

## Brentuximab vedotin Monotherapy

### INDICATIONS FOR USE:

| INDICATION   | ICD10 | Regimen Code | Reimbursement Status |
|--|-------|--------------|----------------------|
| Treatment of adult patients with relapsed or refractory CD30+ Hodgkin lymphoma (HL):<br>Following autologous stem cell transplant (ASCT)<br>or<br>Following at least two prior therapies when ASCT or multi-agent chemotherapy is not a treatment option | C81   | 00234a       | ODMS<br>Aug 2014     |
|  |       | 00234b       | ODMS<br>Aug 2014     |
| Treatment of adult patients with relapsed or refractory systemic anaplastic large cell lymphoma (sALCL).   | C84   | 00234c       | ODMS<br>Aug 2014     |
| Treatment of adult patients with CD30+ cutaneous T-cell lymphoma (CTCL) after at least 1 prior systemic therapy.   | C84   | 00234d       | ODMS<br>Dec 2022     |
| Treatment of adult patients with CD30+ Hodgkins Lymphoma (HL) at increased risk of relapse or progression following an autologous haematopoietic stem cell transplant (ASCT).  | C81   | 00234e       | ODMS<br>Dec 2022     |

### TREATMENT:

*The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.*

Treatment is administered once every **21 days** for up to a maximum of 16 cycles.

- **For patients with relapsed/refractory HL or sALCL**, treatment should be evaluated after 3 cycles and non-responders should not continue with brentuximab vedotin treatment.
- **For patients with HL at increased risk of relapse or progression**, treatment should start following recovery from ASCT based on clinical judgement

Facilities to treat anaphylaxis **MUST** be present when the chemotherapy is administered.

| Day  | Drug                | Dose     | Route       | Diluent and Rate                 | Cycle                |
|--|---------------------|----------|-------------|----------------------------------|----------------------|
| 1  | Brentuximab vedotin | 1.8mg/kg | IV infusion | 150ml 0.9% NaCl over 30 minutes. | Repeat every 21 days |
| For patient weight > 100kg, the dose calculation should use 100kg.                                     |                     |          |             |                                  |                      |
| Final concentration of brentuximab should be 0.4-1.2mg/ml.   |                     |          |             |                                  |                      |
| Patient should be carefully monitored during and after infusion in case of infusion related reactions. |                     |          |             |                                  |                      |
| Dextrose 5% or Lactated Ringer's for Injection may also be used as diluent.                            |                     |          |             |                                  |                      |

|  |   |                   |
|--|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy      | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234 | ISMO Contributor: Dr Deirdre O'Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 1 of 7       |

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE's terms of use available at <http://www.hse.ie/eng/Disclaimer>

*This information is valid only on the day of printing, for any updates please check [www.hse.ie/NCCPchemoregimens](http://www.hse.ie/NCCPchemoregimens)*

## ELIGIBILITY:

- Indications as above
- Confirmation of lymphomatous CD30 expression using a validated test method.
- **Relapsed or refractory HL, sALCL and CTCL indications**
  - ECOG 0-2
- **HL at increased risk of relapse or progression**
  - ECOG 0-1
  - At least one of the following risk factors for progression after ASCT:
    - HL that was refractory to frontline treatment
    - Relapsed or progressive HL that occurred <12 months from the end of frontline treatment
    - Extranodal involvement at time of pre-ASCT relapse, including extranodal extension of nodal masses into adjacent vital organs.
  - Complete remission, partial remission, or stable disease after pre-transplantation salvage chemotherapy
  - May have undergone more than one previous ASCT

## EXCLUSIONS:

- Hypersensitivity to brentuximab or to any of the excipients.
- Combined use of bleomycin and brentuximab vedotin is contraindicated due to pulmonary toxicity.
- Pregnancy
- Breastfeeding
- **HL at increased risk of relapse or progression**
  - Progression on previous treatment with brentuximab vedotin
  - Patients who previously received an allogeneic transplant

## PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist or Consultant Haematologist working in the area of haematological malignancies.

## TESTS:

### Baseline tests:

- FBC, renal and liver profile, blood glucose
  - Assessment of pre-existing neuropathy.
  - Virology screen-Hepatitis B (HBsAg, HBcoreAb), Hepatitis C, HIV.
- \*Hepatitis B reactivation: See adverse events/ Regimen specific complications

### Regular tests:

- FBC, renal and liver profile, blood glucose prior to each cycle
- Clinical assessment to exclude neuropathy

|  |   |                   |
|--|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy      | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234 | ISMO Contributor: Dr Deirdre O'Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 2 of 7       |

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE's terms of use available at <http://www.hse.ie/eng/Disclaimer>

*This information is valid only on the day of printing, for any updates please check [www.hse.ie/NCCPchemoregimens](http://www.hse.ie/NCCPchemoregimens)*

**Disease monitoring:**

Disease monitoring should be in line with the patient’s treatment plan and any other test/s as directed by the supervising Consultant.

**DOSE MODIFICATIONS:**

- Any dose modification should be discussed with a Consultant

**Haematological:**

**Table 1: Dose modification based on haematological adverse reactions.**

| ANC (x10 <sup>9</sup> /L) | Dose   |
|---------------------------|--|
| ≥1.0                      | 100% Dose  |
| <1.0                      | Withhold dose until toxicity returns to ≤ Grade 2 or baseline then resume treatment at the same dose and schedule*. Consider growth factor support (G-CSF or GM-CSF) in subsequent cycles for patients who develop Grade 3 or 4 neutropenia. |

\*Patients who develop Grade 3 or Grade 4 lymphopenia may continue treatment without interruption.

**Renal and Hepatic Impairment:**

**Table 2: Dose modification in renal and hepatic impairment**

| Renal Impairment   | Hepatic Impairment  |
|--|---|
| The recommended starting dose in patients with severe renal impairment is 1.2 mg/kg administered as an IV infusion over 30 minutes every 3 weeks. Patients with renal impairment should be closely monitored for adverse events. | The recommended starting dose in patients with hepatic impairment is 1.2 mg/kg administered as an IV infusion over 30 minutes every 3 weeks. Patients with hepatic impairment should be closely monitored for adverse events. |

**Table 3: Dose modification schedule based on adverse events**

| Adverse reactions                     | Recommended dose modification  |
|---------------------------------------|--|
| Peripheral neuropathy<br>Grade 2 or 3 | Withhold dose until toxicity returns to ≤ Grade 1 or baseline, then restart treatment at a reduced dose of 1.2 mg/kg up to a maximum of 120mg every 3 weeks. |
| Grade 4                               | Discontinue  |
| *PML                                  | Discontinue  |
| Stevens-Johnson syndrome              | Discontinue  |

\* PML= Progressive multifocal leukoencephalopathy

|  |   |                   |
|--|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy      | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234 | ISMO Contributor: Dr Deirdre O’Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 3 of 7       |

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE’s terms of use available at <http://www.hse.ie/eng/Disclaimer>

*This information is valid only on the day of printing, for any updates please check [www.hse.ie/NCCPchemoregimens](http://www.hse.ie/NCCPchemoregimens)*

## SUPPORTIVE CARE:

**EMETOGENIC POTENTIAL:** Low (Refer to local policy).

### PREMEDICATIONS:

- Patients who have experienced a prior infusion-related reaction with brentuximab should be pre-medicated with analgesics, antihistamines and corticosteroids for subsequent infusions.

### OTHER SUPPORTIVE CARE:

- Patients receiving brentuximab vedotin who are eligible for allogeneic transplantation should receive irradiated blood products.
- Proton pump inhibitor (Refer to local policy).
- Tumour Lysis Syndrome prophylaxis (Refer to local policy).
- PJP prophylaxis (Refer to local policy)
- Anti-fungal prophylaxis (Refer to local policy).
- Anti-viral prophylaxis (Refer to local policy).

## ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

*This medicinal product is subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions.*

*The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.*

- **Hepatitis B Reactivation:** Hepatitis B Reactivation: Patients should be tested for both HBsAg and HBcoreAb as per local policy. If either test is positive, such patients should be treated with anti-viral therapy. (Refer to local infectious disease policy). These patients should be considered for assessment by hepatology.
- **Progressive multifocal leukoencephalopathy (PML):** John Cunningham virus (JCV) reactivation resulting in PML and death can occur in brentuximab vedotin-treated patients. Patients should be closely monitored for new or worsening neurological, cognitive, or behavioural signs or symptoms, which may be suggestive of PML. Brentuximab vedotin dosing should be held for any suspected case of PML. If a diagnosis of PML is confirmed treatment with brentuximab vedotin should be permanently discontinued.
- **Pancreatitis:** Acute pancreatitis has been observed in patients treated with brentuximab vedotin. Fatal outcomes have been reported. Patients should be closely monitored for new or worsening abdominal pain, which may be suggestive of acute pancreatitis. Patient evaluation may include physical examination, laboratory evaluation for serum amylase and serum lipase, and abdominal imaging, such as ultrasound and other appropriate diagnostic measures. Brentuximab vedotin should be held for any suspected case of acute pancreatitis. Brentuximab vedotin should be discontinued if a diagnosis of acute pancreatitis is confirmed.
- **Pulmonary Toxicity:** Cases of pulmonary toxicity, including pneumonitis, interstitial lung disease, and acute respiratory distress syndrome (ARDS), some with fatal outcomes, have been reported in patients receiving brentuximab vedotin. Although a causal association with brentuximab vedotin has not been established, the risk of pulmonary toxicity cannot be ruled out. In the event of new or worsening pulmonary symptoms (e.g., cough, dyspnoea), a prompt diagnostic

|  |   |                   |
|--|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy      | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234 | ISMO Contributor: Dr Deirdre O'Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 4 of 7       |

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE's terms of use available at <http://www.hse.ie/eng/Disclaimer>

*This information is valid only on the day of printing, for any updates please check [www.hse.ie/NCCPchemoregimens](http://www.hse.ie/NCCPchemoregimens)*

evaluation should be performed and patients should be treated appropriately. Consider holding brentuximab vedotin dosing during evaluation and until symptomatic improvement.

- **Serious infections and opportunistic infections:** Patients should be carefully monitored during treatment for the emergence of possible serious and opportunistic infections.
- **Infusion-related reactions:** Immediate and delayed infusion-related reactions (IRR), as well as anaphylactic reactions, have been reported. Patients should be carefully monitored during and after infusion. If an anaphylactic reaction occurs, administration of brentuximab vedotin should be immediately and permanently discontinued and appropriate medical therapy should be administered.
- **Tumour lysis syndrome:** Patients with rapidly proliferating tumour and high tumour burden are at risk of tumour lysis syndrome. These patients should be monitored closely and managed according to best medical practice.
- **Peripheral neuropathy:** Brentuximab vedotin treatment may cause a peripheral neuropathy that is predominantly sensory. Cases of peripheral motor neuropathy have also been reported. Brentuximab vedotin-induced peripheral neuropathy is typically an effect of cumulative exposure to this medicinal product and is reversible in most cases. Patients experiencing new or worsening peripheral neuropathy may require a delay and a dose reduction of brentuximab vedotin or discontinuation of treatment.
- **Febrile neutropenia:** Fever or other evidence of infection must be assessed promptly and treated aggressively.
- **Stevens-Johnson syndrome:** If this occurs treatment with brentuximab vedotin should be discontinued and appropriate medical therapy administered.
- **Gastrointestinal Complications:** Gastrointestinal (GI) complications including intestinal obstruction, ileus, enterocolitis, neutropenic colitis, erosion, ulcer, perforation and haemorrhage, some with fatal outcomes, have been reported in patients treated with brentuximab vedotin. In the event of new or worsening GI symptoms, perform a prompt diagnostic evaluation and treat appropriately.
- **Hyperglycaemia:** Hyperglycaemia has been reported during clinical trials in patients with an elevated Body Mass Index (BMI) with or without a history of diabetes mellitus. Any patient who experiences hyperglycaemia should have their serum glucose closely monitored. Anti-diabetic treatment should be administered as appropriate.
- **Sodium content in excipients:** This medicinal product contains a maximum of 2.1mmol of sodium per dose, which needs to be taken into consideration for patients on a controlled sodium diet.

## DRUG INTERACTIONS:

- Current drug interaction databases should be consulted for more information.

|  |   |                   |
|--|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy      | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234 | ISMO Contributor: Dr Deirdre O'Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 5 of 7       |

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE's terms of use available at <http://www.hse.ie/eng/Disclaimer>

*This information is valid only on the day of printing, for any updates please check [www.hse.ie/NCCPchemoregimens](http://www.hse.ie/NCCPchemoregimens)*

## REFERENCES:

1. Pro B, Advani R, Brice P et al. Brentuximab Vedotin (SGN-35) in Patients With Relapsed or Refractory Systemic Anaplastic Large-Cell Lymphoma: Results of a Phase II Study. *J Clin Oncol.* (2012); 30 (18): 2190-2196.
2. Younes A, Bartlett NL, Leonard JP, et al. Brentuximab vedotin (SGN-35) for relapsed CD30-positive lymphomas. *N Engl J Med.* 2010; 363(19):1812-1821.
3. Younes A, Gopal A, Smith S et al. Results of a Pivotal Phase II Study of Brentuximab Vedotin for Patients With Relapsed or Refractory Hodgkin's Lymphoma. *J Clin Oncol* (2012): 30 (18): 2183-2189.
4. Prince HM, et al. Brentuximab vedotin or physicians choice in CD30- positive cutaneous T-cell lymphoma (ALCANZA): an international, open-label, randomised, phase 3, multicentre trial. *Lancet* 2017; 390: 555–66. Available at <https://pubmed.ncbi.nlm.nih.gov/28600132/>
5. Moskowitz CH et al. AETHERA Study Group. Brentuximab vedotin as consolidation therapy after autologous stem-cell transplantation in patients with Hodgkin's lymphoma at risk of relapse or progression (AETHERA): a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet.* 2015 May 9; 385(9980):1853-62. doi: 10.1016/S0140-6736(15)60165-9. Epub 2015 Mar 19. Erratum in: *Lancet.* 2015 Aug 8; 386(9993):532. *Lancet.* 2015 Aug 8; 386(9993):532.
6. NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V4 2022 Available at: <https://www.hse.ie/eng/services/list/5/cancer/profinfo/chemoprotocols/nccp-classification-document-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf>
7. ADCETRIS® Summary of Product Characteristics. Accessed December 2022. Available at [http://www.ema.europa.eu/docs/en\\_GB/document\\_library/EPAR\\_-\\_Product\\_Information/human/002455/WC500135055.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Product_Information/human/002455/WC500135055.pdf)

| Version | Date       | Amendment  | Approved By  |
|---------|------------|--|--|
| 1       | 1/11/2014  |  | Dr Deirdre O Mahony<br>Dr Elisabeth Vandenberghe   |
| 2       | 23/06/2016 | Updated Adverse Reactions to include pancreatitis, pulmonary toxicity and gastrointestinal complications   | Dr Elisabeth Vandenberghe                          |
| 3       | 18/10/2018 | Updated with new NCCP regimen template. Updated other supportive care measures and Hepatitis B reactivation information to standardize across NCCP regimens for lymphoma | Dr Deirdre O Mahony<br>Prof Elisabeth Vandenberghe |
| 4       | 14/09/2020 | Updated anti-emetogenic potential. Hepatitis B Reactivation wording updated as agreed by NCCP Lymphoid CAG to standardise across NCCP regimens for lymphoma.             | Dr Deirdre O Mahony<br>Prof Elisabeth Vandenberghe |
| 5       | 20/12/2022 | New indications included. Updated  | Dr. Amjad Hayat                                    |

|  |   |                   |
|--|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy      | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234 | ISMO Contributor: Dr Deirdre O'Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 6 of 7       |

The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE's terms of use available at <http://www.hse.ie/eng/Disclaimer>

*This information is valid only on the day of printing, for any updates please check [www.hse.ie/NCCPchemoregimens](http://www.hse.ie/NCCPchemoregimens)*

|  |  |  |  |
|--|--|--|--|
|  |  | treatment, eligibility, exclusion and dose modifications sections to include details for new indications |  |
|--|--|--|--|

Comments and feedback welcome at [oncologydrugs@cancercontrol.ie](mailto:oncologydrugs@cancercontrol.ie).

|   |   |                   |
|---|---|-------------------|
| NCCP Regimen: Brentuximab vedotin Monotherapy   | Published: 01/11/2014<br>Review: 14/09/2025   | Version number: 5 |
| Tumour Group: Lymphoma<br>NCCP Regimen Code: 00234  | ISMO Contributor: Dr Deirdre O'Mahony<br>IHS Contributor: Prof Elisabeth Vandenberghe,<br>Dr. Amjad Hayat | Page 7 of 7       |
| <p>The information contained in this document is a statement of consensus of NCCP and ISMO or IHS 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 the responsibility of the prescribing clinician, and is subject to HSE's terms of use available at <a href="http://www.hse.ie/eng/Disclaimer">http://www.hse.ie/eng/Disclaimer</a></p> <p><i>This information is valid only on the day of printing, for any updates please check <a href="http://www.hse.ie/NCCPchemoregimens">www.hse.ie/NCCPchemoregimens</a></i></p> |   |                   |