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wonotherapy for the treatment of anaphastic kympoma kinase (ALK)-positive advanced (stage illus or IV) non-small cell lung cancer (NSCLC) previously treated with: * 1st line alectinib or 1st line ceritinib or 1³ line brigatinib; or * 1st line crizotinib followed by a 2nd line ALK tyrosine kinase inhibitor therapy (brigatinib or ceritinib) or after disease progression during adjuvant alectinib or within 6 months of completion of adjuvant alectinib. First line monotherapy for the treatment of ALK-positive locally advanced or metastatic NSCLC previously untreated with an ALK inhibitor. Patients must have not previously received any ALK inhibitor for advanced NSCLC unless 1st line treatment with alectinib, brigatinib, ceritinib or crizotinib has had to be stopped within 6 months of its start solely as a consequence of dose-limiting toxicity and in the clear absence of disease progression or the patient was treated with adjuvant alectinib and had disease progression more than 6 months after completing treatment with adjuvant alectinib. Note: the only previous cytotoxic treatment allowed for patients to be treated with 1st line loriatinib is adjuvant or neoadjuvant chemotherapy or chemotherapy given concurrently with radiotherapy. Treatment Intent Prequency and number of cycles Continue until disease progression or excessive toxicity or patient choice to discontinue treatment. Should be screened for hepatitis 8 and C. Further virology screening will be performed following individual risk assessment and clinician discretion. **PRO_LETS and URSE baseline and at each cycle. **Monitoring of serum cholesterol and triglycerides should be done before treatment, should also be screened for hepatitis 8 and C. Further virology screening will be performed following individual risk assessment and clinician discretion, if indicated. Where appropriate initiate or increase the dose of lipid-lowering medicinal products. **Patients should be monitored for lipase and amylase elevations prior to the start of treatment and	Indication	Manatharany for the treatment of analystic lumphoma kinese (ALK) positive advanced
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Supersedes	V3	Checked by	C.Waters V3 / V4	
version			E.Parry V2	
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Date	28.10.2025	Authorising consultant (usually NOG Chair)	T.Sevitt V2	

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- **BP** before treatment, on day 14 of cycle 1 and at each cycle thereafter. Dose interruption/modification maybe required see table 1.
- Confirm the patient either has no brain metastases or, if the patient has brain metastases, the patient is symptomatically stable prior to starting lorlatinib.
- Hepatic Impairment: No dose adjustments are recommended for patients with mild hepatic impairment. No data is available to make a recommendation in patients with moderate or severe hepatic impairment (AST / ALT >2.5 x ULN, or if due to malignancy >5.0 x ULN or with bilirubin > 1.5 x ULN).
- Renal Impairment: No dose adjustment required in mild or moderate (CrCl >/= 30ml/min) renal impairment. A reduced starting dose of 75mg OD is recommended in patients with severe renal impairment (absolute CrCl < 30 mL/min). No information is available for patients on renal dialysis.
- Dose modification and adverse reactions:
- Dosing interruption or dose reduction may be required based on individual safety and tolerability. First dose reduction: 75 mg taken orally once daily. Second dose reduction: 50 mg taken orally once daily
- Lorlatinib should be permanently discontinued if the patient is unable to tolerate the 50 mg dose taken orally once daily.
- See table 1 for dose modifications for adverse effects (including central nervous system (CNS) reactions, PR interval prolongation and AV block, interstitial lung disease (ILD)/Pneumonitis, Hypercholesterolaemia or hypertriglyceridaemia, Lipase/Amylase increase, hypertension and hyperglycaemia).
- Visual disturbance adverse reactions have occurred in patients treated with lorlatinib.
 Patients should be advised to report any visual symptoms. For new or worsening severe visual symptoms, an ophthalmologic evaluation and dose reduction should be considered.
- Interstitial lung disease/Pneumonitis: Severe and life threatening pulmonary adverse reactions have been reported including ILD/pneumonitis. Patients should be advised to report any new or worsening respiratory symptoms. If pneumonitis is suspected treatment should be withheld and/or permanently discontinued based on severity (see table 1).
- Common drug interactions: (for comprehensive list refer to BNF/SPC)
- Concurrent use with strong CYP3A4/5 inhibitors (e.g. ketoconazole, itraconazole, clarithromycin) should be avoided. If a strong CYP3A4/5 inhibitor <u>must</u> be
- co-administered, the starting dose should be <u>reduced to 75 mg once daily</u>. If
 concurrent use of the strong CYP3A4/5 inhibitor is discontinued, lorlatinib should be
 resumed at the dose used prior to the initiation of the strong CYP3A4/5 inhibitor and
 after a washout period of 3 to 5 half-lives of the strong CYP3A4/5 inhibitor. Grapefruit
 juice should be avoided.
- Concomitant use with strong CYP3A4/5 inducers (e.g. phenytoin, rifampicin, carbamazepine, phenobarbital, St John's Wort) is contraindicated and should be discontinued 3 plasma half-lives prior to initiating lorlatinib.
- Caution with CYP3A4/5 substrates with a narrow therapeutic index (e.g. Ciclosporin, fentanyl, tacrolimus, and hormonal contraceptives); the concentration of these medicinal products may be reduced by lorlatinib.
- Lorlatinib should be used with caution with the following groups of medicines;
 CYP2C9, UGT and P-gp substrates. Patients should be closely monitored if receiving concomitant therapy with a narrow therapeutic index.

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	Missad dags if a dags is using a thought be talled a same as the matient
	Missed dose: If a dose is missed, then it should be taken as soon as the patient
	remembers unless it is less than 4 hours before the next dose, in which case the
	patient should not take the missed dose.
	Contraception: A highly effective non-hormonal method of contraception should be used for female patients (see SPC and interactions), continuing until at least 35 days.
	after completing treatment. Male patients with female partners who are of
	childbearing age or pregnant must use a condom and where applicable other
	contraceptives during treatment and for at least 14 weeks after last dose.
	Driving and Machinery: Patients should be advised that lorlatinib can have an effect
	on their ability to drive and use machines.
	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 LUN-044 V3 SPC accessed online 14.10.2025 CDF list V1.375 accessed online
	14.10.2025

 $\ensuremath{\mathsf{NB}}$ For funding information, refer to CDF and NICE Drugs Funding List

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Table 1. Recommended Iorlatinib dose modifications for adverse	reactions			
Adverse reaction ^a	Lorlatinib dosing			
Hypercholesterolaemia or hypertriglyceridaemia	Lonatinib dosnig			
Mild hypercholesterolaemia (cholesterol between ULN and 300 mg/dL or between ULN and 7.75 mmol/L) OR Moderate hypercholesterolaemia (cholesterol between 301 and 400 mg/dL or between 7.76 and 10.34 mmol/L) OR Mild hypertriglyceridaemia (triglycerides between 150 and 300 mg/dL or 1.71 and 3.42 mmol/L) OR Moderate hypertriglyceridaemia (triglycerides between 301 and 500 mg/dL or 3.43 and 5.7 mmol/L) Severe hypercholesterolaemia	Introduce or modify lipid-lowering therapy ^b in accordance with respective prescribing information; continue lorlatinib at same dose.			
(cholesterol between 401 and 500 mg/dL or between 10.35 and 12.92 mmol/L) OR Severe hypertriglyceridaemia (triglycerides between 501 and 1,000 mg/dL or 5.71 and 11.4 mmol/L)	Introduce the use of lipid-lowering therapy; ^b if currently on lipid-lowering therapy, increase the dose of this therapy ^b in accordance with respective prescribing information; or change to a new lipid-lowering therapy ^b . Continue lorlatinib at the same dose without interruption.			
Life-threatening hypercholesterolaemia (cholesterol over 500 mg/dL or over 12.92 mmol/L) OR Life-threatening hypertriglyceridaemia (triglycerides over 1,000 mg/dL or over 11.4 mmol/L)	Introduce the use of lipid-lowering therapy ^b or increase the dose of this therapy ^b in accordance with respective prescribing information or change to a new lipid-lowering therapy ^b . Withhold lorlatinib until recovery of hypercholesterolaemia and/or hypertriglyceridaemia to moderate or mild severity grade. Re-challenge at same lorlatinib dose while maximising lipid-lowering therapy ^b in accordance with respective prescribing information. If severe hypercholesterolaemia and/or hypertriglyceridaemia recur despite maximal lipid-lowering therapy ^b in accordance with respective prescribing information, reduce lorlatinib by 1 dose level.			
Central nervous system effects (comprises psychotic effects and c	hanges in cognition, mood, mental state or speech)			
Grade 2: Moderate OR Grade 3: Severe	Withhold dose until toxicity is less than or equal to Grade 1. Then resume lorlatinib at 1 reduced dose level.			
Grade 4: Life-threatening/Urgent intervention indicated	Permanently discontinue lorlatinib.			
Lipase/Amylase increase Grade 3: Severe OR	Withhold lorlatinib until lipase or amylase returns to baseline. Then resume lorlatinib at 1			
Grade 4: Life-threatening/Urgent intervention indicated	reduced dose level.			
Interstitial lung disease (ILD)/Pneumonitis				
Grade 1: Mild <u>OR</u> Grade 2: Moderate	Withhold lorlatinib until symptoms have returned to baseline and consider initiating corticosteroids. Resume lorlatinib at 1 reduced dose level. Permanently discontinue lorlatinib if ILD/pneumonitis recurs or fails to recover after 6 weeks of lorlatinib hold and steroid treatment.			
Grade 3: Severe OR Grade 4: Life-threatening/Urgent intervention indicated	Permanently discontinue lorlatinib.			
PR interval prolongation/Atrioventricular (AV) block				
First degree AV block: Asymptomatic	Continue lorlatinib at the same dose without interruption. Consider effects of concomitant medicinal products, and assess and correct electrolyte imbalance that may prolong PR interval. Monitor ECG/symptoms potentially related to AV block closely.			
First degree AV block: Symptomatic	Withhold lorlatinib. Consider effects of concomitant medicinal products, and assess and correct electrolyte imbalance that may prolong PR interval. Monitor ECG/symptoms potentially related to AV block closely. If symptoms resolve, resume lorlatinib at 1 reduced dose level.			
Second degree AV block Asymptomatic	Withhold lorlatinib. Consider effects of concomitant medicinal products, and assess and correct electrolyte imbalance that may prolong PR interval. Monitor ECG/symptoms potentially related to AV block closely. If subsequent ECG does not show second degree AV block, resume lorlatinib at 1 reduced dose level.			

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PR interval prolongation/Atrioventricular (AV) block (continued)	
Second degree AV block Symptomatic	Withhold Iorlatinib. Consider effects of concomitant medicinal products, and assess and correct electrolyte imbalance that may prolong PR interval. Refer for cardiac observation and monitoring. Consider pacemaker placement if symptomatic AV block persists. If symptoms and the second degree AV block resolve or if patients revert to asymptomatic first degree AV block, resume Iorlatinib at 1 reduced dose level.
Complete AV block	Withhold lorlatinib. Consider effects of concomitant medicinal products, and assess and correct electrolyte imbalance that may prolong PR interval. Refer for cardiac observation and monitoring. Pacemaker placement may be indicated for severe symptoms associated with AV block. If AV block does not resolve, placement of a permanent pacemaker may be considered. If pacemaker placed, resume lorlatinib at full dose. If no pacemaker placed, resume lorlatinib at 1 reduced dose level only when symptoms resolve and PR interval is less than 200 msec.
Hypertension	
Grade 3 (SBP greater than or equal to 160 mmHg or DBP greater than or equal to 100 mmHg; medical intervention indicated; more than one antihypertensive drug, or more intensive therapy than previously used indicated)	Withhold Iorlatinib until hypertension has recovered to Grade 1 or less (SBP less than 140 mmHg and DBP less than 90 mmHg), then resume Iorlatinib at the same dose. If Grade 3 hypertension recurs, withhold Iorlatinib until recovery to Grade 1 or less, and resume at a reduced dose. If adequate hypertension control cannot be achieved with optimal medical management, permanently discontinue Iorlatinib.
Grade 4 (Life-threatening consequences, urgent intervention indicated)	Withhold lorlatinib until recovery to Grade 1 or less, and resume at a reduced dose or permanently discontinue lorlatinib.
	If Grade 4 hypertension recurs, permanently discontinue lorlatinib.
Hyperglycaemia	
Grade 3 (greater than 250 mg/dL despite optimal anti- hyperglycaemic therapy)	Withhold lorlatinib until hyperglycaemia is adequately controlled, then resume lorlatinib at the next lower dose.
OR Grade 4	If adequate hyperglycaemic control cannot be achieved with optimal medical management, permanently discontinue lorlatinib.
Other adverse reactions	
Grade 1: Mild OR Grade 2: Moderate	Consider no dose modification or reduce by 1 dose level, as clinically indicated.
Greater than or equal to Grade 3: Severe	Withhold lorlatinib until symptoms resolve to less than or equal to Grade 2 or baseline. Then resume lorlatinib at 1 reduced dose level.
^a Grade categories are based on NCI CTCAE classifications. ^b Lipid-lowering therapy may include: HMG CoA reductase inhibitor	, nicotinic acid, fibric acid derivatives, or ethyl esters of omega-3 fatty acids.

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Repeat every 28 days.

TTO	Drug	Dose	Route	Directions
Day 1				OD at the same time every day.
	LORLATINIB	100mg	РО	The tablets should be swallowed whole (tablets should not be chewed, crushed or split prior to swallowing). Avoid grapefruit juice.
				Available as 25mg and 100mg tablets. Dispense 30 days supply
	Metoclopramide	10mg	РО	10mg up to three times a day PRN. Do not take for more than 5 days continuously. Dispense on Cycle 1 only, then only as required.
	Loperamide	2mg	РО	Take two capsules (4mg) after first loose stool, then one capsule (2mg) after each loose stool when required. (Maximum 16mg per day). Dispense on Cycle 1 only, then only as required.

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