ADULT Updated: January 24, 2024

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

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements				
Drug Dose CCMB Administration Guideline				
Patient to drink 1.75 litres of water per day:				
 Starting two days prior to starting venetoclax until 24 hours after first dose of venetoclax 				
dosing schedule)		ter each venetoclax dose escalation (i.e. as part of the "ramp-up" aydration 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			
Dose	CCMB Administration Guideline		
10 mg	Orally 1 hour prior to oBINutuzumab		
650 mg	Orally 1 hour prior to oBINutuzumab		
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		
npletion of IV pre-medica	ation(s) before starting 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		
10 mg	Orally 1 hour prior to oBINutuzumab		
650 mg	Orally 1 hour prior to oBINutuzumab		
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		
npletion of IV pre-medica	ation(s) before starting 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)		
	Dose 10 mg 650 mg 40 mg 10 mg 100 mg 40 mg 40 mg 40 mg 100 mg 40 mg		



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 Es	scalation (venetoclax "ran	mp-up" dosing – usually 5 weeks duration)
venetoclax Dose Le	evel 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	1	
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	1	
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 hours following Day 28 venetoclax dose. Do not proceed with Cycle 2, Day 1 venetoclax dose without confirmation of blood work



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

venetoclax	50 mg (1 of 50 mg	Orally once with food at 6:00 a.m. (Swallow whole)
	tablet)	(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
cetirizine	10 mg	Orally 30 minutes prior to oBINutuzumab
acetaminophen	650 mg	Orally 30 minutes prior to oBINutuzumab

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	
		<u>Slow Infusion</u> : 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)	
		*Alert: Post-dose biochemistry must be drawn 6 to 8 hours following Day 2 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 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
	·	7 days) – Self-administered at home
	l 2. In some cases, the venet	scriber's assessment of blood work, tumor lysis and tolerance coclax 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	100 mg (1 of 100 mg tablet)	Orally once daily with food at 6:00 a.m. (Swallow whole) *Alert: Blood work on Day 14 only required if blood work on Day 9 demonstrated evidence of biochemical tumor lysis syndrome. If blood work required on Day 14: Biochemistry must be drawn 6 to 8 hours following Day 14 venetoclax dose. Do not proceed with Day 15



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	nour 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 *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 tablets)	Orally once daily with food (Swallow whole) (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)	
venetoclax (VENCLEXTA®) available dosage strengths: 10 mg, 50 mg and 100 mg tablets Classification: Non-cytotoxic, Hazardous			

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

REQUIRED MONITORING

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 hepatitis B and 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
 - At baseline prior to venetoclax initial dose (on Day 21), then
 - o 6 to 8 hours post venetoclax on Day 22, then
 - o 6 to 8 hours post venetoclax on Day 23, then
 - o 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
 - o 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
 - 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
 - o 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

- If patient is considered at moderate to high risk for tumor lysis at the physician's discretion, the following additions may be required:
 - 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 <u>not</u> 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

