

# Obinutuzumab, cycloPHOSphamide, DOXOrubicin, vinCRIStine and prednisoLONE (O-CHOP) Therapy – 21 day

# **INDICATIONS FOR USE:**

| INDICATION  | ICD10 | Regimen<br>Code | HSE<br>reimbursement<br>status*  |
|---|-------|-----------------|--|
| Obinutuzumab in combination with CHOP chemotherapy is indicated<br>for the treatment of patients with previously untreated advanced<br>follicular lymphoma. | C82   | 00549a          | Obinutuzumab –<br>ODMS 01/05/19<br>CycloPHOSphamide,<br>DOXOrubicin and<br>vinCRIStine – N/A |

\*For post 2012 indications only

# 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 every 21 days as detailed below or until disease progression or unacceptable toxicity develops
  - Cycles 1-6 consist of obinutuzumab in combination with CHOP
  - Cycles 7-8 consist of obinutuzumab alone
- Obinutuzumab is administered at a dose of 1000mg on Day 1, 8 and Day 15 of the first 21 day treatment cycle. This is given in combination with CHOP on day 1.
- For cycles 2-8 obinutuzumab is administered at a dose of 1000mg on day one of each 21 day treatment cycle.
- Patients who respond to induction treatment 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 Protocol 00425 Obinutuzumab Maintenance Therapy-56 day)

Facilities to treat anaphylaxis MUST be present when systemic anti-cancer therapy (SACT) is administered.

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### **Treatment cycles 1-6**

| Day  | Drug   | Dose  | Route                           | Diluent & Rate   | Cycle |
|--|--|---|---------------------------------|--|-------|
| 1  | Obinutuzumab <sup>a,b</sup>  | 1000mg  | IV infusion                     | 250mL 0.9% NaCl<br>Administer at 50 mg/hour.<br>The rate of infusion can be escalated in 50 mg/hour<br>increments every 30 minutes to a maximum of 400<br>mg/hour.                                   | 1     |
| 1  | DOXOrubicin <sup>c</sup>   | 50mg/m <sup>2</sup>   | IV Bolus                        | Into the side arm of a fast running 0.9% NaCl infusion   | 1-6   |
| 1  | vinCRIStine <sup>d</sup>   | 1.4mg/m <sup>2</sup><br>(Max 2mg)                                   | IV infusion                     | 50mL minibag 0.9% NaCl over 15 minutes   | 1-6   |
| 1  | cycloPHOSphamide <sup>e</sup>  | 750mg/m <sup>2</sup>  | IV infusion                     | 250 mL 0.9% NaCl over 30 minutes   | 1-6   |
| 1,2,3,4,<br>5  | prednisoLONE   | <sup>f</sup> 100mg  | РО                              |  | 1-6   |
| 8 and<br>15  | Obinutuzumab <sup>a,b</sup>  | 1000mg  | IV infusion                     | 250mL 0.9% NaCl at a maximum rate of <sup>g,h</sup> 400mg/hour   | 1     |
| 1  | Obinutuzumab <sup>a,b</sup>  | 1000mg  | IV infusion                     | 250mL 0.9% NaCl at a maximum rate of <sup>g, h</sup><br>400mg/hour   | 2-6   |
| interval for<br><sup>b</sup> Obinutuz<br><sup>c</sup> Lifetime c | r obinutuzumab should be ma<br>umab infusions should NOT be<br>umulative dose of DOXOrubic | intained between<br>e administered as<br>in is 450mg/m <sup>2</sup> | doses.<br>an intravenous push o | n as possible; do not wait until the next planned dose. The planned tre<br>or bolus.<br>n should be given to the risk factors below <sup>i</sup> and to the age of the pati                          |       |
|  | e is a neurotoxic chemothera<br>CCP Guidance on the Safe Use                               |   | ugs (including Vinca            | Alkaloids) in the treatment of cancer. <u>Here</u>   |       |
| <sup>e</sup> CycloPHO  | Sphamide may also be admini  | stered as an IV bo  | lus over 5-10 minutes           |  |       |
| fAlternativ  | e steroid regimens may be use  | ed at consultant di   | scretion.                       |  |       |
| be started   | at a rate of 100 mg/hour and   | increased by 100 i  | ng/hour increments e            | ior infusion when the final infusion rate was 100 mg/hour or faster, inf<br>every 30 minutes to a maximum of 400 mg/hour.<br>sion administer at 50 mg/hour. The rate of infusion can be escalated ir |       |

mg/hour increments every 30 minutes to a maximum of 400 mg/hour.

Note: Administration volumes and fluids have been standardised to facilitate electronic prescribing system builds.

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### Treatment cycles 7 and 8

| Day                  | Drug   | Dose            | Route of Administration  | Diluent & Rate  | Cycle            |
|----------------------|--|-----------------|--|---|------------------|
| 1                    | Obinutuzumab <sup>a,b</sup>                              | 1000mg          | IV infusion  | 250mL 0.9% NaCL at a maximum rate of 400mg/hour <sup>c,d</sup>                        | 7-8              |
|                      | nned dose of obinutuzuma<br>for obinutuzumab should k    | -               | • •  | o not wait until the next planned dose. The planned                                   | treatment        |
| <sup>b</sup> Obinuti | uzumab infusions should N                                | IOT be administ | tered as an intravenous push or bolus.   |   |                  |
|                      |  |                 | ade 1 occurred during the prior infusion wh<br>100 mg/hour increments every 30 minutes | en the final infusion rate was 100 mg/hour or faster,<br>to a maximum of 400 mg/hour. | infusions can be |
|                      | atient experienced an IRR<br>nts every 30 minutes to a r |                 |  | r at 50 mg/hour. The rate of infusion can be escalate                                 | ed in 50 mg/hour |

Note: Administration volumes and fluids have been standardised to facilitate electronic prescribing system builds.

# **ELIGIBILITY:**

- Indications as above
- 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

# **EXCLUSIONS:**

- Hypersensitivity to obinutuzumab, cycloPHOSphamide, DOXOrubicin, vinCRIStine, prednisoLONE or to any of the excipients
- LVEF <50% (MUGA or echocardiogram)
- A cumulative life-long dose of 450mg/m<sup>2</sup> of DOXOrubicin should only be exceeded with extreme caution as there is as risk of irreversible congestive heart failure
- Pregnancy or lactation

# **PRESCRIPTIVE AUTHORITY:**

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

### **TESTS:**

**Baseline tests:** 

- FBC, renal and liver profile
- LDH, Uric acid
- ECG
- MUGA, ECHO (LVEF > 50% to administer DOXOrubicin) if >65 years or dynamic cardiac monitoring (e.g. BNP) if clinically indicated
- Virology screen Hepatitis B (HBsAg, HBcoreAb), C & HIV\*

\* See Regimen Specific Complications re Hepatitis B Reactivation

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### **Regular tests**:

- FBC, renal and liver profile and LDH prior to each cycle
- Evaluate for peripheral neuropathy prior to each cycle
- ECG as clinically indicated
- MUGA, ECHO or / dynamic cardiac monitoring (e.g. BNP) as clinically indicated (DOXOrubicin)

### 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
- Consider vinCRIStine dose reduction in elderly patients

#### Haematological:

### Table 1: Recommended dose modification for CHOP haematological toxicity

| ANC ( x 10 <sup>9</sup> /L) |        | Platelets( x 10 <sup>9</sup> /L) | Dose                                       |
|-----------------------------|--------|----------------------------------|--|
| <1                          | and/or | <75                              | Dose modification not generally indicated. |
|                             |        |                                  | Consider treatment delay and/or add G-CSF. |

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

# Table 2: Recommended dose modifications in patients with renal or hepatic impairment

|                            | ent is needed.<br>Io need for dose<br>pected.<br><b>Dose</b><br>No dose adjustme<br>needed<br>Consider 75% of th<br>original dose<br>Not recommended<br>unavoidable consi<br>50% of the origina<br>dose<br>Not recommended<br>unavoidable consi<br>50% of the origina<br>dose | Mild a<br>nt is adjust<br>sever<br>ne reduc<br>d, if<br>der<br>l<br>d, if<br>der | and moderate: N<br>tment is expecte                       |  |
|----------------------------|---|--|---|--|
| 30<br>-29<br>0             | No dose adjustme<br>needed<br>Consider 75% of th<br>original dose<br>Not recommended<br>unavoidable consi<br>50% of the origina<br>dose<br>Not recommended<br>unavoidable consi<br>50% of the origina   | nt is adjust<br>Sever<br>reduc<br>d, if<br>der<br>l<br>d, if<br>der              | tment is expecte  | d.   |
| 0                          | needed<br>Consider 75% of th<br>original dose<br>Not recommended<br>unavoidable consi<br>50% of the original<br>dose<br>Not recommended<br>unavoidable consi<br>50% of the original   | Sever<br>reduc<br>d, if<br>der<br>l<br>d, if<br>der                              | e: Not recomme  |  |
| 0                          | original dose<br>Not recommended<br>unavoidable consi<br>50% of the origina<br>dose<br>Not recommended<br>unavoidable consi<br>50% of the origina   | he reduc<br>d, if<br>der<br>l<br>d, if<br>der                                    |   |  |
|                            | unavoidable consi<br>50% of the origina<br>dose<br>Not recommended<br>unavoidable consi<br>50% of the origina   | der<br>I<br>d, if<br>der   |   |  |
| aemodialysis               | unavoidable consi<br>50% of the origina   | der  |   |  |
|                            |   |  |   |  |
| Cl (mL/min)                | Dose  |  | Bilirubin<br>omol/L)                                      | Dose   |
| 10                         | No dose<br>adjustment is<br>needed  | 20-50  | )   | 50% of the original dose   |
| 10                         | No need for d<br>adjustment is<br>expected  | ose 51-86  | 5   | 25% of the original dose   |
| aemodialysis               | 75% of the ori<br>dose may be<br>considered   | ginal >86 o  | r Child-Pugh C  | Not recommended  |
| o need for dose<br>pected. | e adjustment is   |  |   | Dose   |
|                            |   | >51  |   | 50% of original dose   |
|                            | ected.  | need for dose adjustment is  | need for dose adjustment is Biliru<br>ected. (micr<br>>51 | need for dose adjustment is ected. modialysis: No need for dose Bilirubin (micromol/L) >51 |

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### Management of adverse events:

Table 3: Dose modification schedule of obinutuzumab 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, if the patient does not experience any IRR symptoms, the infusion rate escalation can resume at the increments and intervals as appropriate for the treatment dose.   |
| Grade 3<br>• First occurrence<br>• Symptom resolution | Temporarily stop the infusion. Treat the symptoms.<br>Upon resolution of symptoms, restart infusion at no more than half the<br>previous rate and, if the patient does not experience any IRR symptoms,<br>the infusion rate escalation can resume at the increments and intervals<br>as appropriate for the treatment dose. |
| Second occurrence                                     | Stop infusion and discontinue treatment.   |
| Grade 4   | Stop infusion and discontinue treatment.   |
| PML   | Discontinue treatment  |
| Hypersensitivity reaction                             | Discontinue treatment  |

#### Table 4: Dose modification of vinCRIStine based on neurotoxicity

| Dose of vinCRIStine                         |
|---|
| 100%  |
| Hold until recovery then reduce dose by 50% |
| Omit  |
|   |

\*Common Terminology Criteria for Adverse Events (CTCAE) version 4.0.

# SUPPORTIVE CARE:

### **EMETOGENIC POTENTIAL:**

As outlined in NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting linked <u>here</u>

| Obinutuzumab:                   | Minimal (Refer to local policy) |
|---------------------------------|---------------------------------|
| DOXOrubicin / cycloPHOSphamide: | High (Refer to local policy)    |
| vinCRIStine:                    | Minimal (Refer to local policy) |

• Consider increased risk of vinca alkaloid-induced adverse effects due to inhibition of CYP3A4 by aprepitant.

#### For information:

Within NCIS regimens, antiemetics have been standardised by Medical Oncologists and Haemato-oncologists and information is available in the following documents:

- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Medical Oncology) link here
- NCCP Supportive Care Antiemetic Medicines for Inclusion in NCIS (Haemato-oncology) link here

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### **PRE-MEDICATIONS:**

Table 5 describes the recommended pre-medication to be administered before obinutuzumab infusion to reduce the risk of infusion related reactions (IRRs).

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

<sup>a</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>b</sup> e.g. 1000 mg paracetamol

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

<sup>d</sup> If a corticosteroid-containing chemotherapy regimen is administered on the same day as obinutuzumab, the corticosteroid can be administered as an oral medication if given at least 60 minutes prior to obinutuzumab, in which case additional IV corticosteroid as premedication is not required.

# OTHER SUPPORTIVE CARE:

- G-CSF prophylaxis may be required (Refer to local policy)
- 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 (Avoid the concurrent use of azoles and vinCRIStine) (Refer to local policy)
- Mouth care (Refer to local policy)
- Prophylactic regimen against vinCRIStine-induced constipation is recommended (Refer to local policy)
- Patients should have an increased fluid intake of 2-3 litres on day 1 and 2 to prevent haemorrhagic cystitis associated with cycloPHOSphamide

# **ADVERSE EFFECTS:**

Please refer to the relevant Summary of Product Characteristics (SmPC).

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# **REGIMEN SPECIFIC COMPLICATIONS:**

- 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.
- Tumour lysis syndrome/ IRR's: Consider 5 to 7 days of induction steroids for patients with bulky disease.

# **DRUG INTERACTIONS:**

Consult current drug interaction databases and relevant SmPC.

### **REFERENCES:**

- 1. Marcus R et al. Obinutuzumab for the First-Line Treatment of Follicular Lymphoma. N Engl J Med 2017; 377:1331-44.
- 2. Hiddemann W et al. Immunochemotherapy with Obinutuzumab or Rituximab for Previously Untreated Follicular Lymphoma in the GALLIUM Study: Influence of Chemotherapy on Efficacy and Safety. J Clin Oncol 2018; 36: 2395-2404
- 3. Giraud E L, Lijster B D, et al. Dose recommendations for anticancer drugs in patients with renal or hepatic impairment: an update. Available at: <u>https://pubmed.ncbi.nlm.nih.gov/37269847/</u>
- NCCP Classification Document for Systemic Anti-Cancer Therapy (SACT) Induced Nausea and Vomiting. V5 2023. Available at: <u>https://www.hse.ie/eng/services/list/5/cancer/profinfo/chemoprotocols/nccp-classificationdocument-for-systemic-anti-cancer-therapy-sact-induced-nausea-and-vomiting.pdf</u>
- 5. Obinutuzumab (Gazyvaro<sup>®</sup>) 1,000mg concentrate for solution for infusion Summary of Product Characteristics. Accessed January 2024. Last updated November 2023. Available at: <u>https://www.ema.europa.eu/en/documents/product-information/gazyvaro-epar-product-information\_en.pdf</u>
- vinCRIStine Sulphate 1 mg/mL Solution for Injection or Infusion Summary of Product Characteristics . Accessed January 2024 . Last updated October 2023. Available at: <u>https://www.hpra.ie/img/uploaded/swedocuments/Licence\_PA0822-232-</u>001\_09102023163547.pdf
- cycloPHOSphamide (Endoxana<sup>®</sup>) 500 mg Powder for Solution for Injection or Infusion Summary of Product Characteristics. Accessed January 2024. Last updated October 2022. Available at: <u>https://www.hpra.ie/img/uploaded/swedocuments/Licence\_PA2299-027-</u>001\_21122018112107.pdf
- DOXOrubicin 2mg/mL Summary of Product Characteristics. Accessed January 2024. Last updated October 2022. Available at: <u>https://www.hpra.ie/img/uploaded/swedocuments/Licence\_PA2315-083-</u> 001\_26022020112618.pdf

| Version   | Date            | Amen   | dment                                       | Approve       | d By              |
|---|-----------------|--|---|---------------|-------------------|
| 1   | 26/04/2019      |  |   | Dr Brian Bi   | rd                |
| 2   | 23/07/2024      | Reviewed.  |   | Dr Brian Bird |                   |
|   |                 | Updated order of administration.<br>Updated exclusions-pregnancy and |   |               |                   |
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| lactation. Amended baseline tests       |  |
|---|--|
| section (Virology screen-HIV and Hep C  |  |
| added).Updated renal and hepatic dose   |  |
| recommendations in line with Giraud et  |  |
| al, 2023. Updated emetogenic potential. |  |
| Updated supportive care section - anti- |  |
| fungal and constipation prophylaxis     |  |
| (vinCRIStine).Added induction phase     |  |
| steroids for bulky disease to Regimen   |  |
| Specific Complications. Updated in line |  |
| with NCCP standardisation.              |  |

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

<sup>ii</sup>Cardiotoxicity is a risk associated with anthracycline therapy that may be manifested by early (acute) or late (delayed) effects.

Risk factors for developing anthracycline-induced cardiotoxicity include:

- high cumulative dose, previous therapy with other anthracyclines or anthracenediones
- prior or concomitant radiotherapy to the mediastinal/pericardial area
- pre-existing heart disease
- concomitant use of other potentially cardiotoxic drugs

In establishing the maximal cumulative dose of an anthracycline, consideration should be given to the risk factors above and to the age of the patient.

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