Systemic Anti-Cancer Therapy Protocol

Acalabrutinib (monotherapy) Chronic Lymphocytic Leukaemia

PROTOCOL REF: MPHAAMCLLHA (Version No: 1.1)

Approved for use in:

- 1. Acalabrutinib as monotherapy is recommended as an option for untreated chronic lymphocytic leukaemia (CLL) in adults, only if:
 - there is a 17p deletion or TP53 mutation, or
 - there is no 17p deletion or TP53 mutation, and fludarabine plus cyclophosphamide and rituximab (FCR), or bendamustine plus rituximab (BR) is unsuitable
- 2. Acalabrutinib as monotherapy is recommended, within its marketing authorization, as an option for previously treated CLL in adults.

Blueteq registration is required

Dosage:

Drug	Dose	Route	Frequency
Acalabrutinib capsule	100mg	Oral	Twice daily continuously

To continue until progression or unacceptable toxicity.

Administration:

- Can be taken with or without food
- Should be swallowed whole with a glass of water. Do not open, break, or chew capsules

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- Should be taken either 2 hours before or 2 hours after any antacid medication or two hours before H2 receptor antagonists
- If more than 3 hours past usual dosing time, skip the missed dose and take the next dose of acalabrutinib at the regularly scheduled time. Do not take an extra dose to make up for a missed dose
- Consider withholding acalabrutinib for 3-7 days pre and post surgery depending on the type of surgery and the risk of bleeding

Anti-emetic risk:

Mildly emetogenic.

Supportive treatments:

Metoclopramide 10mg three times a day when required Co-trimoxazole 480mg once daily

Allopurinol 300mg once daily for first month of therapy

Interactions:

Strong CYP3A Inhibitors (e.g. itraconazole and clarithromycin)				
Clinical Impact		 Co-administration of acalabrutinib with a 		
		strong CYP3A inhibitor	increased	
		acalabrutinib plasma co	oncentration.	
		Increased acalabrutinib concentrations may		
		result in increased toxic	city.	
Prevention or Management		Avoid co-administration of strong CYP3A		
		inhibitors with acalabru	tinib.	
		 Alternatively, if the inh 	nibitor will be used	
		short-term, interrupt ac	alabrutinib.	
Moderate CYP3A Inhibitors (e.g	g. erythromyd	in, fluconazole, verapa	amil)	
Clinical Impact		Co-administration of acalabrutinib with a		
·		moderate CYP3A inhibitor may increase		
		acalabrutinib plasma concentrations.		
		Increased acalabrutinib concentrations may		
		result in increased toxic	city.	
Prevention or Management		 When acalabrutinib is 	co-administered with	
		moderate CYP3A inhibitors, reduce		
		acalabrutinib dose to 100 mg once daily.		
Strong CYP3A Inducers (e.g. phenytoin and rifampin)				
Clinical Impact		Co-administration of acalabrutinib with a		
		strong CYP3A inducer decreased		
		acalabrutinib plasma concentrations.		
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Decreased acalabrutinib concentrations
may reduce acalabrutinib activity.
Avoid co-administration of strong CYP3A
inducers with acalabrutinib.
If a strong CYP3A inducer cannot be
avoided, increase the acalabrutinib dose to
200 mg approximately every 12hours.
Co-administration of acalabrutinib with a
proton pump inhibitor, H2- receptor
antagonist, or antacid may decrease
acalabrutinib plasma concentrations.
Decreased acalabrutinib concentrations
may reduce acalabrutinib activity.
If treatment with a gastric acid reducing
agent is required, consider using a H ₂
receptor antagonist (e.g., ranitidine or
famotidine) or an antacid (e.g., calcium
carbonate).
Antacids: Separate dosing by at least 2
hours.
H2-receptor antagonists: Take acalabrutinib 2
hours before taking the H2- receptor
antagonist.
Proton pump inhibitors: Avoid co-
administration. Due to the long-lasting effect
of proton pump inhibitors, separation of doses
may not eliminate the interaction with
acalabrutinib.

Main toxicities:

Thrombocytopenia, neutropenia, anaemia, nausea, vomiting, diarrhoea, serious infections, haemorrhage, secondary primary malignancies and atrial fibrillation.

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Investigations and treatment plan

	Pre	Cycle 1	Cycle 2	Cycle 3+	Ongoing
Clinical Assessment	Χ	Х	X	X	
SACT Assessment (including toxicity and performance status)		Х	Х	Х	
FBC	X	х	x	X	Can reduce to 3 monthly with stable treatment
U&E & LFTs & Calcium profile	Х	х	х	Х	Can reduce to 3 monthly with stable treatment
CrCl (Cockcroft and Gault)	Х				
Informed Consent	Χ				
ECG and ECHO	Х				Patients with cardiac history or at risk of cardiac complications
CT scan	X				If clinically indicated
Bone marrow biopsy	X				If clinically indicated
Height	X				
Weight	Х	Х	Х	Х	
Pregnancy test	Х				
Hepatitis B (including surface antigen and HB core antibody) and Hepatitis C testing	Х				

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Dose Modifications and Toxicity Management:

Haematological toxicity:

Adverse Reaction	Occurrence	Dose Modification
Platelets less than 50 x 10 ⁹ /L <i>and</i> bleeding OR platelets less than 25 x 10 ⁹ /L	First and Second	Interrupt acalabrutinib. Once toxicity has resolved to Grade 1 (platelets >75 x 10 ⁹ /L, ANC >1.5 x 10 ⁹ /L) or baseline level, acalabrutinib may be resumed at 100 mg approximately every 12 hours.
OR ANC less than 0.5 x 10 ⁹ /L lasting longer than 7 days (GCSF could be considered).		Interrupt acalabrutinib. Once toxicity has resolved to Grade 1 (platelets >75 x 10 ⁹ /L, ANC >1.5 x 10 ⁹ /L) or baseline level, acalabrutinib may be resumed at a reduced frequency of 100 mg once daily.
	Fourth	Discontinue acalabrutinib.

These haematological guidelines assume that patients are well with good performance status, that other acute toxicities have resolved and the patient has not had a previous episode of neutropenic sepsis.

Dosing in renal and hepatic impairment:

Hepatic	
Severe	Avoid acalabrutinib
Renal	
CrCl < 30ml/min or dialysis	No data to support use

References:

Calquence (Acalabrutinib) Summary of Product Characteristics available at https://www.medicines.org.uk/emc Viewed 25th March 2021

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