Regimen Reference Order - CLL - oBINutuzumab + venetoclax

ARIA: CLL - [oBINutuzumab + venetoclax]

Planned Course: Cycles 1 to 6: oBINutuzumab and venetoclax (venetoclax begins on Cycle 1,

Day 22) (1 cycle = 28 days)

Cycles 7 to 12: venetoclax ONLY (1 cycle = 28 days)

Indication for Use: Chronic Lymphocytic Leukemia

CVAD: At Provider's Discretion

Proceed with treatment if:

• ANC equal to or greater than $1 \times 10^9/L$ AND Platelets equal to or greater than $30 \times 10^9/L$

- Potassium is within normal range (3.5 to 5 mmol/L)
- Corrected calcium is within normal range (2.2 to 2.6 mmol/L)
- Phosphate is within normal range (1 to 1.5 mmol/L)
- Uric acid is less than 420 micromol/L or less than baseline*
- Serum creatinine is normal or increased less than 20 micromol/L above baseline*
- LDH is normal or less than 1.5 times baseline*
 - * Baseline: defined as the value before treatment initiation

Cycle 1, Day 15

- Proceed with oBINutuzumab regardless of CBC
 - Contact Hematologist if parameters not met

Note: Hepatitis B serology results must be reviewed in accordance with CCMB Policy Hepatitis B Monitoring for Oncology and Hematology Patients

SEQUENCE OF MEDICATION ADMINISTRATION

| Pre-treatment Requirements | | | |
|--|-----------------------------|--|--|
| Drug Dose CCMB Administration Guideline | | | |
| Patient to drink 1.75 litro | es of water per day: | | |
| Starting two days | prior to starting venetocl | ax until 24 hours after first dose of venetoclax | |
| Starting two days dosing schedule) | prior to until 24 hours af | ter each venetoclax dose escalation (i.e. as part of the "ramp-up" | |
| *Alert: Contact physician | if patient did not follow h | nydration as directed | |
| allopurinol | 300 mg | Orally once daily to begin 3 days prior to Cycle 1 and MUST continue until venetoclax dose escalation is complete and patient is directed to discontinue | |
| | | (Self-administered at home) | |
| | | *Alert: Contact physician if patient did not take allopurinol as directed | |



| Treatment Regimen – CLL – oBINutuzumab + venetoclax | | |
|---|---------------------------|--|
| Establish primary solution 500 mL of: normal saline | | |
| Drug | Dose | CCMB Administration Guideline |
| Cycle 1 | | |
| Day 1 | | |
| cetirizine | 10 mg | Orally 1 hour prior to oBINutuzumab |
| acetaminophen | 650 mg | Orally 1 hour prior to oBINutuzumab |
| dexamethasone | 40 mg | IV in normal saline 50 mL over 15 minutes <u>1 hour</u> prior to oBINutuzumab *Nursing Alert: oBINutuzumab starts 1 hour after completion of dexamethasone infusion |
| Wait 1 hour after con | npletion of IV pre-medica | ation(s) before starting oBINutuzumab |
| oBINutuzumab | 100 mg | IV in normal saline 100 mL following administration rates below: • 0 to 60 minutes – 6 mL/hour • 60 to 120 minutes – 12 mL/hour • 120 minutes onwards – 24 mL/hour *Alert: Pharmacy to ensure final volume in bag = 100 mL (1 mg/mL final concentration) *Nursing Alert: IV tubing is primed with oBINutuzumab |
| Day 2 | | |
| cetirizine | 10 mg | Orally 1 hour prior to oBINutuzumab |
| acetaminophen | 650 mg | Orally 1 hour prior to oBINutuzumab |
| dexamethasone | 40 mg | IV in normal saline 50 mL over 15 minutes <u>1 hour</u> prior to oBINutuzumab *Nursing Alert: oBINutuzumab starts 1 hour after completion of dexamethasone infusion |
| Wait 1 hour after con | npletion of IV pre-medica | ation(s) before starting oBINutuzumab |
| oBINutuzumab | 900 mg | IV in normal saline 250 mL following administration rates below: • 0 to 30 minutes – 14 mL/hour • 30 to 60 minutes – 28 mL/hour • 60 to 90 minutes – 42 mL/hour • 90 to 120 minutes – 56 mL/hour • 120 to 150 minutes – 69 mL/hour • 150 to 180 minutes – 83 mL/hour • 180 to 210 minutes – 97 mL/hour • 210 to 240 minutes – 111 mL/hour *Alert: Pharmacy to ensure final volume in bag = 250 mL (3.6 mg/mL final concentration) |



| Days 8 and 15 | | |
|---------------------|---------------------------|---|
| cetirizine | 10 mg | Orally 30 minutes prior to oBINutuzumab |
| acetaminophen | 650 mg | Orally 30 minutes prior to oBINutuzumab |
| oBINutuzumab | 1000 mg | Slow Infusion: IV in normal saline 250 mL following administration rates below: |
| | | 0 to 30 minutes – 25 mL/hour |
| | | 30 to 60 minutes – 50 mL/hour |
| | | 60 to 90 minutes – 75 mL/hour |
| | | 90 minutes onwards – 100 mL/hour |
| | | *Alert: Pharmacy to ensure final volume in bag = 250 mL (4 mg/mL final concentration) |
| | | *Nursing Alert: IV tubing is primed with oBINutuzumab |
| venetoclax Dose Esc | calation (venetoclax "ran | np-up" dosing – usually 5 weeks duration) |
| venetoclax Dose Le | vel 1 (Usual duration = 7 | days) – Self-administered at home |
| Day 22 | | |
| venetoclax | 20 mg (2 of 10 mg | Orally once with food at 6:00 a.m. (Swallow whole) |
| | tablets) | *Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 22 venetoclax dose |
| | | Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results are available and |
| | | reviewed, contact patient with results and provide dosing directions for Day 23 |
| | | Do not proceed with Day 23 venetoclax dose without confirmation of blood work |
| Day 23 | 11 | |
| venetoclax | 20 mg (2 of 10 mg | Orally once with food at 6:00 a.m. (Swallow whole) |
| | tablets) | *Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 23 venetoclax dose |
| | | Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results are available and reviewed, contact patient with results and provide dosing directions for Days 24 to 28 |
| | | Do not proceed with Day 24 venetoclax dose without confirmation of blood work |
| Days 24 to 28 | | |
| venetoclax | 20 mg (2 of 10 mg | Orally once daily with food at 6:00 a.m. (Swallow whole) |
| | tablets) | *Alert: Blood work on Day 28 only required if blood work on Day 23 demonstrated evidence of biochemical tumor lysis syndrome |
| | | If blood work required on Day 28: Biochemistry must be drawn 6 to 8 hours following Day 28 venetoclax dose. Do not proceed with Cycle |



Cycle 2

venetoclax Dose Level 2* (Usual duration = 7 days)

*Only proceed with dose increase as per prescriber's assessment of blood work, tumor lysis and tolerance during Dose Level 1. In some cases, the venetoclax dose may remain at Dose Level 1 for more than a week, until safe to escalate

Day 1 – ensure to draw blood work between 12:30 and 13:00 prior to oBINutuzumab infusion

| 50 mg (1 of 50 mg tablet) | Orally once with food at 6:00 a.m. (Swallow whole) (Self-administered at home) |
|---------------------------|---|
| | *Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 1 venetoclax dose |
| | Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results are available and reviewed, contact patient with results and provide dosing directions for Day 2 |
| | Do not proceed with Day 2 venetoclax dose without confirmation of blood work |
| 10 mg | Orally 30 minutes prior to oBINutuzumab |
| 650 mg | Orally 30 minutes prior to oBINutuzumab |
| | tablet) |

If applicable, wait 1 hour after completion of IV pre-medication(s) before starting oBINutuzumab

| oBINutuzumab | 1000 mg | Rapid Infusion: IV in normal saline 250 mL following administration rates below: • 0 to 30 minutes – 25 mL/hour • 30 to 93 minutes – 225 mL/hour *Alert: Pharmacy to ensure final volume in bag = 250 mL (4 mg/mL final concentration) *Nursing Alert: IV tubing is primed with oBINutuzumab | | |
|--------------|-------------------|--|--|--|
| | | OR | | |
| | | Slow Infusion: IV in normal saline 250 mL following administration rates below: | | |
| | | 0 to 30 minutes – 25 mL/hour | | |
| | | 30 to 60 minutes – 50 mL/hour | | |
| | | 60 to 90 minutes – 75 mL/hour | | |
| | | 90 minutes onwards – 100 mL/hour | | |
| | | *Alert: Pharmacy to ensure final volume in bag = 250 mL (4 mg/mL final concentration) | | |
| | | *Nursing Alert: IV tubing is primed with oBINutuzumab | | |
| Day 2 | | | | |
| venetoclax | 50 mg (1 of 50 mg | Orally once with food at 6:00 a.m. (Swallow whole) | | |



tablet)

(Self-administered at home)

Day 2 venetoclax dose

*Alert: Post-dose biochemistry must be drawn 6 to 8 hours following

Patient does not need to stay at CancerCare Manitoba while

| | | awaiting biochemistry results. Once results are available and reviewed, contact patient with results and provide dosing directions for Days 3 to 7 Do not proceed with Day 3 venetoclax dose without confirmation of blood work |
|---|---|---|
| Days 3 to 7 | | |
| venetoclax | 50 mg (1 of 50 mg tablet) | Orally once daily with food at 6:00 a.m. (Swallow whole) (Self-administered at home) *Alert: Blood work on Day 7 only required if blood work on Day 2 demonstrated evidence of biochemical tumor lysis syndrome If blood work required on Day 7: Biochemistry must be drawn 6 to 8 hours following Day 7 venetoclax dose. Do not proceed with Day 8 venetoclax dose without confirmation of blood work |
| *Only proceed wirduring Dose Level until safe to escala | th dose increase as per pres 2. In some cases, the venet | 7 days) – Self-administered at home scriber's assessment of blood work, tumor lysis and tolerance soclax dose may remain at Dose Level 2 for more than a week, |
| Day 8 | | |
| venetoclax | 100 mg (1 of 100 mg tablet) | Orally once with food at 6:00 a.m. (Swallow whole) *Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 8 venetoclax dose Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results available and reviewed, contact patient with results and provide dosing directions for Day 9 Do not proceed with Day 9 venetoclax dose without confirmation of blood work |
| Day 9 | | |
| venetoclax | 100 mg (1 of 100 mg tablet) | Orally once with food at 6:00 a.m. (Swallow whole) *Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 9 venetoclax dose Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results are available and reviewed, contact patient with results and provide dosing directions Days 10 to 14 Do not proceed with Day 10 venetoclax dose without confirmation of blood work |
| | | |
| Days 10 to 14 | | |



venetoclax Dose Level 4* (Usual duration = 7 days) - Self-administered at home

*Only proceed with dose increase as per prescriber's assessment of blood work, tumor lysis and tolerance during Dose Level 3. In some cases, the venetoclax dose may remain at Dose Level 3 for more than a week, until safe to escalate

Day 15

venetoclax 200 mg (2 of 100 mg tablets)

Orally once with food at 6:00 a.m. (Swallow whole)

*Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 15 venetoclax dose

Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results available and reviewed, contact patient with results and provide dosing directions for Day 16 Do not proceed with Day 16 venetoclax dose without confirmation of blood work

Day 16

venetoclax

200 mg (2 of 100 mg tablets)

Orally once with food at 6:00 a.m. (Swallow whole)

*Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 16 venetoclax dose

Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results available and reviewed, contact patient with results and provide dosing directions for Days 17 to 21

Do not proceed with Day 17 venetoclax dose without confirmation of blood work

Days 17 to 21

venetoclax

200 mg (2 of 100 mg tablets)

Orally once daily with food at 6:00 a.m. (Swallow whole)

*Alert: Blood work on Day 21 only required if blood work on Day 16 demonstrated evidence of biochemical tumor lysis syndrome.

If blood work required on Day 21: Biochemistry must be drawn 6 to 8 hours following Day 21 venetoclax dose. Do not proceed with Day 22 venetoclax dose without confirmation of blood work

venetoclax Dose Level 5* - Self-administered at home

*Only proceed with dose increase as per prescriber's assessment of blood work, tumor lysis and tolerance during Dose Level 4. In some cases, the venetoclax dose may remain at Dose Level 4 for more than a week, until safe to escalate

Day 22

venetoclax

400 mg (4 of 100 mg tablets)

Orally once with food at 6:00 a.m. (Swallow whole)

*Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 22 venetoclax dose

Patient does not need to stay at CancerCare Manitoba while awaiting biochemistry results. Once results available and reviewed, contact patient with results and provide dosing directions for Day 23 Do not proceed with Day 23 venetoclax dose without confirmation of blood work



| Day 23 | | |
|-------------------------|------------------------------|--|
| venetoclax | 400 mg (4 of 100 mg tablets) | Orally once with food at 6:00 a.m. (Swallow whole) *Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 23 venetoclax dose Patient does not need to stay at CancerCare Manitoba while |
| | | awaiting biochemistry results. Once results available and reviewed, contact patient with results and provide dosing directions for Days 24 to 28 |
| | | Do not proceed with Day 24 venetoclax dose without confirmation of blood work |
| Days 24 to 28 | | |
| venetoclax | 400 mg (4 of 100 mg tablets) | Orally once daily with food at 6:00 a.m. (Swallow whole) |
| Cycles 3 to 6 | | |
| Day 1 | | |
| venetoclax | 400 mg (4 of 100 mg tablets) | Orally once with food (Swallow whole) (Self-administered at home) |
| cetirizine | 10 mg | Orally 30 minutes prior to oBINutuzumab |
| acetaminophen | 650 mg | Orally 30 minutes prior to oBINutuzumab |
| If applicable, wait 1 h | our after completion of IV p | re-medication(s) before starting oBINutuzumab |
| oBINutuzumab | 1000 mg | Rapid Infusion: IV in normal saline 250 mL following administration rates below: |
| | | 0 to 30 minutes – 25 mL/hour |
| | | 30 to 93 minutes – 225 mL/hour *Alert: Pharmacy to ensure final volume in bag = 250 mL (4 mg/mL |
| | | final concentration) |
| | | *Nursing Alert: IV tubing is primed with oBINutuzumab |
| | | OR |
| | | Slow Infusion: IV in normal saline 250 mL following administration rates below: |
| | | 0 to 30 minutes – 25 mL/hour |
| | | 30 to 60 minutes – 50 mL/hour |
| | | • 60 to 90 minutes – 75 mL/hour |
| | | 90 minutes onwards – 100 mL/hour * Alast: Pharmacy to ansura final values in hag = 250 mL/4 mg/mL * Alast: Pharmacy to ansura final values in hag = 250 mL/4 mg/mL |
| | | *Alert: Pharmacy to ensure final volume in bag = 250 mL (4 mg/mL final concentration) |
| | | *Nursing Alert: IV tubing is primed with oBINutuzumab |
| Days 2 to 28 | | |
| venetoclax | 400 mg (4 of 100 mg | Orally once daily with food (Swallow whole) |
| | tablets) | (Self-administered at home) |



| Cycles 7 to 12 | | | |
|----------------|--|---|--|
| Days 1 to 28 | | | |
| venetoclax | 400 mg (4 of 100 mg tablets) | Orally once daily with food (Swallow whole) (Self-administered at home) | |
| • | .EXTA®) available dosage streng -cytotoxic, Hazardous | gths: 10 mg, 50 mg and 100 mg tablets | |

In the event of an infusion-related hypersensitivity reaction, refer to the 'Hypersensitivity Reaction Standing Order'

REQUIRED MONITORING

Hepatitis B serology

• Hepatitis B surface antigen and Hepatitis B core antibody (drawn within preceding 5 years)

Cycle 1

Day 1

- CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders
- Baseline HIV serology
- Baseline EKG at physician's discretion

Day 8

No blood work required

Day 15

• CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders

Day 16 or 17

Hematologist assessment to determine tumor lysis risk and venetoclax dosing

Days 22 and 23

- CBC, serum creatinine, urea, potassium, phosphate, calcium, liver enzymes, LDH, albumin and uric acid as per Physician Orders
 - o At baseline prior to venetoclax initial dose (on Day 21), then
 - 6 to 8 hours post venetoclax on Day 22, then
 - o 6 to 8 hours post venetoclax on Day 23, then
 - As per Physician Orders, to determine ongoing dose of venetoclax

Day 28 (only if cycle 1, day 23 blood work demonstrated evidence of biochemical tumor lysis syndrome)

- CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders
 - o 6 to 8 hours post venetoclax on Day 28



Cycle 2

Days 1, 2, 8, 9, 15, 16, 22 and 23

- CBC, serum creatinine, urea, potassium, phosphate, calcium, liver enzymes, LDH, albumin and uric acid as per Physician Orders
 - o 6 to 8 hours post venetoclax on Days 7, 14 and 21, then
 - o 6 to 8 hours post venetoclax on Days 1, 8, 15 and 22, then
 - o 6 to 8 hours post venetoclax on Days 2, 9, 16 and 23, then
 - As per Physician Orders, to determine ongoing dose of venetoclax

Day 7 (only if day 2 blood work demonstrated evidence of biochemical tumor lysis syndrome)

- CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders
 - o 6 to 8 hours post venetoclax on Day 7

Day 14 (only if day 9 blood work demonstrated evidence of biochemical tumor lysis syndrome)

- CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders
 - 6 to 8 hours post venetoclax on Day 14

Day 21 (only if day 16 blood work demonstrated evidence of biochemical tumor lysis syndrome)

- CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders
 - o 6 to 8 hours post venetoclax on Day 21

Days 23 and 24

• Hematologist assessment to determine tumor lysis risk and venetoclax dosing

Cycles 3 to 12

Day 1

• CBC, serum creatinine, urea, sodium, potassium, phosphate, calcium, liver enzymes, LDH, total bilirubin, total protein, glucose, albumin and uric acid as per Physician Orders

oBINutuzumab monitoring

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline and as clinically indicated
- No observation period is required after oBINutuzumab administration. Patient can be discharged from treatment room if stable whether they had a reaction or not

| Recommended Support Medications | | | |
|---------------------------------|------|-------------------------------|--|
| Drug | Dose | CCMB Administration Guideline | |
| None required | | | |



DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- There is a risk of tumor lysis with this treatment regimen
- Instruct patient to drink 1.75 litres of water per day:
 - Two days prior to starting venetoclax
 - First day of venetoclax (until 24 hours after first dose of venetoclax)
 - Two days prior to and the day of each dose escalation (until 24 hours after each venetoclax dose escalation)
 (i.e. as part of the "ramp-up" dosing schedule)
- venetoclax tablets should be swallowed whole. Do not split, crush or chew
- venetoclax has potential for significant drug-drug interactions. Patients should notify clinic prior to starting any new medication
- · Avoid grapefruit and grapefruit juice, Seville oranges (i.e. orange marmalade) and starfruit
- allopurinol must start three days prior to start of Cycle 1 and continues once daily until "ramp-up" is complete and patient is directed to discontinue

ADDITIONAL INFORMATION

- Due to the risk of reactivation of Hepatitis B virus (HBV) while on this treatment regimen, prescriber must adhere to CCMB Policy Hepatitis B Monitoring for Oncology and Hematology Patients for ordering and interpreting HBV serology and prescribing antiviral prophylaxis
- If patient is considered at moderate to high risk for tumor lysis at the physician's discretion, the following additions may be required:
 - o rasburicase (7.5 mg) prior to starting venetoclax
 - IV hydration
- If rasburicase is required, follow rasburicase protocol (i.e. blood specimen must be put on ice). Refer to *Diagnostic Services of Manitoba Lab Information Manual* for further information
- venetoclax ramp-up to be prescribed by hematologist
- Dose increases will occur at the physician's discretion and usually occur at weekly intervals during the "ramp-up".
 In some cases, the dose may be maintained until safe to escalate. For example, the dose may not be increased to next dose level if the patient is experiencing tumor lysis, tolerance issues or rapid drop in lymphocyte count
- Administering nurse must document any infusion-related reactions with any dose of oBINutuzumab
- Ensure there were **no Grade 3 or 4** infusion-related reactions with the three preceding infusions prior to administering oBINutuzumab via rapid infusion. Patients will be switched to rapid infusion at Cycle 2, Day 1 if lymphocyte count is less than $5 \times 10^9/L$
- Note: For Cycles 2 to 6, an entry called "Physician Reminder oBINutuzumab infusion time 1 Units Insert Miscellaneous once" will appear in the electronic drug order. No action is required. This prompt is to remind the prescriber to confirm that patient is eligible for oBINutuzumab rapid infusion
- For Cycle 1, Days 1 and 2, oBINutuzumab administration is 6 to 8 hours on average. Treatment should be booked for earliest morning appointment
- venetoclax may only be prescribed and dispensed by physicians and pharmacists who are registered with and adhere to the guidelines of the AbbVie Distribution Program
- · venetoclax will be dispensed by CCMB Pharmacy

