Systemic Anti Cancer Treatment Protocol

Alectinib

PROTOCOL REF: MPHAALECLU (Version No: 1.1)

This protocol has been temporarily amended-please see the ORAL SACT OPERATIONAL CHANGES DURING COVID -19.

Amendments may include less frequent blood monitoring, telephone SACT assessments and longer durations of treatment being dispensed.

Approved for use in:

- 1st line treatment for patients with anaplastic lymphoma kinase (ALK) positive advanced non-small cell lung cancer
- Must be stage IIIb or IV disease
- Blueteq registration required: https://www.blueteq-secure.co.uk/Trust/

Dosage:

Drug	Dosage	Route	Frequency
Alectinib	600mg	Oral	Twice daily

Treatment is continuous until unacceptable toxicity or disease progression.

Four weeks supply will be issued at each visit.

Extravasation risk:

Not applicable: oral formulation

Issue Date: 6 th May 2020 Review Date: May 2023	Page 1 of 6	Protocol reference: MPHAALECLU	
Author: Tara Callagy	Authorised by: Hele	en Poulter-Clark & Joanne McCaughey	Version No: 1.1

Administration:

Alectinib should be swallowed whole with food. Capsules must not be opened or dissolved.

Drug Interactions

The list below is not exhaustive, consult SPC for further details

- CYP3A4 inducers and inhibitors: no dose adjustment to alectinib is required. Appropriate monitoring is recommended for patients taking concomitant strong CYP3A inhibitors and inducers. Examples include but not limited to carbamazepine, phenobarbital, phenytoin, St John's Wort, rifampicin, ketoconazole, itraconazole, voriconazole, ritonavir. Discuss with pharmacist
- Avoid grapefruit and Seville oranges
- P-gp subtrates: Alectinib has potential to increase plasma concentrations of P-gp substrates (e.g. digoxin, dabigatran, topotecan, sirolimus, everolimus and lapatinib), appropriate monitoring is recommended.
- BRCP substrates: Appropriate monitoring is recommended due to the risk of increased plasma concentrations of BRCP substrates (e.g. methotrexate, mitoxantrone)
- CYP substrates: The effectiveness of concomitant administration of oral contraceptives may be reduced

Main Toxicities:

Constipation, oedema (eyelid, periorbital and peripheral), nausea, myalagia, anaemia and rash were the most common adverse drug reactions. Interstitial lung disease/pneumonitis, hepatotoxicity and bradycardia have been reported in clinical trials- please see "dose modification and toxicity management" for advice.

Issue Date: 6 th May 2020			
Review Date: May 2023	Page 2 of 6	Protocol reference: MPHAALECLU	
Author: Tara Callagy	Authorised by: Hele	en Poulter-Clark & Joanne McCaughey	Version No: 1.1

Investigations and Treatment Plan:

	Pre	Cycle 1	Cycle 1 D15	Cycle 2	Cycle 2 D15	Cycle 3	Cycle 3 D15	Cycle 4	Ongoing
Medical Assessment	Х			х		х		х	Every 3 cycles
Nursing Assessment	Х	Х		Х		Х		Х	Every cycle
FBC	Х	Х	Х	Х	Х	Х	Х	Х	Every cycle
U&E & LFT (including creatine kinase (CK))	x	х	х	х	х	х	х	x	Every cycle
Lipid profile		Х		Х		Х		Х	Can reduce frequency if lipids stabilised
LDH		Х		Х		Х		Х	Every cycle
CT scan	х					Х*			*CT scan to be carried out prior to cycle 3 then every three months or as clinically indicated
ECG	х					x			ECG to be carried out at baseline and then on cycle 3 at medical assessment, then as clinically indicated
Blood pressure and heart rate measurement	х	х		х					Repeat if clinically indicated
Informed Consent	х								
PS recorded	Х	Х	Х	Х	Х	Х	Х	Х	Every cycle
Toxicities documented	Х	Х	Х	Х	Х	Х	Х	Х	Every cycle
Weight recorded	Х	Х	Х	Х	Х	Х	Х	Х	Every cycle

Issue Date: 6 th May 2020 Review Date: May 2023	Page 3 of 6	Protocol reference: MPHAALECLU	
Author: Tara Callagy	Authorised by: Hele	en Poulter-Clark & Joanne McCaughey	Version No: 1.1

Dose Modifications and Toxicity Management:

Management of adverse events may require dose reduction, temporary interruption or discontinuation of treatment with alectinib. The dose of alectinib should be reduced in steps of 150mg twice daily based on tolerability. Alectinib treatment should be permanently discontinued if patients are unable to tolerate the 300mg twice daily dose.

Dose reduction schedule	Dose level
Starting dose	600mg twice daily
First dose reduction	450mg twice daily
Second dose reduction	300mg twice daily

Haematological toxicity

Proceed on day 1 if:

Plt ≥ 100 x 10⁹/L

ANC ≥ 1.0 x 10⁹/L

Hepatic Impairment

No dose adjustment is required in patients with mild hepatic impairment. Alectinib has not been studied in patients with moderate to severe hepatic impairment. Therefore, alectinib is not recommended in patients with moderate to severe hepatic impairment. Please see dose modification table for guidance on ALT/AST/Bilirubin elevation.

Renal Impairment

No dose adjustment is required in patients with mild or moderate renal impairment. Alectinib has not been studied in patients with severe renal impairment. However, since alectinib elimination via the kidney is negligible, no dose adjustment is required in patients with severe renal impairment.

Issue Date: 6 th May 2020 Review Date: May 2023	Page 4 of 6	Protocol reference: MPHAALECLU	
Author: Tara Callagy	Authorised by: Hele	en Poulter-Clark & Joanne McCaughey	Version No: 1.1

Dose modification advice for specific toxicities:

CTCAE Grade	Dose Modification
Interstitial lung disease (ILD) / pneumonitis of any severity grade	ILD should be suspected in patients who develop acute onset of new and/or progressive unexplained pulmonary symptoms such as dyspnoea, cough and fever. Immediately interrupt and permanently discontinue alectinib if no other potential causes of ILD/ pneumonitis have been identified.
ALT or AST elevation of grade ≥ 3 (>5 times upper limit of normal (ULN)) with total bilirubin ≤ 2 times ULN	Temporarily withhold until recovery to baseline or \leq grade 1 (\leq 3 times ULN), then resume at reduced dose
ALT or AST elevation of grade ≥ 2 (> 3 times ULN) with total bilirubin elevation > 2 times ULN in the absence of cholestasis or haemolysis	Permanently discontinue alectinib
Bradycardia (heart rate less than 60 beats per minute) grade 2 or 3 (symptomatic, may be severe and medically significant, medical intervention indicated)	Temporarily withhold until recovery to \leq grade 1 (asymptomatic) bradycardia or to a heart rate of \geq 60 bpm. Evaluate concomitant medicinal products known to cause bradycardia, as well as anti- hypertensive medicinal products. If a contributing concomitant medicinal product is identified and discontinued, or its dose is adjusted, resume at previous dose upon recovery to \leq Grade 1 (asymptomatic) bradycardia or to a heart rate of \geq 60 bpm. If no contributing concomitant medicinal product is identified, or if contributing concomitant medicinal products are not discontinued or dose modified, resume at reduced dose (see Table 1) upon recovery to \leq Grade 1 (asymptomatic) bradycardia or to a heart rate of \geq 60

Issue Date: 6 th May 2020 Review Date: May 2023	Page 5 of 6	Protocol reference: MPHAALECLU	
Author: Tara Callagy	Authorised by: Hele	n Poulter-Clark & Joanne McCaughey	Version No: 1.1

Bradycardia (heart rate less than 60 beats per minute) grade 4 (life-threatening consequences, urgent intervention indicated)	Permanently discontinue if no contributing concomitant medicinal product is identified. If a contributing concomitant medicinal product is identified and discontinued, or its dose is adjusted, resume at reduced dose upon recovery to \leq Grade 1 (asymptomatic) bradycardia or to a heart rate of \geq 60 bpm, with frequent monitoring as clinically indicated. Permanently discontinue in case of recurrence.
CK elevation > 5 times ULN	Temporarily withhold until recovery to baseline or to \leq 2.5 times ULN, then resume at the same dose.
CK elevation > 10 times ULN or second occurrence of CK elevation of > 5 times ULN	Temporarily withhold until recovery to baseline or to \leq 2.5 times ULN, then resume at reduced dose.

Additional Information

Photosensitivity to sunlight has been reported with alectinib administration. Patients should be advised to avoid prolonged sun exposure while taking alectinib, and for at least 7 days after discontinuation of treatment. Patients should also be advised to use a broad-spectrum Ultraviolet A (UVA)/ Ultraviolet B (UVB) sun screen and lip balm (SPF ≥50) to help protect against potential sunburn.

References:

- SPC available via: <u>https://www.medicines.org.uk/emc/</u>
- NICE TA Alectinib for untreated anaplastic lymphoma kinase-positive advanced nonsmall-cell lung cancer

Issue Date: 6 th May 2020 Review Date: May 2023	Page 6 of 6	Protocol reference: MPHAALECLU	
Author: Tara Callagy	Authorised by: Hele	n Poulter-Clark & Joanne McCaughey	Version No: 1.1