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Indication	For the treatment of NTRK fusion-positive solid tumours if:
	 the disease is locally advanced or metastatic or surgery could cause severe
	health problems and
	they have not had an NTRK-inhibitor before and
	they have no satisfactory treatment options.
	For the treatment of ROS1-positive recurrent, locally advanced or metastatic non-small cell
	lung cancer (NSCLC) previously untreated with a ROS1 inhibitor.
Treatment	Palliative
Intent	
Frequency and	Repeat every 28 days
number of	Continuous until disease progression or unacceptable toxicity or patient choice or (where
cycles	applicable) potentially curative surgery takes place.
	NB: A formal medical review should be scheduled to occur by the start of the second cycle
	(month) of treatment.
Monitoring	Virology screening: All new patients referred for systemic anti-cancer treatment should
Parameters	be screened for hepatitis B and C and the result reviewed prior to the start of
pre-treatment	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.
	• FBC, U&Es (including Mg ²⁺ and Ca ²⁺) and LFTs at each cycle.
	Uric acid should be monitored prior to treatment then as clinically indicated
	• ECG at baseline and prior to cycle 2 and then monitor periodically throughout treatment
	as clinically indicated. Avoid entrectinib in patients with a baseline QTc interval longer
	than 450 ms, in patients with congenital long QTc syndrome, and avoid (or use caution
	and undertake regular ECGs) in patients taking medicinal products that are known to
	prolong the QTc interval.
	• In patients with known cardiac risk factors undertake ECHO / MUGA prior to treatment
	and as clinically indicated throughout treatment. Avoid in patients with electrolyte
	imbalances or significant cardiac disease, including recent myocardial infarction,
	congestive heart failure, unstable angina, and bradyarrhythmias.
	• For NTRK fusion-positive indication: A PET/CT/MR scan of index assessable/measurable
	disease must be done prior to commencing entrectinib and repeated 10 weeks after the
	start of treatment (if not indicated before 10 weeks on account of assessing risk of
	disease progression).
	Hepatic Impairment: No dose adjustment is recommended in hepatic impairment.
	Patients with severe hepatic impairment (Child-Pugh C) should be closely monitored.
	Renal Impairment: No dose adjustment required in mild or moderate (CrCl >/=
	30ml/min) renal impairment. Not recommended in patients with severe renal
	impairment (CrCl <30ml/min) as data is too limited.
	Dose modification: Dosing interruption or dose reduction may be required based on
	individual safety and tolerability. First dose reduction: 400mg taken orally once daily.
	Second dose reduction: 200 mg taken orally once daily
	Entrectinib should be permanently discontinued if the patient is unable to tolerate
	200mg po od.
	 See table 1 for dose modifications for adverse effects.
	Common drug interactions: (for comprehensive list refer to BNF/SPC)
	 Avoid concurrent use with moderate or strong CYP3A inhibitors (ketoconazole,
	itraconazole, clarithromycin, and voriconazole) . If co-administration cannot be
	avoided, reduce entrectinib to 200mg once daily with moderate CYP3A inhibitors
	and 100mg once daily with strong CYP3A inhibitors and limit the use of the CYP3A
	inhibitor to 14 days. After discontinuation of a strong or moderate CYP3A inhibitor,
No MULTI-019	Kent and Medway SACT Protocol
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Protocol No	MULTI-019	Kent and Medway SACT Protocol Disclaimer: No responsibility will be accepted for the accuracy of this information when used elsewhere.		
Version	V2	Written by	M.Archer	
Supersedes	V1	Checked by	C.Waters (V2)	
version			B.Willis (V1)	
			V2 updated in line with SPC change	
Date	09.11.2023	Authorising consultant (usually NOG Chair)	R.Shah (V1)	

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resume the dose that was taken prior to initiating the CYP3A inhibitor. A wash-out period of 3 to 5 elimination half -lives may be required for CYP3A inhibitors with a long half-life. Concomitant use with strong or moderate CYP3A inducers (e.g. phenytoin, rifampicin, carbamazepine, phenobarbital, St John's Wort) should be avoided. Patients should not drink grapefruit juice or eat grapefruit or Seville oranges whilst taking entrectinib. Entrectinib is a weak inhibitor of CYP3A4; caution when entrectinib is administered together with CYP3A4 substrates with a narrow therapeutic range (e.g., cisapride, cyclosporin, ergotamine, fentanyl, pimozide, quinidine, tacrolimus, alfentanil and sirolimus). **Adverse reactions:** Cognitive disorders including confusion, mental status changes, memory impairment and hallucinations can occur. Withhold and then resume at same or reduced dose upon improvement or permanently discontinue depending on Bone fractures: There is an increased risk of fracture whilst taking entrectinib, not always related to trauma. Patients should be advised to report pain, changes in movement, or bone abnormalities. Patients should be monitored for signs of hyperuricaemia and congestive heart failure. Missed dose: If a dose is missed, then it should be taken as soon as the patient remembers unless it is less than 12 hours before the next dose, in which case the patient should not take the missed dose. If a patient vomits immediately after taking a dose, instruct patients to repeat that dose.

Patients should be advised that entrectinib can have an effect on their ability to drive

supply Patient Information Leaflet and Macmillan information sheet.

KMCC protocol MULTI-019 V1 SPC accessed online 04.09.2023

For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and

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

and use machines.

References

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Table 1 Recommended Dosage Modifications for adverse reactions

Adverse reaction	Severity*	Dosage modification	
Congestive heart	Symptomatic with middle to moderate activity or exertion, including where intervention is indicated (Grade 2 or 3)	 Withhold Entrectinib until recovered to less than or equal to Grade 1 Resume at reduced dose 	
failure	Severe with symptoms at rest, minimal activity, or exertion or where intervention is indicated (Grade 4)	 Withhold Entrectinib until recovered to less than or equal to Grade 1 Resume at reduced dose or discontinue as clinically appropriate 	
	Intolerable, but moderate changes interfering with activities of daily living (Intolerable Grade 2)	Withhold Entrectinib until recovery to less than or equal to Grade 1 or to baseline Resume at same dose or reduced dose, as clinically needed	
Cognitive disorders	Severe changes limiting activities of daily living (Grade 3)	 Withhold Entrectinib until recovery to less than or equal to Grade 1 or to baseline Resume at reduced dose 	
	Urgent intervention indicated for event (Grade 4)	For prolonged, severe, or intolerable events, discontinue Entrectinib as clinically appropriate	
Hyperuricemia Symptomatic or Grade 4		 Initiate urate-lowering medication Withhold Entrectinib until improvement of signs or symptoms Resume Entrectinib at same or reduced dose 	
	QTc 481 to 500 ms	Withhold Entrectinib until recovered to baseline Resume treatment at same dose	
QT interval prolongation	QTc greater than 500 ms	 Withhold Entrectinib until QTc interval recovers to baseline Resume at same dose if factors that cause QT prolongation are identified and corrected Resume at reduced dose if other factors that cause QT prolongation are <u>not</u> identified 	
-	Torsade de pointes; polymorphic ventricular tachycardia; signs/symptoms of serious arrhythmia	Permanently discontinue Entrectinib	
Transaminase elevations	Grade 3 (> 5 – 20 x ULN)	 Withhold Entrectinib until recovery to less than or equal to Grade 1 or to baseline Resume at same dose if resolution occurs within 4 weeks Permanently discontinue if adverse reaction does not resolve within 4 weeks Resume at a reduced dose for recurrent Grade 3 events that resolve within 4 weeks 	
col No MULTI-019	Grade 4 (> 20 x ULN) Kent and Medway SACT Pro	Withhold Entrectinib until recovery to less than or equal to Grade 1 or to baseline Resume at reduced dose if resolution occurs within 4 weeks	

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		 Permanently discontinue if adverse reaction does not resolve within 4 weeks Permanently discontinue for recurrent Grade 4 events
	ALT or AST > 3 times ULN with concurrent total bilirubin > 2 times ULN (in the absence of cholestasis or haemolysis)	Permanently discontinue Entrectinib
Anaemia or neutropenia	Grade 3 or 4 (Neuts < 1 x 10 ⁹ /l or Hb < 80g/l)	 Withhold Entrectinib until recovery to less than or equal to Grade 2 or to baseline Resume at the same dose or reduced dose, as clinically needed
Other clinically relevant adverse reactions	Grade 3 or 4	 Withhold Entrectinib until adverse reaction resolves or improves to recovery or improvement to Grade 1 or baseline Resume at the same or reduced dose, if resolution occurs within 4 weeks Consider permanent discontinuation if adverse reaction does not resolve within 4 weeks Permanently discontinue for recurrent Grade 4 events

^{*} Severity as defined by National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.0

Repeat every 28 days

Day	Drug	Dose	Route	Administration
Day 1	ay 1			OD
				Swallow capsules whole. Do not open, crush, chew, or
	ENTRECTINIB	600mg	PO	dissolve the contents of the capsule.
				Available as 100mg and 200mg capsules
				10mg up to three times a day PRN.
	Metoclopramide	10mg		Do not take for more than 5 days continuously.
				Dispense on Cycle 1 only, then only if required.
				Take two capsules (4mg) after first loose stool, then one
				capsule (2mg) after each loose stool when required.
	Loperamide	2mg	PO	(Maximum 16mg per day).
				Dispense on Cycle 1 only, then only if required.

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