

Indication	Monotherapy for the treatment of CLL which has a 17p deletion or TP53 mutation, patients should have not received any previous BTK inhibitor therapy unless 1st line acalabrutinib or 1st line zanubrutinib has been stopped solely for dose limiting toxicity and in the clear absence of disease progression. Monotherapy for the treatment of previously treated CLL, patients should have not received any previous BTK inhibitor therapy unless: acalabrutinib or zanubrutinib has been stopped solely for dose limiting toxicity and in the clear absence of disease progression. or the patient received 1st line ibrutinib plus venetoclax and was in response to treatment on completion and this regimen is the first BTK inhibitor to be prescribed since relapse. For Relapsed or Refractory Mantle Cell Lymphoma (MCL) in patients who have received ONLY 1 prior line of rituximab-containing chemotherapy, patients should have not received prior therapy with a BTK inhibitor unless zanubrutinib has been stopped solely for dose limiting toxicity and in the clear absence of disease progression. NB there are 2 dosing schedules one for CLL and one for MCL.
Treatment Intent	Disease Modification
Frequency and number of cycles	Repeat every 28 days. Schedule 1 for the treatment of CLL Schedule 2 for the treatment of MCL Continuously until disease progression or unacceptable toxicity or patient choice to stop treatment.
Monitoring Parameters pre-treatment	• Virology screening: All new patients referred for systemic anti-cancer treatment should be screened for hepatitis B and C and the result reviewed prior to the start of treatment. Patients not previously tested who are starting a new line of treatment, should also be screened for hepatitis B and C. Further virology screening will be performed following individual risk assessment and clinician discretion. • ECG baseline. Further cardiac evaluation including an ECHO should be considered in patients with cardiac risk factors or previous anthracycline therapy. • FBC, LFTs, creatinine, urea and electrolytes should be measured before each cycle. • BP to be monitored every cycle. • Proceed with next cycle if ANC $\geq 0.5 \times 10^9/L$ and platelets $\geq 25 \times 10^9/L$. If counts below these check with consultant. • Cardiac arrhythmia and cardiac failure: ○ Atrial fibrillation, atrial flutter and cases of ventricular tachyarrhythmia and cardiac failure have been reported in patients treated with ibrutinib. Periodically monitor all patients clinically for cardiac manifestations including arrhythmia and cardiac failure. In patients who develop signs and/or symptoms of ventricular tachyarrhythmia, ibrutinib should be temporarily discontinued and a thorough clinical benefit/risk assessment should be performed before possibly restarting therapy. ○ Ibrutinib should be withheld for any new onset or worsening grade 2 cardiac failure or grade 3 cardiac arrhythmias. See table 2 for dose modification recommendations. • Renal impairment: • No dose adjustment for patients with CrCl $>30\text{ml/min}$. No data in patients with CrCl $<30\text{ml/min}$ or in patients on dialysis, use only if benefit outweighs risk. Monitor closely for signs of toxicity. • Hepatic impairment: Ibrutinib is metabolised in the liver. For patients with mild liver impairment (Child-Pugh class A), the recommended dose is 280 mg daily. For patients with moderate liver impairment (Child-Pugh class B),

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	the recommended dose is 140 mg daily. Monitor patients for signs of toxicity and follow dose modification guidance as needed (see SPC). It is not recommended to administer Ibrutinib to patients with severe hepatic impairment (Child-Pugh class C). • Monitor patient closely for any signs and symptoms of bleeding. Treatment should be held 3 to 7 days pre and post-surgery dependant on type of surgery. • Interstitial Lung Disease (ILD) • Cases of ILD have been reported in some patients. Monitor patients for pulmonary symptoms indicative of ILD. If symptoms develop, interrupt treatment and manage ILD appropriately. If symptoms persist, consider the risks and benefits of treatment and follow the dose modification guidelines (see SPC). • Cases of invasive fungal infections, including cases of Aspergillosis, Cryptococcosis and Pneumocystis jiroveci infections have been reported following the use of ibrutinib. • Splenic rupture • Cases of splenic rupture have been reported following discontinuation of ibrutinib. Disease status and spleen size should be carefully monitored (e.g. clinical examination, ultrasound) when treatment is interrupted/discontinued. Patients who develop left upper abdominal or shoulder tip pain should be assessed and splenic rupture should be considered. • Dose Modifications: • Ibrutinib should be withheld if neutrophils $< 1.0 \times 10^9/l$ with infection or fever, or any grade 4 haematological toxicity (e.g. neutrophils $< 0.5 \times 10^9/l$ or platelets $< 25 \times 10^9/l$). • Withhold ibrutinib for any new onset or worsening grade ≥ 3 non-haematological toxicity. Once toxicity has resolved to Grade 1 or baseline, ibrutinib may be re-started, following table 1 below. If the toxicity reoccurs, the once daily dose should be reduced by 140 mg. A second reduction of dose by 140 mg may be considered as needed. If these toxicities persist or recur following two dose reductions, discontinue the medicinal product. • Common drug interactions: (for comprehensive list refer to BNF/SPC) ○ Warfarin or vitamin K antagonists should not be administered concomitantly with ibrutinib. ○ Patient receiving antiplatelet agents in conjunction with ibrutinib should be observed closely for any signs of bleeding or bruising. Ibrutinib should be withheld in the event of any bleeding events. ○ Ibrutinib is metabolised by CYP 3A4. Avoid concomitant use of strong (ketoconazole, clarithromycin, itraconazole and ritonavir) or moderate (fluconazole, erythromycin, amprenavir, aprepitant, and atazanavir) CYP3A4 inhibitors. If the benefit outweighs the risk and a strong CYP3A4 inhibitor must be used, reduce the dose to 140 mg for the duration of the inhibitor use or withhold ibrutinib temporarily (for 7 days or less). If a moderate CYP3A4 inhibitor is indicated, reduce ibrutinib dose to 280 mg for the duration of the inhibitor use. Monitor patient closely for toxicity and follow dose modification guidance as needed. Avoid moderate or strong inducers (e.g. carbamazepine, rifampicin, phenytoin, and St. John's Wort). ○ To minimise the potential for an interaction in the GI tract, oral narrow therapeutic range, P-gp or BCRP substrates such as digoxin or methotrexate should be taken at least 6 hours before or after ibrutinib. ○ Do not take with grapefruit juice or Seville oranges. ○ Supplements such as fish oil and vitamin E preparations should be avoided. • Driving and machinery: Patients should be made aware that ibrutinib may affect their ability to drive and use machines. • Missed dose: If a dose is missed it should be taken as soon as possible on the same day and the patient should return to the normal schedule the following day. • For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and supply Patient Information Leaflet and Macmillan information sheet.
References	KMCC protocol HAEM-CLL-029 V8 SPC accessed online 06.08.2025 CDF list V1.370 accessed online 06.08.2025

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NB For funding information, refer to CDF and NICE Drugs Funding List

Table 1: Recommended dose modifications for non-cardiac events are described below:

Events †	Toxicity Occurrence	CLL dose modification after recovery	MCL dose modification after recovery
Grade 3 or 4 non-haematological toxicities	First*	Restart at 420mg daily	Restart at 560mg daily
	Second	Restart at 280mg daily	Restart at 420mg daily
Grade 3 or 4 neutropenia with infection or fever	Third	Restart at 140mg daily	Restart at 280mg daily
	Fourth	Discontinue ibrutinib	Discontinue ibrutinib
Grade 4 haematological toxicities			

† Grading based on National Cancer Institute-Common Terminology Criteria for Adverse Events (NCI-CTCAE) criteria, or International Workshop on Chronic Lymphocytic Leukemia (IWCLL) criteria for hematologic toxicities in CLL/SLL.

* When resuming treatment, restart at the same or lower dose based on benefit-risk evaluation. If the toxicity reoccurs, reduce daily dose by 140 mg.

Table 2: Recommended dose modifications for cardiac events.

Events	Toxicity occurrence	MCL dose modification after recovery	CLL/WM dose modification after recovery
Grade 2 cardiac failure	First	restart at 420 mg daily	restart at 280 mg daily
	Second	restart at 280 mg daily	restart at 140 mg daily
	Third	discontinue	
Grade 3 cardiac arrhythmias	First	restart at 420 mg daily [†]	restart at 280 mg daily [†]
	Second	discontinue	
Grade 3 or 4 cardiac failure Grade 4 cardiac arrhythmias	First	discontinue	

† Evaluate the benefit-risk before resuming treatment.

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Schedule 1 for the treatment of CLL (HAEM-CLL-029)**Repeat every 28 days**

Day	Drug	Dose	Route	Administration
1	IBRUTINIB	420mg	PO	To be taken once a day at approximately the same time each day. Swallow whole with water. Available as 420mg, 280mg and 140mg tablets.
	Allopurinol	300mg	PO	OD for 4 weeks. Cycle one only
	Metoclopramide	10mg	PO	TDS PRN Do not take for more than 5 days continuously.
	Aciclovir	400mg	PO	BD
	Co-trimoxazole	480mg	PO	BD on a Monday Wednesday and Friday only.
	Consider antifungal prophylaxis only in patients with additional risk factors being aware of drug interactions with CYP3A inhibitors			

Schedule 2 for the treatment of Mantle Cell Lymphoma (HAEM-NHL-074)**Repeat every 28 days**

Day	Drug	Dose	Route	Administration
1	IBRUTINIB	560mg	PO	To be taken once a day at approximately the same time each day. Swallow whole with water. Available as 560mg, 420mg, 280mg and 140mg tablets.
	Allopurinol	300mg	PO	OD for 4 weeks. Cycle one only
	Metoclopramide	10mg	PO	TDS PRN Do not take for more than 5 days continuously.
	Aciclovir	400mg	PO	BD
	Co-trimoxazole	480mg	PO	BD on a Monday Wednesday and Friday only.
	Consider antifungal prophylaxis only in patients with additional risk factors being aware of drug interactions with CYP3A inhibitors			

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