BC Cancer Protocol Summary for Treatment of Hodgkin Lymphoma with Cyclophosphamide, vinBLAStine, Procarbazine, predniSONE, DOXOrubicin, vinCRIStine and Bleomycin

Protocol Code

Tumour Group

Contact Physician

LYCVPPABO Lymphoma

Dr. Kerry Savage

ELIGIBILITY:

- Histology: Hodgkin lymphoma, all stages
- Only for patients who cannot be treated with (LY)ABVD due to a specific drug contraindication

TESTS:

- Baseline (required before first treatment): CBC & Diff, total bilirubin, ALT, creatinine
- 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
- Before each treatment: CBC & Diff, (and total bilirubin if elevated at baseline)
- If clinically indicated: HBV viral load, ALT (see protocol SCHBV)

PREMEDICATIONS:

ondansetron 8 mg PO pre-chemotherapy dexamethasone 12 mg PO pre-chemotherapy hydrocortisone 100 mg IV in 50 to 100 mL NS over 15 to 30 minutes prior to bleomycin on day 8

SUPPORTIVE MEDICATIONS:

High risk of hepatitis B reactivation. If HBsAg or HBcoreAb positive, follow hepatitis B prophylaxis as per SCHBV.

TREATMENT:

| Drug | Dose | BC Cancer Administration Guideline |
|------------------|--------------------------------------|---|
| vinBLAStine | 6 mg/m² on day 1 | IV in 50 mL NS over 15 minutes |
| cyclophosphamide | 600 mg/m ² on day 1 | IV in 100 to 250* mL NS over 20 minutes to 1 hour (*use 250 mL for doses greater than 1000 mg) |
| procarbazine | 100 mg/m ² on days 1 to 7 | PO |
| predniSONE | 45 mg/m ² days 1 to 14 | PO in am with food |

Dav 8:

| Drug | Dose | BC Cancer Administration Guideline |
|-----------------------------------|---------------------------------|------------------------------------|
| DOXOrubicin | 35 mg/m ² on day 8 | IV push |
| vinCRIStine (* no cap on dose) | 1.4 mg/m ² on day 8 | in 50 mL NS over 15 mins |
| bleomycin | 10 unit/m ² on day 8 | IV in 50 mL NS over 15 min |
| Repeat each treatment | cycle every 28 days | |

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BC Cancer Protocol Summary LYCVPPABO

Page 1 of 4 Activated: 1 Jan 2004 Revised: 1 Dec 2024 (Tests, supportive medications and precautions updated, dose

modifications clarified) Warning: The information contained in these documents are a statement of consensus of BC Cancer professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is a your own risk and is subject to BC Cancer's terms of use available at www.bccancer.bc.ca/terms-of-use Limited stage: CVPPABO x 2 cycles then PET scan

If PET negative -> CVPPABO x 2 more cycles

If PET positive or indeterminate -> involved field radiation

Advanced stage: CVPPABO x 6 then CT scan (and marrow biopsy if positive prior to ABVD)

If CR, no further treatment

If otherwise in CR but residual mass greater than 2 cm do PET scan

If PET negative, no further treatment

If PET positive and encompassable in a reasonable radiation field -> residual disease radiation

If PET positive and not encompassable in a reasonable radiation field -> close observation or biopsy to direct further treatment on proof of persistent lymphoma.

DOSE MODIFICATIONS:

1. Hematological:

Standard dose reduction for day 1

| ANC (x 10 ⁹ /L) | Dose Modification |
|------------------------------|---|
| greater than or equal to 0.8 | 100 % |
| less than 0.8 | 100 % plus Filgrastim 300 mcg daily x 5 days, starting day 9 of each cycle |

Standard dose reduction for day 8

| ANC (x 10 ⁹ /L) | Dose Modification |
|------------------------------|----------------------------------|
| greater than or equal to 0.8 | 100 % |
| less than 0.8 | Omit DOXOrubicin from this cycle |

* The patient should be treated with <u>Filgrastim (G-CSF)</u> in doses sufficient to allow full dose treatment on schedule using the above dose modifications. Note: this guideline applies only if the treatment is potentially curative and after experience with one or more cycles of treatment indicate Filgrastim (G-CSF) is required. (See Pharmacare guidelines)

Consider RBC transfusion support in individuals that have an expected hemoglobin nadir below 70 to 80 g/L and platelet transfusions to keep platelets greater than 20 x 10⁹/L.

2. Neurotoxicity: vinBLAStine and vinCRIStine only

| Toxicity | Dose Modification |
|------------------------------|-------------------|
| Dysesthesias, areflexia only | 100% |
| Abnormal buttoning, writing | 67% |
| Motor neuropathy, moderate | 50% |

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Page 2 of 4 Activated: 1 Jan 2004 Revised: 1 Dec 2024 (Tests, supportive medications and precautions updated, dose modifications clarified)

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| Motor neuropathy, severe | Omit |
|--------------------------|------|
|--------------------------|------|

2. Hepatotoxicity: For DOXOrubicin:

| Bilirubin (mmol/L) | Dose Modification |
|--------------------|--|
| 2 to 35 | 100% |
| 35 to 85 | 50% |
| greater than 85 | Omit DOXOrubicin. Substitute Cyclophosphamide 525 mg/m ² on day 8 |

Note: This adjustment is only necessary for the initial treatment. After the hyperbilirubinemia has resolved adjustment is only necessary if overt jaundice re-occurs. Serum bilirubin does not need to be requested before each treatment.

Hepatotoxicity: For vinBLAStine:

| Bilirubin (micromol/L) | Dose Modification |
|------------------------|-------------------|
| Less than 25 | 100% |
| 25 to 50 | 50% |
| Greater than 50 | 25%. |

Hepatotoxicity: For vinCRIStine:

| Bilirubin (micromol/L) | Dose Modification |
|--------------------------|-------------------|
| Less than or equal to 25 | 100% |
| 26 to 50 | 50% |
| Greater than 50 | 25%. |

4. **Cardiotoxicity**: DOXOrubicin only:

When DOXOrubicin cannot be used due to proven cardiac dysfunction, each dose of DOXOrubicin can be replaced by etoposide 35 mg/m² IV on day 8 (Use non-DEHP equipment with 0.2 micron in-line filter), 70 mg/m² PO on days 9 and 10.

NOTE: When doxorubicin is replaced with etoposide, administer etoposide IV in place of doxorubicin (follow same sequence).

PRECAUTIONS:

 Bleomycin: may cause severe and life threatening pulmonary toxicity. Limiting the total dose to 270 units should decrease the risk but clinical assessment before each cycle must include a careful survey of respiratory symptoms, chest auscultation, and chest radiograph for pulmonary toxicity. Pulmonary function tests should be repeated in suspect cases. Febrile reaction can be prevented by

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hydrocortisone premedication. Oxygen may precipitate or aggravate bleomycin pulmonary toxicity. The FI O₂ must not exceed 30-40% unless absolutely necessary. The anesthesiologist must be aware of the bleomycin history before any surgery: an alert bracelet is recommended.

- 2. Neutropenia: fever or other evidence of infection must be assessed promptly and treated aggressively.
- 3. 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 Cancer Drug Manual). Work-up may include an assessment of cardiac ejection fraction, and cardiac oncology referral if necessary.
- 4. **Extravasation**: DOXOrubicin, vinCRIStine and vinBLAStine cause pain and tissue necrosis if extravasated. Refer to BC Cancer Extravasation Guidelines.
- 5. **Hypersensitivity:** If applicable, monitor etoposide infusion for the first 15 minutes for signs of hypotension. Refer to BC Cancer Hypersensitivity Guidelines.
- 6. Hepatitis B Reactivation: See <u>SCHBV protocol</u> for more details.

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

Reference

Klimo PK, Connors JM. The MOPP/ABV Hybrid program: Combination chemotherapy based upon early introduction of seven effective drugs for advanced Hodgkin's disease. J Clin Oncol 1985;3:1174-82.

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