BC Cancer Protocol Summary for Treatment of Lymphoma with Dose-Adjusted Etoposide, DOXOrubicin, vinCRIStine, Cyclophosphamide, predniSONE and riTUXimab with Intrathecal Methotrexate

Protocol Code LYEPOCHR

Tumour Group Lymphoma

Contact Physician Dr. Laurie Sehn

Dr. Kerry Savage

Dr. Alina Gerrie

ELIGIBILITY:

One of the following lymphomas:

- Patients with an aggressive B-cell lymphoma and the presence of a dual translocation of MYC and BCL2/BCL6 (i.e., double-hit lymphoma). Histologies may include DLBCL, transformed lymphoma, unclassifiable lymphoma, and intermediate or high-grade lymphoma, not otherwise specified (NOS).
- Patients with Burkitt lymphoma, who are not candidates for LYCODOXMR/LYIVACR (such as those over the age of 65 years, or with significant co-morbidities)
- Primary mediastinal B-cell lymphoma

Note: For outpatient administration, care team to consider patient's functional mobility to carry a pump and bag 24 hours per day, available supports at home, cognitive ability, and ability for patient and/or caregiver to call into the Cancer Centre if any issues arise.

Ensure patient has central line

TESTS:

- Baseline: CBC & Diff, urea, creatinine, total bilirubin, ALT, LDH, uric acid
- Baseline (required, but results do not have to be available to proceed with first treatment): results must be checked before proceeding with cycle 2): HBsAg, HBsAb, HBcoreAb
- Baseline (optional, results do not have to be available to proceed with first treatment): HCAb,
 HIV
- Baseline, if clinically indicated: potassium, calcium, phosphate, urinalysis
- Prior to each cycle: CBC & Diff, INR, PTT
- Prior to each cycle, if clinically indicated: creatinine, total bilirubin, ALT, alkaline phosphatase, LDH, urinalysis
- Days 4 of each cycle (or days of intrathecal treatment, within 24 h): CBC & Diff, PTT, INR
- CBC & Diff starting Cycle 1 Day 4 and then twice-weekly (i.e., Monday and Thursday) continuously during treatment and for 3 weeks following last cycle.
- For patients on cyclophosphamide doses greater than 2000 mg: Daily urine dipstick for blood starting on day cyclophosphamide is given. If positive at any time, notify doctor and send urine sample for urinalysis and verification and accurate determination of hematuria.
- If clinically indicated, every 3 months: HB viral load (see protocol SCHBV)

PREMEDICATIONS:

For etoposide, prednisone, vinCRIStine, cyclophosphamide, DOXOrubicin (EPOCH) portion

Antiemetic protocol for highly emetogenic chemotherapy (see protocol SCNAUSEA)

For riTUXimab portion

- diphenhydrAMINE 50 mg PO <u>prior to riTUXimab and then</u> q4h during the IV infusion, <u>if infusion</u> exceeds 4 h
- acetaminophen 650 to 975 mg PO prior to riTUXimab and then q4h during the IV infusion, if infusion exceeds 4 h
- predniSONE as ordered for the LYEPOCHR protocol

SUPPORTIVE MEDICATIONS:

- Very high risk of hepatitis B reactivation. If HBsAg or HBcoreAb positive, follow hepatitis B prophylaxis as per SCHBV.
- cotrimoxazole 1 DS tab PO 3 times each week (Monday, Wednesday and Friday)
- pantoprazole 40 mg PO daily (or equivalent)
- docusate and senna (sennosides 8.6 mg) 2 tablets PO twice daily prn constipation

Prevention of Tumor Lysis Syndrome (TLS) - Cycle 1 only:

Patients deemed to be at high-risk of TLS should be treated as an inpatient.

Prophylaxis is suggested for high-risk patients with any of the following:

- High tumour burden,
- Elevated uric acid level
- Lymphocyte count greater than 25 x 10⁹/L, or
- Creatinine clearance less than 70 mL/min

Suggested prophylactic treatment:

- Monitor electrolytes (including potassium, calcium, and phosphate), creatinine and uric acid
- Allopurinol 300 mg PO daily
- Ensure adequate hydration. Intravenous fluids should be given as indicated based on overall risk of tumour lysis syndrome. For Cycle 1, hospitalized high-risk patients should be given aggressive hydration (2-3 L/m²/24 h) to achieve urine output greater than 100 mL/h. If phosphate becomes elevated, add AMPHOJEL (aluminum hydroxide) 15-30 mL PO g4h.
- rasburicase (FASTURTEC) can be considered on a case-by-case basis

TREATMENT:

| TREATMENT SO | CHEMA |
|--------------|---|
| Day 1 | cyclophosphamide IV x 1 hour etoposide, DOXOrubicin, vinCRIStine IV continuous x 24 hours predniSONE orally twice a day |
| Day 2 | etoposide, DOXOrubicin, vinCRIStine IV continuous x 24 hours methotrexate intrathecal* predniSONEorally twice a day |
| Day 3 | etoposide, DOXOrubicin, vinCRIStine IV continuous x 24 hours predniSONE orally twice a day |
| Day 4 | Etoposide, DOXOrubicin, vinCRIStine IV continuous x 24 hours predniSONE orally twice a day |
| Day 5 | riTUXimab IV or SC methotrexate intrathecal* predniSONE orally twice a day |

^{*}methotrexate intrathecal injections to start in Cycle 3 and are administered on Day 2 and Day 5

| Drug | Dose | | BC Cancer Administration Guideline | | | |
|------------------|--|--|---|--|--|--|
| | Cycles 1 to 6: Day 5 after etoposide, DOXOrubicin, vincristine Physician may change the day of riTUXimab treatment | | | | | |
| ·TING 1441 | 375 mg/m ² See precautions below | IV in 250 t | to 500 mL NS over 1 hour 30 min to 8 | | | |
| riTUXimab**† | If patient received IV riTUXimab in the past 6 months with no severe reactions requiring early termination, or if patient received subcutaneous riTUXimab in the past 6 months, riTUXimab doses can be given by subcutaneous administration† | | | | | |
| | 1400 mg (fixed dose in 11.7 mL) See precautions below | subcutaneous over 5 minutes into abdominal wa Observe for 15 minutes after administration | | | | |
| predniSONE | Cycle 1 to Cycle 6: on Day 1 to Day 5 inclusive: Total daily dose = 120 mg/m² i.e., 60 mg/m² BID (round off dose to nearest 25 mg) Note: may reduce predniSONE dose per physician discretion based on patient tolerance | | PO with food (On day of riTUXimab, ensure morning predniSONE taken prior to riTUXimab infusion) | | | |
| cyclophosphamide | Cycle 1 to Cycle 6: on Day 5, after etoposide, DOXOrubicin, vinCRIStine: 750 mg/m² Physician may change the day of cyclophosphamide treatment | | IV in 100 to 250 mL NS over 1 hour (*use 250 mL for doses greater than 1000 mg) If rituximab and cyclophosphamide will be administered on same day, rituximab should administered first, followed by cyclophosphamide | | | |

| Drug | Dose | BC Cancer Administration Guideline |
|----------------------------|--|---|
| etoposide | Cycle 1 to Cycle 6, on Day 1 to Day 4 inclusive: 50 mg/m²/day (total dose per cycle = 200 mg/m²) | IV in the same 500-1000 mL non-DEHP NS infusion bag by continuous infusion over 24 h daily; for a total of 96 hours per cycle (use non-DEHP equipment with 0.2 micron in-line filter) - 500 mL non-DEHP NS for etoposide less than or equal to 125 mg - 1000 mL non-DEHP NS for etoposide greater than 125 mg |
| DOXOrubicin | Cycle 1 to Cycle 6, on Day 1 to Day 4 inclusive: 10 mg/m²/day (total dose per cycle = 40 mg/m²) | Treatment should be administered as an inpatient. May be administered in outpatient setting in BC Cancer – Vancouver Center only, using CADD-Solis VIP ambulatory pump |
| vinCRIStine | Cycle 1 to Cycle 6: on Day 1 to Day 4 inclusive: 0.4 mg/m²/day (no cap on dose) (total dose per cycle = 1.6 mg/m²) | |
| Optional:* methotrexate*** | Prophylaxis Cycle 3 to 6: on Day 2 and Day 5: 12 mg (total 8 treatments) Note: Physician may start intrathecal chemotherapy with Cycle 1 if high risk of CNS disease Physician may change the days of intrathecal chemotherapy Ensure a minimum of 48 hours between doses | Administered by physician only Intrathecal qs to 6 mL with preservative- free NS Bedrest in supine position without pillow for 30 min after procedure |

| Drug | Dose | BC Cancer Administration Guideline | |
|------------|--|------------------------------------|--|
| | Cycle 1 to Cycle 6: Starting on Day 6 | | |
| filgrastim | DAILY until ANC recovery (5.0 x 10 ⁹ /L past the nadir) | | |
| | 300 mcg: up to 75 kg | subcutaneously | |
| | 480 mcg: 76kg to 110 kg | | |
| | 600 mcg: greater than 110kg | | |

^{*}Start the (first dose of riTUXimab) initial infusion at 50 mg/h and, after 1 hour, increase by 50 mg/h every 30 minutes until a rate of 400 mg/h is reached. *For all subsequent treatments*, infuse 50 mL (or 100 mL) of the dose over 30 minutes then infuse the remaining 200 mL (or 400 mL) (4/5) over 1 hour (total infusion time = 1 hour 30 min). Development of an allergic reaction may require a slower infusion rate. See infusion-related reactions below.

†Patients must receive first dose by IV infusion (using the IV formulation) because the risk of reactions is highest with the first infusion. IV administration allows for better management of reactions by slowing or stopping the infusion. IV first dose should also be given to patients previously treated more than 6 months ago. If patient tolerated IV riTUXimab (no severe reactions requiring early termination) or subcutaneous rituximab, i.e., in active treatment or maintenance treatment, the patient can receive all subsequent treatment using subcutaneous riTUXimab. If restarting more than 6 months from prior subcutaneous riTUXimab, give first dose by IV infusion (using the IV formulation).

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

***Concurrent use of co-trimoxazole and methotrexate may result in an increased risk of methotrexate toxicity. The tumour group believes this drug interaction is not clinically significant with IT methotrexate 12 mg.

¥ Intrathecal methotrexate is not needed in the majority of patients with primary mediastinal B cell lymphoma

Treatment of Leptomeningeal Lymphoma

If the CSF is cytologically positive for malignant cells at the start of therapy, the CSF should be treated with methotrexate and/or cytarabine as soon as possible. Suggested treatment as follows:

Induction- intrathecal methotrexate (12 mg by lumbar route) alternating with cytarabine (50 mg by lumbar route). Administer induction treatment twice a week for 2 weeks past negative cytology with a minimum of 4 weeks treatment.

Consolidation- Following induction, change frequency to weekly x 6, alternating methotrexate and cytarabine.

Maintenance- Following consolidation, change frequency to monthly x 4 (with either methotrexate or cytarabine).

Due to unforeseeable events, the above therapy may be modified as clinically indicated. In some cases it may be necessary to administer radiation to the head and/or spine. Patients who fail to clear or relapse in the CSF should be considered for alternate therapies and/or radiation.

^{**}The risk of cytokine release syndrome is low but is increased when the peripheral blood lymphocyte count is greater than 30 to 50 x 10⁹ /L. While there is no requirement to withhold riTUXimab based on lymphocyte count, clinicians may wish to pre-medicate patients with high tumour burden with steroids prior to riTUXimab infusion or omit the riTUXimab from the first cycle of treatment.

Substitution with liposomal cytarabine can be considered, but schedule should be determined in consultation with a BC Cancer pharmacist. Note: liposomal cytarabine is accessed via the Health Canada Special Access Programme (SAP) on a patient-specific basis.

Repeat protocol every 21 days for 6 cycles. Discontinue if no response after 2 cycles.

DOSE MODIFICATIONS:

Hematological:

a) On Day 1

| ANC (x10°/L) | Dose Modification |
|------------------------------|---|
| greater than or equal to 1.0 | 100% |
| less than 1.0 | filgrastim 5 mcg/kg x 1 day then treat the following day if ANC is greater than 1.0 |

| Platelets (x10 ⁹ /L) | Dose Modification |
|---------------------------------|---|
| greater than or equal to 75 | 100% |
| less than 75 | delay until platelets are greater than 75 |

Patients with bone marrow involvement should be treated irrespective of the ANC and platelet counts based on physician discretion.

Dose levels are adjusted based on nadir ANC and platelet count of last cycle:

| Nadir ANC (x 10 ⁹ /L) | | Nadir Platelet (x 10 ⁹ /L) | Dose Level |
|--|-----|---------------------------------------|---|
| greater than or equal to 0.5 | and | greater than or equal to 25 | Increase by one dose level above last cycle* |
| less than 0.5 on one or two measurements | and | greater than or equal to 25 | Maintain same dose level as last cycle |
| less than 0.5 on 3 or more measurements | or | less than 25 | Decrease by one dose level below last cycle** |

^{*}Dose adjustments ABOVE level 1 apply to etoposide, DOXOrubicin and cyclophosphamide **Dose adjustments BELOW level 1 apply to cyclophosphamide only

Note: Rarely, patients may develop prolonged neutropenia (ANC less than 0.5) for over seven days or life-threatening infections associated with organ failure or prolonged morbidity. In these cases, clinicians should use their clinical judgement regarding dose reduction. No need to reduce doses for:

- non-life threatening infections
- non-life threatening neutropenia or thrombocytopenia in patients with bone marrow compromise due to marrow involvement by lymphoma

| | Etoposide Dose Level | | | | | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|
| -2 -1 1* 2 3 4 5 6 | | | | | | | 6 |
| 50 mg/m ² | 50 mg/m ² | 50 mg/m ² | 60 mg/m ² | 72 mg/m ² | 86 mg/m ² | 104 mg/m ² | 124 mg/m ² |

^{*}starting dose level

| DOXOrubicin Dose Level* | | | | | | | |
|--|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| -2 -1 1* 2 3 4 5 6 | | | | | | | 6 |
| 10 mg/m ² | 10 mg/m ² | 10 mg/m ² | 12 mg/m ² | 14 mg/m ² | 17 mg/m ² | 21 mg/m ² | 25 mg/m ² |

^{*}starting dose level

| | Cyclophosphamide Dose Level*† | | | | | | |
|---|-------------------------------|--|--|--|--|--|---|
| -2 -1 1* 2 3 4 5 6 | | | | | | | 6 |
| 480 mg/m ² 600 mg/m ² 750 mg/m ² 900 mg/m ² 1080 mg/m ² 1296 mg/m ² 1555 mg/m ² 1866 mg/m ² | | | | | | | |

^{*}starting dose level

Note: Individual drug doses may be reduced per physician discretion (rather than according to dose level)

[†]Mesna is recommended when cyclophosphamide dose exceeds 2000 mg to prevent hemorrhagic cystitis. See Table 1 for mesna dose.

Table 1: Mesna dose when cyclophosphamide dose exceeds 2000 mg

| Cyclophosphamide Dose level | Drug | Dose | BC Cancer Administration Guideline |
|--------------------------------|-------------------|------------------------|------------------------------------|
| | mesna* | 150 mg/m ² | IV in 100 mL NS over 15 min |
| | cyclophosphamide | 750 mg/m ² | IV in 250 mL NS over 1 hour |
| | | | Hours 4 and 8: |
| 1 | | 300 mg/m ² | PO in carbonated beverage |
| | mesna* | 3 | <u>OR</u> |
| | | 150 mg/m ² | IV in 100 mL NS over 15 minutes |
| | mesna* | 180 mg/m ² | IV in 100 mL NS over 15 min |
| | cyclophosphamide | 900 mg/m ² | IV in 250 mL NS over 1 hour |
| 2 | | | Hours 4 and 8: |
| 2 | mesna* | 360 mg/m ² | PO in carbonated beverage |
| | mesna | | <u>OR</u> |
| | | 180 mg/m ² | IV in 100 mL NS over 15 minutes |
| | mesna* | 216 mg/m ² | IV in 100 mL NS over 15 min |
| | cyclophosphamide | 1080 mg/m ² | IV in 250 mL NS over 1 hour |
| 3 | | | Hours 4 and 8: |
| | | 432 mg/m ² | PO in carbonated beverage |
| | mesna* | 040 / 2 | <u>OR</u> |
| | | 216 mg/m ² | IV in 100 mL NS over 15 minutes |
| | mesna* | 259 mg/m ² | IV in 100 mL NS over 15 min |
| | cyclophosphamide | 1296 mg/m ² | IV in 250 mL NS over 1 hour |
| 4 | | 540 ··· · · /·· · 2 | Hours 4 and 8: |
| | mesna* | 518 mg/m ² | PO in carbonated beverage |
| | IIICSIIa | 259 mg/m ² | OR IV in 100 mL NS over 15 minutes |
| | mesna* | 311 mg/m ² | IV in 100 mL NS over 15 min |
| | cyclophosphamide | 1555 mg/m ² | IV in 250 mL NS over 1 hour |
| 5 | бубібріїборіїанії | 1000 mg/m | Hours 4 and 8: |
| | | 622 mg/m ² | PO in carbonated beverage |
| | mesna* | 3 | <u>OR</u> |
| | | 311 mg/m ² | IV in 100 mL NS over 15 minutes |
| | mesna* | 373 mg/m ² | IV in 100 mL NS over 15 min |
| | cyclophosphamide | 1866 mg/m ² | IV in 250 mL NS over 1 hour |
| 6 | | | Hours 4 and 8: |
| | | 746 mg/m ² | PO in carbonated beverage |
| | mesna* | _ | <u>OR</u> |
| | | 373 mg/m ² | IV in 100 mL NS over 15 minutes |

^{*} If cyclophosphamide dose is reduced, mesna should also be reduced accordingly (i.e. if cyclophosphamide is reduced to 75%, mesna should also be reduced to 75%)

Patients must drink at least 3 Litres of fluids a day to ensure adequate hydration on day of cyclophosphamide and continue for 24-72 hours following treatment. If unable to drink 3 Litres per day, give the following hydration:

HYDRATION:

If cyclophosphamide dose exceeds 2000mg and patient is unable to maintain adequate oral hydration of 3 Litres of fluids a day, admit patient for hydration following cyclophosphamide dose:

Hours 1:15 to 13:15: IV D5W-1/2 NS at 125 mL/h

May discontinue IV at hour 13:15 if no hematuria and patient is able to maintain oral hydration.

Elderly Patients (age greater than 75 years):

As per clinical judgment, a suggested approach is to administer Cycle 1 with 75% dosing of cyclophosphamide and DOXOrubicin. Further treatment should be given at the maximum dose tolerated by the patient, trying to escalate up to full doses.

Ileus: vinCRIStine only

Note: constipation commonly occurs and stool softeners should be used

| Clinical ileus | Dose of vinCRIStine | |
|--|--|--|
| Less than 8 days with abdominal pain requiring narcotics and/or | 75% | |
| persistent nausea/vomiting greater than 2 days | | |
| 8-12 days with abdominal pain requiring narcotics | | |
| and/or | 50% | |
| persistent nausea/vomiting greater than 2 days | | |
| Greater than 12 days with abdominal pain requiring narcotics and/or persistent nausea/vomiting greater than 2 days | Hold on next cycle. Restart at 50% dose on subsequent cycle. | |

Neurotoxicity: vinCRIStine only:

| Toxicity | Dose of vinCRIStine |
|------------------------------|---------------------|
| Dysesthesias, areflexia only | 100 % |
| Abnormal buttoning, writing | 67% |
| Motor neuropathy, moderate | 50% |
| Motor neuropathy, severe | omit |

Hepatic toxicity: vinCRIStine only

| Bilirubin on Day 1 | Dose of vinCRIStine |
|------------------------|---------------------|
| 1.5-3.0 x ULN | 75% |
| Greater than 3.0 x ULN | 50% |

Cardiotoxicity: DOXOrubicin only: see PRECAUTIONS

PRECAUTIONS:

- 1. **Neutropenia**: Fever or other evidence of infection must be assessed promptly and treated aggressively.
- 2. **Cardiac Toxicity**: DOXOrubicin is cardiotoxic and must be used with caution, if at all, in patients with severe hypertension or cardiac dysfunction. Cardiac assessment is recommended if patient has received greater than or equal to 300 mg/m² of DOXOrubicin. (BC Cancer Drug Manual). Work-up may include an assessment of cardiac ejection fraction, and cardiac oncology referral if necessary.
- 3. **Extravasation**: DOXOrubicin and vinCRIStine cause pain and tissue necrosis if extravasated. Refer to BC Cancer Extravasation Guidelines.
- 4. Infusion-related reactions: If applicable, monitor etoposide infusion for the first 15 minutes for signs of hypotension. Refer to BC Cancer Infusion-Related Reactions Guidelines. RiTUXimab can cause allergic type reactions during the IV infusion such as hypotension, wheezing, rash, flushing, alarm, pruritus, sneezing, cough, fever or faintness. For first dose, patients are to be under constant visual observation during all dose increases and for 30 minutes after infusion is completed. For all subsequent doses, constant visual observation is not required. Vital signs are not required unless symptomatic. Because transient hypotension may occur during infusion, consider withholding antihypertensive medications 12 hours prior to RiTUXimab infusion. If an allergic reaction occurs, stop the infusion and the physician in charge should determine a safe time and rate to resume the infusion. A reasonable guideline is as follows. After recovery of symptoms, restart RiTUXimab infusion at one infusion rate below the rate at which the reaction occurred and continue with escalation of infusion rates on the appropriate schedule above. If the infusion must be stopped a second time, restart after clearance of symptoms, at one infusion rate lower and continue at that rate without further escalation. Fatal cytokine release syndrome can occur (see below). See BC Cancer Infusion-Related Reactions Guidelines.
- 5. Fatal Cytokine Release Syndrome has been reported. It usually occurs within 1-2 hours of initiating the first infusion. Initially, it is characterised by severe dyspnea (often with bronchospasm and hypoxia) in addition to fever, chills, rigors, urticaria and angioedema. Pulmonary interstitial infiltrates or edema visible on chest x-ray may accompany acute respiratory failure. There may be features of tumour lysis syndrome such as hyperuricemia, hypocalcemia, acute renal failure and elevated LDH. For severe reactions, stop the infusion immediately and evaluate for tumour lysis syndrome and pulmonary infiltration. Aggressive symptomatic treatment is required. The infusion can be resumed at no more than one-half the previous rate once all symptoms have resolved, and laboratory values and chest x-ray findings have normalized.
- 6. **Rare Severe Mucocutaneous Reactions:** (similar to Stevens-Johnson Syndrome) have been anecdotally reported. If such a reaction occurs, riTUXimab should be discontinued.
- 7. Hepatitis B Reactivation See SCHBV protocol for more details.
- 8. **Gastrointestinal Obstruction or Perforation:** There have been rare reports of gastrointestinal obstruction or perforation, sometimes fatal, when riTUXimab is given in combination with other chemotherapy, occurring 1 to 12 weeks after treatment. Symptoms possibly indicative of such complications should be carefully investigated and appropriately treated.
- 9. Hematuria: Cyclophosphamide may cause hemorrhagic cystitis at high doses. Adequate hydration (at least 3 Litres of fluid a day) and the use of mesna is recommended when cyclophosphamide dose exceeds 2000 mg which may occur at cyclophosphamide dose level 3 or higher. Refer to Table 1 for mesna dosing. For patients on doses greater than 2000mg, perform daily urine dipstick for blood. If positive at any time, notify doctor and send urine sample for urinalysis and verification and accurate determination of hematuria.

Call Dr. Laurie Sehn, Dr Kerry Savage, Dr. Alina Gerrie or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

References:

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