifosfamide dose (i.e., 4 doses/day for a total of MESNA 1500 mg/m²/day). Repeat daily for a total of 5 days (,,).				
On (day 1) at 1400h, give <b>etoposide</b> mg (60 mg/m²) in 250 to 500 mL (non-DEHP bag) NS IV over 45 minutes (use non-DEHP tubing with 0.2 micron in-line filter). Repeat daily for a total of 5 days (,,,				
NOTE: One staff Physician signature is required. Orders written by other providers MUST be cosigned.	Signatures			
	UC:			
Doctor 1 Signature: Doctor 2 Signature:	RN:			

Created: 1 Dec 2006 Revised: 1 Aug 2022



PROTOCOL CODE: LYIVACR

Page 4 of 7

LYIVAC (MAGRATH B) + R (riTUXImab) CHEMOTHERAPY REGIMEN					
Date/Time:					
CHEMOTHERAPY (Cont'd):					
On (day 4), give <b>riTUXimab</b> 375mg/m² – Complete attached <b>LYIVACR – riTUXimab Treatment</b> pre- printed order form.					
On (day 6) ath, have <b>methotrexate</b> 12 mg at bedside for intrathecal instillation, if platelet recovery greater than or equal to 50 x 10 <sup>9</sup> /L, INR less than 1.5, and PTT less than or equal to ULN – Complete attached <b>LYIVAC-IT</b> pre-printed order form.					
<b>methotrexate</b> 12 mg also to be given via intrathecal instillation after day 18, once platelet count is greater than or equal to 50 x 10 <sup>9</sup> /L, INR less than 1.5, and PTT less than or equal to ULN – Complete attached <b>LYIVAC-IT</b> pre-printed order form.					
A total of 8 doses of intrathecal chemotherapy should be given during the course of all treatments, 2 doses per cycle of chemotherapy, then the concluding doses, 1 dose per week, after all other treatments are complete.					
SUPPORTIVE CARE:	DATE:				
On (day 7), start fluconazole 400 mg PO DAILY					
For HSV seropositive: On (day 7), start valACYclovir 500 mg PO BID	DATE:				
OR acyclovir mg (5 mg/kg) IV q12h. Please use the oral route, if the patient can swallow.					
On (day 7), start filgrastim as per pre-printed order, 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				
be cosigned.	UC:				
Doctor 1 Signature: Doctor 2 Signature:	RN:				

Created: 1 Dec 2006 Revised: 1 Aug 2022



PROTOCOL CODE: LYIVACR

Page 5 of 7

DO	OCTOR'S O	RDERS	Ht	cm	Wt	kg	BSA	m²
DA	TE:							
Dat	te of Previous C	ycle:						
	Delay treatmen		_week(s).	£ 4 4				
l ⊔ Pro	CBC & Diff and occeed with treat		,					
	EMEDICATIO		d OII BIOOU	<u> </u>		·		
	LINEDIGATIO	110.						
Fo	<u>r intravenous</u> ri	TIIXimah in	nfusion:					
				JXimab IV and	then a 4 h if	IV infusion exce	eds 4 h	
_	-	•	•		•	en q 4 h if IV infu		ds 4 h
	•	J				·		
	r subcutaneous							
_	henhydrAMINE	•	•					
ace	etaminophen 65	50 mg to 97	<b>5 mg</b> PO pr	ior to <b>riTUXima</b>	ıb subcutar	neous		
П	Other:							
			**Have Hy	persensitivity	Tray and P	rotocol Availab	le**	
TR	EATMENT: (C	ontinued)						
On		(day 4):						
AD	JUNCTIVE CHE	MOTHERA	PY, use Act	ual BSA				
riTi	UXimab (first de	nse) 375 mc	n/m² x RSA	=	mg			
						to 2 x 250 mL N	S.	
Pha	armacy to select	riTUXimab l	IV brand as	per Provincial S	Systemic The	erapy Policy III-1	90	
	Drug	Brand (Ph	armacist to	complete. Ple	ease print.)	Pharmacist In	itial and Da	te
	riTUXimab							
						<u> </u>		
TREATMENT #1:								
Start at 50 mg/h. After 60 minutes, increase rate by 50 mg/h every 30 minutes until rate = 400 mg/h unless toxicity								
occurs.								
For first doop, notice to be under constant visual charge time during all doop increases and for 20 minutes of the								
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.								
<b>—</b>	NOTE: One stoff Physician signature is required. Orders written by other providers MUST							
	NOTE: One staff Physician signature is required. Orders written by other providers MUST be cosigned.					Signatures		
l ne	cosigneu.							UC:
Do	ctor 1 Signatur	e:		Doct	or 2 Signat	ure:		RN:

BC Cancer Provincial Preprinted Order LYIVACR Created: 1 Dec 2006 Revised: 1 Aug 2022



# PROTOCOL CODE: LYIVACR

Page 6 of 7

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 Da	ate				
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 Signatures					
be cosigned.	UC:				
	RN:				
Doctor 1 Signature: Doctor 2 Signature:					

BC Cancer Provincial Preprinted Order LYIVACR 6/7 Created: 1 Dec 2006 Revised: 1 Aug 2022



PROTOCOL CODE: LYIVACR

Page 7 of 7

PROTOCOL CODE: LYIVAC -IT					
REMINDER: Please ensure drug allergies and previous bleomycin are documented on the Allergy & Alert Form.					
Date/Time:					
INTRATHECAL (IT) CHEMOTHERAPY: (BY PHYSICIAN ONLY)					
methotrexate 12 mg IT (intrathecal) qs to 6 mL with <i>preservative-free</i> NS on (day 6), if platelets greater than or equal to 50 x 10 <sup>9</sup> /L, INR less than 1.5, and PTT less than or equal to ULN					
methotrexate 12 mg IT (intrathecal) qs to 6 mL with <i>preservative-free</i> NS on (after day 18), if platelets greater than or equal to 50 x 10 <sup>9</sup> /L, INR less than 1.5, and PTT less than or equal to ULN					
DO NOT GIVE MORE THAN ONE IT (intrathecal) MEDICATION at any given time.					
Bed rest for 30 minutes after procedure in supine position.					
For intrathecal (IT) chemotherapy:    Prophylactic dalteparin: none night prior and resume the day after the procedure   Therapeutic dalteparin *: MD to write separate order for holding therapeutic anticoagulation according to the following guidelines:   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    See General order sheet for additional requests.    Doctor's signatures:					
MEDICATION VERIFICATION CHECKS Full Signatures Required					
Medication/Route	Day 6	Day	(after day 18)		
Date (dd/mm/yyyy)					
methotrexate 12mg IT	methotrexate 12mg IT (RN)				
(MD)					

BC Cancer Provincial Preprinted Order LYIVACR Created: 1 Dec 2006 Revised: 1 Aug 2022