

# Obinutuzumab and Bendamustine Therapy – 28 day cycle

# **INDICATIONS FOR USE:**

|   |       | Regimen | Reimbursement |
|---|-------|---------|---------------|
| INDICATION  | ICD10 | Code    | Indicator     |
| Obinutuzumab in combination with bendamustine is indicated for      | C82   | 00424a  | ODMS          |
| the treatment of patients with follicular lymphoma (FL) who did not |       |         | 01/11/17      |
| respond or who progressed during or up to 6 months after            |       |         |               |
| treatment with rituximab or a rituximab-containing regimen.         |       |         |               |
| Obinutuzumab in combination with bendamustine is indicated for      | C82   | 00424b  | ODMS          |
| the treatment of patients with previously untreated advanced        |       |         | 01/05/19      |
| follicular lymphoma.  |       |         |               |

## 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 consists of 6 x 28 day cycles of obinutuzumab and bendamustine as follows unless disease progression or unacceptable toxicity occurs.
  - Obinutuzumab is administered at a dose of 1000mg on Day 1, 8 and Day 15 of the first 28 day treatment cycle. Bendamustine is administered on Day 1 and Day 2 of each 28 day cycle.
  - For cycles 2-6, obinutuzumab is administered at a dose of 1000mg on Day 1 of every 28 day treatment cycle. Bendamustine is administered on Day 1 and Day 2 of each 28 day cycle.
- First Line: Patients who achieve a complete or partial response to induction treatment with obinutuzumab in combination with bendamustine should continue to receive obinutuzumab 1000 mg as single agent maintenance therapy once every 2 months for 2 years or until disease progression (whichever occurs first) (Reference NCCP Regimen 00425 Obinutuzumab Maintenance Therapy-56 day).
- Second Line: Patients who respond to induction treatment (i.e. the initial 6 treatment cycles) with obinutuzumab in combination with bendamustine or have stable disease should continue to receive obinutuzumab 1000 mg as single agent maintenance therapy once every 2 months for two years or until disease progression (whichever occurs first) (Reference NCCP Regimen 00425 Obinutuzumab Maintenance Therapy-56 day).

Facilities to treat anaphylaxis MUST be present when obinutuzumab is administered.

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# **NCCP** Chemotherapy Regimen

| Order<br>of<br>admin | Day      | Drug                      | Dose                | Route       | Diluent & Rate   | Cycle |
|----------------------|----------|---------------------------|---------------------|-------------|--|-------|
| 1                    | 1        | Obinutuzumab <sup>1</sup> | 1000mg              | IV infusion | 250ml 0.9% NaCl.<br>Administer at 50 mg/hr.<br>The rate of infusion can be<br>escalated in 50 mg/hr<br>increments every 30 minutes to<br>a maximum of 400 mg/hr. | 1     |
| 2                    | 1        | Bendamustine              | 90mg/m <sup>2</sup> | IV infusion | 500ml 0.9% NaCl over 1 hour  | 1     |
| 1                    | 2        | Bendamustine              | 90mg/m <sup>2</sup> | IV infusion | 500ml 0.9% NaCl over 1 hour  | 1     |
| 1                    | 8 and 15 | Obinutuzumab <sup>1</sup> | 1000mg              | IV infusion | 250ml 0.9% NaCl <sup>2</sup>   | 1     |
| 1                    | 1        | Obinutuzumab <sup>1</sup> | 1000mg              | IV infusion | 250ml 0.9% NaCl <sup>2</sup>   | 2-6   |
| 2                    | 1 and 2  | Bendamustine              | 90mg/m <sup>2</sup> | IV infusion | 500ml 0.9% NaCl over 1 hour  | 2-6   |

<sup>1</sup>If a planned dose of obinutuzumab is missed, it should be administered as soon as possible; do not wait until the next planned dose. The planned treatment interval for obinutuzumab should be maintained between doses.

<sup>2</sup>If no infusion related reaction occurred during the prior infusion when the final infusion rate was 100 mg/hr or faster, infusions can be started at a rate of 100 mg/hr and increased by 100 mg/hr increments every 30 minutes to a maximum of 400 mg/hr.

If the patient experienced an IRR of Grade 2 or higher during the previous infusion administer at 50 mg/hr. The rate of infusion can be escalated in 50 mg/hr increments every 30 minutes to a maximum of 400 mg/hr.

# ELIGIBILITY:

#### 1L treatment

- Previously untreated, CD20-positive follicular lymphoma (grade 1 to 3a) with advanced disease (stage III or IV, or stage II with bulk disease [tumour of ≥7 cm in the greatest dimension])
- ECOG status 0-2
- Adequate haematological, renal and liver status

#### 2L treatment

- CD20-positive indolent non-Hodgkin lymphoma refractory to riTUXimab as outlined above
- ECOG 0-2 (ECOG 3 at the discretion of the treating clinician)
- Adequate haematological, renal and liver status

#### **EXCLUSIONS:**

• Hypersensitivity to obinutuzumab, bendamustine or to any of the excipients.

# **PRESCRIPTIVE AUTHORITY:**

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

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# **TESTS:**

#### **Baseline tests:**

- FBC, renal and liver profile
- LDH, Uric acid
- ECG (+/- echocardiogram as clinically indicated)
- Virology screen Hepatitis B (HBsAg, HBcoreAb), Hepatitis C, HIV \*See Adverse Effects/Regimen Specific Complications re Hepatitis B Reactivation

#### **Regular tests**:

- FBC, renal and liver profile, LDH monthly
- ECG as clinically indicated

#### **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.
- No dose reductions of obinutuzumab are recommended.
- A dose delay of up to 4 weeks is permitted for obinutuzumab and bendamustine to allow recovery of haematologic toxicities to ≤ grade 2 or non-haematologic toxicities to grade 1 or baseline level.
- If the toxicity resolves within the 4-week period, dosing should resume, but the bendamustine dose reduces to 60 mg/m<sup>2</sup> per day for subsequent cycles depending on the number of previous episodes of that toxicity.
- If toxicity does not resolve, treatment should be discontinued.
- No dose adjustment is required in elderly patients.

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#### **Renal and Hepatic Impairment:**

#### Table 1: Dose modification in renal and hepatic impairment

| Drug         | Renal Impairment |                     | Hepatic Impairmer                 | nt                          |
|--------------|------------------|---------------------|-----------------------------------|-----------------------------|
| Obinutuzumab | CrCl (ml/min)    | Dose                | Safety and efficacy               | not established in patients |
|              | 30-89            | 100%                | with impaired hepa                | atic function. No specific  |
|              | <30              | Safety and efficacy | dose recommendations can be made. |                             |
|              |                  | not established     |                                   |                             |
| Bendamustine | CrCl (ml/min)    | Dose                | Serum bilirubin                   | Dose                        |
|              |                  |                     | (micromol/L)                      |                             |
|              | >10              | No dose adjustment  | < 21                              | No dose adjustment          |
|              |                  | necessary           |                                   | necessary                   |
|              | Experience in pa | atients with severe | 21-51                             | 30% dose reduction          |
|              | renal impairme   | nt is limited.      | >51                               | No data available           |
|              |                  |                     |                                   |                             |

#### Table 2: Dose modification schedule based on adverse events

| Adverse reactions                      | Recommended dose modification   |
|--|---|
| Infusion Related Reactions (IRR)       |   |
| Grade 1-2                              | Reduce infusion rate. Treat symptoms.   |
| Symptom Resolution                     | Infusion can be continued upon resolution of symptoms and<br>if patient does not experience any IRR symptoms, the<br>infusion rate escalation can resume at the increments and<br>intervals as appropriate for the treatment dose.                                      |
| Grade 3                                |   |
| First occurrence                       | Temporarily stop the infusion. Treat the symptoms.  |
| <ul> <li>Symptom Resolution</li> </ul> | Upon resolution of symptoms restart infusion at no more<br>than half the previous rate and, if the patient does not<br>experience any IRR symptoms the infusion rate escalation can<br>resume at the increments and intervals as appropriate for the<br>treatment dose. |
| Second occurrence                      | Stop infusion and discontinue treatment   |
| Grade 4                                | Stop infusion and discontinue treatment   |
| PML                                    | Discontinue treatment   |
| Hypersensitivity reaction              | Discontinue treatment   |

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# SUPPORTIVE CARE:

#### **EMETOGENIC POTENTIAL:**

Obinutuzumab: Minimal (Refer to local policy) Bendamustine: Moderate (Refer to local policy)

#### **PREMEDICATIONS:**

Table 3 describes the recommended premedication to be administered before obinutuzumab infusion to reduce the risk of infusion related reactions (IRRs).

| Day of treatment cycle      | Patients requiring premedication   | Premedication   | Administration   |
|-----------------------------|--|---|--|
| Cycle 1:<br>Day 1           | All patients   | Intravenous<br>corticosteroid <sup>1</sup><br>(recommended)<br>Oral anti-pyretic <sup>2</sup> | Completed at least 1 hour<br>prior to obinutuzumab<br>infusion |
|                             |  | Anti-histamine <sup>3</sup>   | At least 30 minutes before obinutuzumab infusion               |
|                             | Patients with no IRR during the previous infusion  | Oral anti-pyretic <sup>2</sup>  | At least 30 minutes before                                     |
| All subsequent<br>infusions | Patients with an IRR (Grade 1<br>or 2) with the previous<br>infusion                     | Oral anti-pyretic <sup>2</sup><br>Anti-histamine <sup>3</sup>                                 | obinutuzumab infusion  |
|                             | Patients with a Grade 3 IRR<br>with the previous infusion OR<br>Patients with lymphocyte | Intravenous<br>corticosteroid <sup>1</sup>  | Completed at least 1 hour prior to obinutuzumab infusion       |
|                             | counts >25 x 10 <sup>9</sup> /L prior to<br>next treatment                               | Oral anti-pyretic <sup>2</sup><br>Anti-histamine <sup>3</sup>                                 | At least 30 minutes before obinutuzumab infusion               |

Table 3: Premedication to be administered before obinutuzumab infusion to reduce the risk of IRRs

<sup>1</sup>100 mg prednisone/prednisolone or 20 mg dexamethasone or 80 mg methylprednisolone

Hydrocortisone should <u>not</u> be used as it has not been effective in reducing rates of IRR.

<sup>2</sup>e.g. 1000mg paracetamol

<sup>3</sup>e.g. 10mg chlorphenamine

#### **OTHER SUPPORTIVE CARE:**

- Tumour lysis syndrome prophylaxis (Refer to local policy)
- PJP prophylaxis (Refer to local policy)
- Proton pump inhibitor (Refer to local policy)
- Anti-viral prophylaxis (Refer to local policy)
- Anti-fungal prophylaxis (Refer to local policy)
- Mouth care (Refer to local policy)

Note: All patients who receive bendamustine should receive irradiated blood products throughout their chemotherapy and for life.

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# ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

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

#### Obinutuzumab

- Infusion Related Reactions: Most reactions are mild or moderate and are further reduced by slowing or temporarily stopping the infusion. Risks for IRRs include high tumour burden, renal impairment and Cumulative Illness Rating Scale (CIRS) >6. If the patient experiences an IRR, the infusion should be managed according to the grade of the reaction (see Table 2).
- **Hypotension:** As a symptom of IRRs, hypotension may occur during obinutuzumab intravenous infusions. Therefore, withholding of antihypertensive treatments should be considered for 12 hours prior to and throughout each obinutuzumab infusion and for the first hour after administration.
- **Tumour lysis syndrome**: There is an increased risk with high tumour burden and/or a high circulating lymphocyte count (>25x10<sup>9</sup>/L) and/or renal impairment (CrCl < 70ml/min).
- Neutropenia: Severe and life threatening neutropenia including febrile neutropenia has been reported during treatment with obinutuzumab. Consider G-CSF, if severe and associated with infection; consider anti-microbial prophylaxis if severe and prolonged (>1 week), including anti-viral and anti-fungal prophylaxis. Cases of late onset neutropenia (occurring 28 days after the end of treatment) or prolonged neutropenia (lasting more than 28 days after treatment has been completed/stopped) have also been reported. Patients with renal impairment (CrCl < 50 mL/min) are more at risk of neutropenia.</li>
- Thrombocytopenia: This can be severe and life-threatening, including acute onset within 24 hours post infusion; monitor closely and treat bleeding according to local policy. Renal impairment increases risk of thrombocytopenia. Dose delays may be required. Use of all concomitant therapies that could possibly worsen thrombocytopenia-related events, such as platelet inhibitors and anticoagulants, should also be taken into consideration, especially during the first cycle. Patients with renal impairment (CrCl < 50 mL/min) are more at risk of thrombocytopenia.</li>
- Worsening of pre-existing cardiac conditions: Atrial fibrillation, angina, acute coronary syndrome, myocardial infarction, hypertension and heart failure can occur in patients with underlying cardiac disease. Monitor closely and hydrate cautiously to prevent fluid overload.
- Infections: Do not administer if active infection; fatal infections may occur. Caution should be exercised when considering the use of obinutuzumab in patients with a history of recurring or chronic infections. Risk is increased if CIRS > 6 or renal impairment present.
- **Progressive multifocal leucoencephalopathy (PML)**: New or worsening neurological, cognitive or behavioural symptoms or signs due to PML have occurred with obinutuzumab.
- 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.

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#### Bendamustine

- Skin reactions: A number of skin reactions have been reported with bendamustine therapy. These events have included rash, toxic skin reactions and bullous exanthema. Where skin reactions occur, they may be progressive and increase in severity with further treatment. If skin reactions are progressive, bendamustine should be withheld or discontinued. For severe skin reactions where a relationship to bendamustine hydrochloride is suspected, treatment should be discontinued.
  - Non-melanoma skin cancers: In clinical studies, an increased risk for non-melanoma skin cancers (basal cell carcinoma and squamous cell carcinoma) has been observed in patients treated with bendamustinecontaining therapies. Periodic skin examination is recommended for all patients, particularly those with risk factors for skin cancer.
  - Progressive multifocal encephalopathy (PML): Cases of progressive multifocal leukoencephalopathy (PML) including fatal ones have been reported following the use of bendamustine mainly in combination with rituximab or obinutuzumab. Consider PML in the differential diagnosis in patients with new or worsening neurological, cognitive or behavioural signs or symptoms. If PML is suspected, then appropriate diagnostic evaluations should be undertaken and treatment suspended until PML is excluded.

# Refer to NCCP Regimen 00346 riTUXimab and Bendamustine Therapy for further information on adverse reactions / Regimen Specific Complications for Bendamustine.

## **DRUG INTERACTIONS:**

- No interaction studies have been performed with obinutuzumab.
- Vaccinations with live organism vaccines are not recommended.
- Bendamustine metabolism involves cytochrome P450 (CYP) 1A2 isoenzyme, Therefore, the potential for interaction with CYP1A2 inhibitors such as fluvoxamine, ciprofloxacin, acyclovir and cimetidine exists.
- Current drug interaction databases should be consulted for more information.

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- NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V4 2022. Available at: <u>https://www.hse.ie/eng/services/list/5/cancer/profinfo/chemoprotocols/nccp-classification-</u> document-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf
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| Version | Date       | Amendment   | Approved By                 |
|---------|------------|---|-----------------------------|
| 1       | 10/10/2017 |   | Prof Elisabeth Vandenberghe |
| 2       | 26/04/2019 | Updated to include indication in first line<br>therapy. Updated information on IRR<br>infusion rate escalation management as<br>per SmPC update   | Dr Brian Bird               |
| 3       | 27/06/2022 | Reviewed. Amended treatment table<br>(Bendamustine diluent volume).<br>Amended footnotes. Added to eligibility<br>criteria (2L treatment). Added to<br>supportive care. Updated adverse<br>effects (Hepatitis B reactivation, non-<br>melanoma skin cancers and PML). | Prof Elisabeth Vandenberghe |

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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