

	NH3 FOUNDATION TRUST						
Document History							
Version Number	Issue I	Date					
2.0	05/03/	2021	05/03/2024	05/03/2024			
Changes from previous version:	Updated prescr	iptions and monitoring					
		Authors					
Haematologist	Haematologist Pharmacist Nurse Specialist						
Patient Name	DOB	Hospital No.	Consultant	Allergies			

Indications	CLL in the presence of 17p deletion or <i>TP53</i> mutation in adult patients w for or have failed a B-cell receptor pathway inhibitor.	ho are unsuitable
	Tor or have railed a b-ceil receptor patriway irinibitor.	
	CLL in the absence of 17p deletion or TP53 mutation in adult patients wh	o have failed
	both chemoimmunotherapy and a B-cell receptor pathway inhibitor.	
Pre-treatment	Mandatory Fields: (Incomplete fields can result in delayed trea	atment)
evaluation	Height (cm)	
checklist	Weight (kg)	
	Surface Area Dubois (m ²); if adjusted state SA used to dose	
	WHO Performance	
	Testing for Hepatitis B, Hepatitis C and HIV	Date
	Sperm banking or oocyte/embryo preservation must be	
	offered to males <55yrs and pre-menopausal women	
	concerned about fertility	
	Arrangements made to discuss at MDT	Date
	Baseline imaging requested	
	ECHO or ECG required	
	Provide contact details for Clinical Nurse Specialist for	
	further information	
	Complete Current Medication List and discontinue any	
	inappropriate medication (e.g. immunosuppressive drugs)	
	Dose modifications considered and/or a Growth-Colony Stimulating Factor. Details:	
	Cancer care suite informed for date	D (
		Date
	Consented by:	Date
	Patient given blood form for at least 1 week prior to chemotherapy	
	CDF form completed if necessary	
	<u> </u>	
	Consultant / Speciality Doctor Signature Date _	
Investigations	FBC, U&Es, LFTs and Bone Profile	
prior to each		
course	Specific bloods are required at start of treatment when dose escalating to	monitor for
	Tumour Lysis Syndrome. See full protocol for details	



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Current Medication List

Concomitant use of Venetoclax with

- strong CYP3A inhibitors at initiation and during the dose-titration phase is contraindicated
- bile acid sequestrants with venetoclax is not recommended.
- P-gp, or BCRP substrates (e.g., digoxin, dabigatran, everolimus, sirolimus) with Venetoclax should be avoided.

If any of the above medications then inform Haematology Consultant seek and consult SPC and pharmacy advise



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Drug Regimen							
Week	Drug	Dose	Route	Comments			
1		20mg					
2		50mg	РО	Can halow for blood toot manitaring around door			
3	Venetoclax	100mg		See below for blood test monitoring around dose increases			
4		200mg		liloreases			
5+		400mg					
Cycle F	Cycle Frequency Once established on treatment dose cycles are 28 days.						

Medication Concurrent	Allopurinol 300mg OD for 3 days prior to starting Venetoclax and continuing until dose escalation has completed and no evidence of biochemical tumour lysis syndrome.
	Rasburicase may be given for high risk patients instead.
	Co-Trimoxazole 960mg OD Mon/Wed/Friday for 28 days (480mg if CrCl 15-30mls/min)

		Concurr	ent Medic	cation F	Prescriptio	n			
Date									
		Cycle Day			Cycle Day			Cycle Day	
Adjuvants	Dose	Dispensed	Given by	Dose	Dispensed	Given by	Dose	Dispensed	Given by
Allopurinol 300mg OD (100mg od if CrCl<20ml/min)									
Co-Trimoxazole 960mg OD Mon/Wed/Friday for 28 days (480mg if CrCl 15-30mls/min)									
Prescribed by:									
Regimen and calculation checked (pharmacist)									
Pharmacist Dispensing date and check									



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Toxicity				
	System organ class	Frequency (all grades) ²	Adverse reactions	Grade ≥3ª
		Very common	Pneumonia Upper respiratory tract infection	
Infections and infestations		Common	Sepsis Urinary tract infection	Sepsis Pneumonia Urinary tract infection Upper respiratory tract infection
	Blood and lymphatic system disorders	Very common	Neutropenia Anaemia Lymphopenia	Neutropenia Anaemia
		Common	Febrile neutropenia	Febrile neutropenia Lymphopenia
		Very common	Hyperkalaemia Hyperphosphataemia Hypocalcaemia	
	Metabolism and nutrition disorders	Common	Tumour lysis syndrome Hyperuricaemia	Tumour lysis syndrome Hyperkalaemia Hyperphosphataemia Hypocalcaemia Hyperuricaemia
	Gastrointestinal	Very common	Diarrhoea Vomiting Nausea Constipation	
	disorders	Common		Diarrhoea Vomiting Nausea
		Uncommon		Constipation
	General disorders and administration	Very common Common	Fatigue	Fatigue
	site conditions		Blood creatinine	
	Investigations	Uncommon	increased	Blood creatinine increased



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Dose		
Modifications		
	Venetoclax can cause rapid reduction in tumour, and thus poses a risk for TLS in the initial 5-week dose-titration phase. Changes in electrolytes consistent with TLS that require prompt management can occur as early as 6 to 8 hours following the first dose of venetoclax and at each dose increase.	
		ratory Tumour Lysis Syndrome
	Lab Test	Change
	Urate	>475 µmol/l or 25% increase from baseline
	Potassium	>5.9 mmol/l or 25% increase from baseline
	Phosphate	>2.0 mmol/l or 25% increase from baseline
	Calcium	<1.76 mmol/l or 25% decrease from baseline
	The risk of TL: with high tumo lymphocyte co Reduced rena The risk may of Prior to initiatily evaluation (e.g) (potassium, un existing abnor	S is a continuum based on multiple factors, including comorbidities. Patients our burden (e.g., any lymph node with a diameter ≥5 cm or high absolute ount [ALC ≥25 x 10 ⁹ /I]) are at greater risk of TLS when initiating venetoclax. If function (creatinine clearance [CrCl] <80 ml/min) further increases the risk. decrease as tumour burden decreases with venetoclax treatment. In a venetoclax, tumour burden assessment, including radiographic g., CT scan), must be performed for all patients. Blood chemistry ric acid, phosphorus, calcium, and creatinine) should be assessed and premalities corrected. The prophylaxis measures listed below should be intensive measures should be employed as overall risk increases.
	Hydration Patients should be adequately hydrated during the dose-titration phase to reduce the risk	
	of TLS. Patients should be instructed to drink plenty of water daily starting 2 days before and throughout the dose-titration phase. Patients should be particularly instructed to drink 1.5 to 2.0 L of water daily, 2 days prior to and the days of dosing at initiation and each subsequent dose increase. Intravenous fluids should be administered as indicated based on overall risk of TLS or for those who cannot maintain an adequate level of oral hydration.	



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Anti-hyperuricaemic agents

Anti-hyperuricaemic agents should be administered 2 to 3 days prior to starting treatment with venetoclax in patients with high uric acid levels or at risk of TLS and may be continued through the titration phase.

Laboratory assessments

Pre-dose: For all patients, blood chemistries should be assessed prior to the initial dose to evaluate kidney function and correct pre-existing abnormalities. Blood chemistries should be reassessed prior to each subsequent dose increase during the titration phase.

Post-dose: For patients at risk of TLS, blood chemistries should be monitored at 6 to 8 hours and at 24 hours after the first dose of venetoclax. Electrolyte abnormalities should be corrected promptly. The next venetoclax dose should not be administered until the 24-hour blood chemistry results have been evaluated. The same monitoring schedule should be followed at the start of the 50 mg dose and then for patients who continue to be at risk, at subsequent dose increases.

Hospitalisation

Based on physician assessment, some patients, especially those at greater risk of TLS, may require hospitalisation on the day of the first dose of venetoclax for more intensive prophylaxis and monitoring during the first 24 hours (see section 4.8). Hospitalisation should be considered for subsequent dose increases based on reassessment of risk.

Dose modifications for tumour lysis syndrome

If a patient experiences blood chemistry changes suggestive of TLS, the following day's venetoclax dose should be withheld. If resolved within 24 to 48 hours of last dose, treatment with venetoclax can be resumed at the same dose. For events of clinical TLS or blood chemistry changes requiring more than 48 hours to resolve, treatment should be resumed at a reduced dose (see Table 2). When resuming treatment after interruption due to TLS, the instructions for prevention of TLS should be followed (see "Prevention of tumour lysis syndrome" above).

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Dose modifications for other toxicities

Treatment with Venetoclax should be withheld for any grade 3 or 4 non-haematological toxicities, grade 3 or 4 neutropenia with infection or fever, or grade 4 haematological toxicities, except lymphopenia. Once the toxicity has resolved to grade 1 or baseline level (recovery), therapy with venetoclax may be restarted at the same dose. If the toxicity recurs, and for any subsequent occurrences, the dose reduction guidelines in Table 2 should be followed when resuming treatment with venetoclax following resolution. A larger dose reduction may occur at the discretion of the physician. For patients who require dose reductions to less than 100 mg for more than 2 weeks, discontinuation of venetoclax should be considered.

Table 2

Dose at interruption	Restart dose
(mg)	(mg ^a)
400	300
300	200
200	100
100	50
50	20
20	10

^aThe modified dose should be continued for 1 week before increasing the dose.

For patients who have had a dosing interruption lasting more than 1 week during the first 5 weeks of dose titration or more than 2 weeks after completing the dose-titration phase, TLS risk should be reassessed to determine if restarting at a reduced dose is necessary (e.g., all or some levels of the dose titration; see Table 2).

Dose modifications for use with CYP3A inhibitors

Concomitant use of venetoclax with strong or moderate CYP3A inhibitors increases venetoclax exposure and may increase the risk for TLS at initiation and during the dose-titration phase and for other toxicities.

Table 3 describes Venetoclax contraindication or dosage modification based on concomitant use with a strong or moderate CYP3A inhibitor. Patients should be monitored more closely for signs of toxicities and the dose may need to be further adjusted. The venetoclax dose that was used prior to initiating the CYP3A inhibitor should be resumed 2 to 3 days after discontinuation of the inhibitor.

Table 3: Management of potential Venetoclax interactions with CYP3A inhibitors

Inhibitors	Initiation and titration phase	Steady daily dose (After titration phase)
		Reduce the Venetoclax dose
CYP3A inhibitor	Contraindicated	by at least 75%
Moderate CYP3A inhibitor	Reduce the Venetoclax dose by	at least 50%

^aAvoid concomitant use of Venetoclax with moderate CYP3A inhibitors at initiation and during the dose titration phase. Consider alternative medications or reduce the Venetoclax dose as described in this table.

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TLS Monitoring at start of treatment

To ensure bloods are monitored pre venetoclax, plus 6 and 24 hours following dose increment.

Week 1 day 1:

- Patient attends Cancer Care 8am and receives first dose of venetoclax.
- Patient remains on the unit for 6 hours at which point repeat bloods are done (U&Es, Bone Profile & Urate).
- Liaise with consultant immediately upon receipt of blood results
- Depending on blood results, consultant to decide on admission or discharge from cancer care

Week 1 Day 2:

- If not admitted previous day, patient attends Cancer Care 8am for bloods (as above).
- Patient waits until results received.
- Liaise with consultant immediately upon receipt of blood results
- Depending on blood results, consultant to decide on admission or discharge from cancer care
- If discharge, Patient given next 6 days supply of venetoclax to take home

Week 2 day 0:

 Patient has bloods checked in community 1-3 days prior to the start of the next dose increase

Week 2 day 1:

- Patient attends Cancer Care 8am and receives first dose of venetoclax.
- Patient remains on the unit for 6 hours at which point repeat bloods are done (U&Es, Bone Profile & Urate).
- Liaise with consultant immediately upon receipt of blood results
- Depending on blood results, consultant to decide on admission or discharge from cancer care

Week 2 Day 2:

- If not admitted previous day, patient attends Cancer Care 8am for bloods (as above).
- Patient waits until results received.
- Liaise with consultant immediately upon receipt of blood results
- Depending on blood results, consultant to decide on admission or discharge from cancer care
- If discharge, Patient given next 6 days supply of venetoclax to take home

Week 3 onwards:

 Visits to cancer care for pre and post venetoclax bloods no longer necessary if patient has had no evidence of tumour lysis on previous dose escalations.
 Otherwise continue with monitoring on day 1 and 2 of each increment.



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Notes	Women of childbearing potential/Contraception in females
	Women should avoid becoming pregnant while taking Venetoclax and for at least 30 days after ending treatment. Therefore, women of childbearing potential must use highly effective contraceptive measures while taking venetoclax and for 30 days after stopping treatment. It is currently unknown whether venetoclax may reduce the effectiveness of hormonal contraceptives, and therefore women using hormonal contraceptives should add a barrier method.
	Pregnancy Based on embryo-foetal toxicity studies in animals, venetoclax may harm the foetus when administered to pregnant women. There are no adequate and well-controlled data from the use of venetoclax in pregnant women. Studies in animals have shown reproductive toxicity. Venetoclax is not recommended during pregnancy and in women of childbearing potential not using highly effective contraception.
	Breast-feeding It is unknown whether venetoclax or its metabolites are excreted in human milk. A risk to the breast-feeding child cannot be excluded. Breast-feeding should be discontinued during treatment with venetoclax.
	Fertility No human data on the effect of venetoclax on fertility are available. Based on testicular toxicity in dogs at clinically relevant exposures, male fertility may be compromised by treatment with venetoclax. Before starting treatment, counselling on sperm storage may be considered in some male patients.
Reference	1) Venetoclax SPC 21/04/2020

https://www.medicines.org.uk/emc/product/2267/smpc

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Case Note Copy

Consent Form 3 Patient agreement to investigation or treatment (procedure where consciousness not impaired)

Name of Procedure

(Include brief explanation if medical term not clear)

Venetoclax monotherapy

Statement of health professional (to be filled in by health professional with appropriate knowledge of proposed procedure, as specified in consent policy)

I have explained the procedure to the patient. In particular, I have explained:

The intended benefits: Treatment of CLL/SLL, life extension and improved quality of life.

Serious of frequently occurring risks: Infections, Low blood counts, Tumour lysis syndrome, altered bowel habit, nausea and fatigue

I have also discussed what the procedure is likely to involve, the benefits and risks of any available alternative treatments (including no treatment) and any particular concerns of those involved. The following leaflet has been provided: Venetoclax patient information leaflet Signed:____ Job Title: Name (PRINT): **Statement of interpreter** (where appropriate) I have interpreted the information above to the patient to the best of my ability and in a way in which I believe s/he can understand Date: Name (PRINT) Signed: Statement of patient **I agree** to the procedure described above. I understand that you cannot give me a guarantee that a particular person will perform the procedure. The

person will, however, have appropriate experience.

I understand that the procedure will not involve local anaesthesia.

Signed:	Date:	Name (PRINT)
		,

Confirmation of consent (to be completed by a health professional when the patient is admitted for the procedure, if the patient has signed the form in advance)

I have confirmed that the patient has no further questions and wishes the procedure to go ahead.

Name (PRINT):____ Job Title:



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Patient Copy

Consent Form 3 Patient agreement to investigation or treatment

Job Title:____

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Signed:	Date:
Name (PRINT):	Job Title:
Statement of interpreter (where appr	opriate)
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Signed: Da	te: Name (PRINT)
Statement of patient	
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Signed: Da	te: Name (PRINT)
Confirmation of consent (to be comp procedure, if the patient has signed the form	oleted by a health professional when the patient is admitted for the n in advance)
I have confirmed that the patient has no	further questions and wishes the procedure to go ahead.
Signed:	Date:

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