

Indication	<ul style="list-style-type: none"> 1st or subsequent line systemic therapy for ROS1-positive inoperable locally advanced/metastatic non squamous non-small cell lung cancer. The 1st line treatment of ALK +ve advanced or metastatic non-small cell lung cancer where the commissioning criteria are met. 2nd and subsequent line treatment of ALK +ve advanced or metastatic non-small cell lung cancer where the commissioning criteria are met.
Treatment Intent	Palliative
Frequency and number of cycles	Repeat every 28 days Continuous until disease progression or unacceptable toxicity.
Monitoring parameters pre-treatment	<ul style="list-style-type: none"> Monitor FBC and U&Es prior to each cycle. Monitor LFTs once a week for the first 2 months of treatment then once a month and as clinically indicated. If neuts <1.0 and/or PLT <50 d/w consultant Monitor pulse and BP prior to each cycle or as clinically indicated. Hepatic impairment: Crizotinib should be used with caution in patients with hepatic impairment. The recommended starting dose for patients with moderate hepatic impairment (any AST and total bilirubin >1.5 × ULN and ≤3 × ULN) is 200 mg twice daily. The recommended starting dose for patients with severe hepatic impairment (any AST and total bilirubin >3 × ULN) is 250 mg once daily. Renal impairment: No dose reduction if CrCl ≥ 30ml/min. If CrCl <30ml/min recommended dose reduction to 250 mg once daily in patients not requiring peritoneal dialysis or haemodialysis. The dose may be increased to 200 mg twice daily based on individual safety and tolerability after at least 4 weeks of treatment. If dose reduction is necessary, reduce to 200 mg twice daily. If further dose reduction is necessary, then the dose should be modified to 250 mg once daily. Dose modifications in haematological toxicities (except lymphopenia unless associated with clinical events such as opportunistic infection): Grade 3: withhold until recovery to Grade ≤2, then resume at the same dose schedule. Grade 4: withhold until recovery to Grade ≤2, then resume at 200 mg twice daily. In case of recurrence, dosing should be withheld until recovery to Grade ≤2, then dosing should be resumed at 250 mg once daily. Crizotinib must be permanently discontinued in case of further Grade 4 recurrence. Dose modifications in non-haematological toxicities: see table 1 below Crizotinib has been associated with life-threatening ILD / pneumonitis. Patients with pulmonary symptoms indicative of ILD / pneumonitis should be monitored and treatment permanently discontinued if diagnosis is treatment related. Crizotinib should be administered with caution to patients who have a history of or predisposition for QTc prolongation, or who are taking medicinal products that are known to prolong the QT interval. ECG, electrolytes and renal function should be undertaken as clinically indicated. Electrolytes should be corrected Crizotinib should be used with caution in patients at risk for gastrointestinal perforation. Crizotinib should be discontinued in patients who develop gastrointestinal perforation. Missed doses: If a dose is missed, patients should take as soon as possible unless it is less than 6 hours until the next dose, in which case the patient should not take the missed dose. Patients should not take 2 doses at the same time to make up for a missed dose. Drug interactions: Avoid concomitant treatment with potent CYP3A inhibitors (e.g. ketoconazole, itraconazole, clarithromycin, erythromycin, grapefruit juice) or inducers (e.g. rifampicin, dexamethasone, phenytoin, carbamazepine and St John's wort) or CYP3A4 substrates with narrow therapeutic indices. Avoid using in combination with other bradycardic agents (e.g. beta-blockers, non-dihydropyridine calcium channel blockers such as verapamil and diltiazem, clonidine, digoxin), medicinal products that are known to prolong QT interval and/or antiarrhythmics. - see SPC for a full list of drug interactions. For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and supply Patient Information Leaflet and Cancerbackup information sheet
Reference(s)	SpC, accessed online 13/7/18

NB For funding information, refer to the SACT funding spreadsheet

Protocol No	LUN-027	Kent and Medway SACT Protocol Disclaimer: No responsibility will be accepted for the accuracy of this information when used elsewhere.
Version	5	Written by C Waters
Supersedes version	V4 of KMCC prescribing proforma	Checked by B Willis
Date	21/8/18	Authorising consultant (usually NOG Chair) M Cominos

Repeat every 28 days

TTO	Drug	Dose	Route	Directions
1	Crizotinib	250mg	po	twice daily taken continuously. Swallow whole with a glass of water. Do not take with grapefruit juice. Available as 200mg and 250mg capsules in a pack size of 60
	Metoclopramide	10mg	po	tds when required (dispense 28 tablets on cycle 1, then only if specified). Do not take for more than 5 days continuously.

Table 1. Crizotinib dose modification – non-haematological toxicities

CTCAE Grade	Crizotinib treatment
Grade 3 or 4 alanine aminotransferase (ALT) or aspartate aminotransferase (AST) elevation with Grade ≤1 total bilirubin	Withhold until recovery to Grade ≤1 or baseline, then resume at 250 mg once daily and escalate to 200 mg twice daily if clinically tolerated. Discontinue in case of further Grade ≥3 recurrence.
Grade 2, 3 or 4 ALT or AST elevation with concurrent Grade 2, 3 or 4 total bilirubin elevation (in the absence of cholestasis or haemolysis)	Permanently discontinue
Any Grade interstitial lung disease (ILD)/pneumonitis	Withhold if ILD/pneumonitis is suspected, and permanently discontinue if treatment-related ILD/pneumonitis is diagnosed ^c
Grade 3 QTc prolongation	Withhold until recovery to Grade ≤1, check and if necessary correct electrolytes, then resume at 200 mg twice daily. Discontinue in case of further Grade ≥3 recurrence.
Grade 4 QTc prolongation	Permanently discontinue
Grade 2, 3 Bradycardia (Heart rate less than 60 beats per minute (bpm)). Symptomatic, may be severe and medically significant, medical intervention indicated	Withhold until recovery to Grade ≤1 or to heart rate 60 or above Evaluate concomitant medicinal products known to cause bradycardia, as well as anti-hypertensive medicinal products If contributing concomitant medicinal product is identified and discontinued, or its dose is adjusted, resume at previous dose upon recovery to Grade ≤1 or to heart rate 60 or above If no contributing concomitant medicinal product is identified, or if contributing concomitant medicinal products are not discontinued or dose modified, resume at reduced dose upon recovery to Grade ≤1 or to heart rate 60 or above
Grade 4 Bradycardia (Heart rate less than 60 beats per minute (bpm)). Life-threatening consequences, urgent intervention indicated	Permanently discontinue if no contributing concomitant medicinal product is identified If contributing concomitant medicinal product is identified and discontinued, or its dose is adjusted, resume at 250 mg once daily upon recovery to Grade ≤1 or to heart rate 60 or above, with frequent monitoring. Permanently discontinue in case of recurrence.
Grade 4 Ocular Disorder (Visual Loss)	Discontinue during evaluation of severe vision loss

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