Indicatio	n	Monotherapy for the treatment of BRAF V600 mutation-positive unresectable or metastatic			
		melanoma.			
Treatme	nt	Palliative			
Intent	<u> </u>				
Frequence number of	cy and of	Repeat every 28 days			
cycles		Continuous until progression of disease or unacceptable toxicity.			
Monitori	ng	• Virology screening: All new patients referred for systemic anti-cancer treatment should be			
Parameto pre-treat	ers ment	screened for hepatitis B and C and the result reviewed prior to the start of treatment. Patients no previously tested who are starting a new line of treatment, should also be screened for hepatitis and C. Further virology screening will be performed following individual risk assessment and clinician discretion.			
		• Monitor FBC, LFT's and U&E's prior to each cycle for 3 months, then every 3 months thereafter.			
		• Electrocardiogram (ECG) and electrolytes (including magnesium) must be monitored in all patients before treatment, after one month of treatment and after any dose modification. Patients with moderate to severe hepatic impairment should have monthly ECGs for the first 3 months of treatment.			
		• A chest CT should be perfomed prior to treatment and every 6 months during treatment.			
	 Cases of Cutaneous Squamous Cell Carcinoma (cuSCC) and Non-Cutaneous Squamous Carcinoma (non-cuSCC) have been reported in patients receiving vemurafenib. All patient undergo dermatologic evaluation prior to initiation of therapy and be monitored routin on therapy and for 6 months after. Any suspicious skin lesions should be excised, sent dermatopathologic evaluation and treated as per local standard of care. 				
		• Hepatic impairment: Patients with moderate to severe hepatic impairment should be closely			
		 Renal impairment: Patients with severe renal impairment should be closely monitored, d/w consultant. 			
		Management of adverse reactions and dose adjustments:			
		• Patients should avoid sun exposure and use SPF 30 or higher as routine. If dermatological side effects occur d/w consultant. In patients who experience a severe dermatologic reaction, vemurafenib treatment should be permanently discontinued.			
		 Serious ophthalmologic reactions, including uveitis, iritis and retinal vein occlusion, have been reported. Monitor patients routinely for ophthalmologic reactions. 			
	 Vemurafenib can cause prolongation of the QT interval. Management of QT prolongation of the QT interval. Management of QT prolongation require specific monitoring measures - see dose modification table 1. Use in patients uncorrectable electrolyte abnormalities (including magnesium) or long QT syndrome other medicines that lead to QT prolongation (e.g. amiodarone, sotalol, clarithromyc chloroquine) is not recommended. Dose Modification: See table 1 and table 2. 				
		<u>Common drug interactions (for comprehensive list refer to BNF/SPC)</u> :			
	• Avoid concomitant treatment with potent CYP3A4 inhibitors (e.g. ketoconazole, itraconazole, clarithromycin, erythromycin) or inducers (e.g. rifampicin, dexamethasone, phenytoin, St. John's Wort, carbamazepine).				
		• Patients on warfarin should be closely monitored (INR).			
		 Concomitant use of vemurafenib with agents metabolized by CYP1A2 with narrow therapeutic windows (e.g. agomelatine, alosetron, duloxetine, melatonin, ramelteon, tacrine, tizanidine, theophylline) is not recommended. If co-administration cannot be avoided, exercise caution, as vemurafenib may increase plasma exposure of CYP1A2 substrate drugs. Dose reduction of the concomitant CYP1A2 substrate drug may be considered, if clinically indicated. Concomitant use of vemurafenib with agents metabolized by CYP3A4 with parrow therapeutic 			
		windows (e.g. amiodarone, carbamazepine, ciclosporin, aminophylline) is not recommended.			
Proto	col No	SKI-003 Kent and Medway SACT Protocol Disclaimer: No responsibility will be accepted for the accuracy of this information when used elsewhere.			

M.Archer

C.Waters

B.Willis

R.Parker

Version

version

Date

Supersedes

V5

V4

19.02.2024

Written by

Checked by

Authorising consultant (usually NOG Chair)

	 If co-administration cannot be avoided, it needs to be considered that vemurafenib may decrease plasma concentrations of CYP3A4 substrates and thereby their efficacy may be impaired. Dose adjustments for CYP3A4 substrates with narrow therapeutic window may be considered, if clinically indicated. The efficacy of contraceptive pills metabolised by CYP3A4 may be decreased. Due to the long half-life of vemurafenib, the full inhibitory effect of vemurafenib on a concomitant medicinal product might not be observed before 8 days of vemurafenib treatment. After cessation of vemurafenib treatment, a washout of 8 days might be necessary to avoid an interaction with a subsequent treatment Caution should be exercised when dosing vemurafenib concurrently with P-gp substrates (e.g. colchicine, dabigatran etexilate, aliskiren, digoxin, posaconazole); additional drug level monitoring and dose reduction of the concomitant medicinal product may be considered, if clinically indicated. 		
	 Driving: Patients should be aware that vemurafenib may affect their ability to drive or operate machinery. 		
	 Missed dose: If a dose is missed, it can be taken up to 4 hours prior to the next dose, otherwise the dose should be omitted. In case of vomiting after vemurafenib dose the patient should not take an additional dose and the next dose taken as scheduled. For oral self-administration: refer to local Trust policy on oral anti-cancer medicines and supply Patient Information Leaflet. 		
Poforoncos	KMCC proforms SKI-002 VA SPC accessed online 14.06.2023		
References	NVICC Protornia SKI-005 V4 SPC accessed online 14.06.2023		

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

Grade	Recommended dose modification
Grade 1 or Grade 2 (tolerable)	Maintain dose of 960 mg twice daily.
1 st occurrence of any Grade 2 (intolerable) or Grade 3	Interrupt treatment until grade 0 – 1. Resume dosing at 720mg twice daily (or 480 mg twice daily if the dose has already been lowered).
2 nd occurrence of any grade 2 or 3 or persistence after treatment interruption	Interrupt treatment until grade $0 - 1$. Resume dosing at 480mg twice daily (or discontinue permanently if the dose has already been lowered to 480mg twice daily).
3 rd occurrence of any grade 2 or 3 or persistence after 2 nd dose reduction	Discontinue permanently.
1 st occurrence of any grade 4	Discontinue permanently or interrupt vemurafenib treatment until grade $0 - 1$. Resume dosing at 480mg twice daily (or discontinue permanently if the dose has already been lowered to 480mg twice daily).
2 nd occurrence of any grade 4 or persistence of any grade 4 after 1 st dose reduction	Discontinue permanently.

Table 1 Dose modification schedule for adverse reactions based on grade.

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Date	19.02.2024	Authorising consultant (usually NOG Chair)	R.Parker	

QTc value	Recommended dose modification
QTc >500ms at baseline	Treatment not recommended
QTc increase meets values of	Discontinue permanently.
both >500 ms and >60 ms	
change from pre-treatment	
values.	
1st occurrence of QTc >500ms	Temporarily interrupt treatment until QTc decreases below 500 ms.
during treatment and change	Electrolyte abnormalities (including magnesium) should be corrected, and cardiac
from pre-treatment value	risk factors for QT prolongation (e.g. congestive heart failure, bradyarrhythmias)
remains <60 ms	should be controlled.
	Resume dosing at 720 mg twice daily (or 480 mg twice daily if the dose has already
	been lowered).
2nd occurrence of QTc>500 ms	Temporarily interrupt treatment until QTc decreases below 500 ms.
during treatment and change	Electrolyte abnormalities (including magnesium) should be corrected, and cardiac
from pre-treatment value	risk factors for QT prolongation (e.g. congestive heart failure, bradyarrhythmias)
remains <60ms	should be controlled.
	Resume dosing at 480 mg twice daily (or discontinue permanently if the dose has
	already been lowered to 480 mg twice daily).
3rd occurrence of QTc>500 ms	Discontinue permanently.
during treatment and change	
from pre-treatment value	
remains <60ms	

Table 2 Dose modification schedule based on prolongation of QT interval

Repeat every 28 days

TTO	Drug	Dose	Route	Directions
Day 1	VEMURAFENIB	960mg PO		Twice daily as continuous treatment. Swallow tablets whole with water, do not crush or chew. The first dose is to be taken in the morning and the second dose is to be taken approximately 12 hours later in the evening. Each dose should always be taken in the same manner i.e. either with or without a meal. Available as 240mg tablets – Dispense 4 x 56 per cycle
	Metoclopramide 10mg		РО	up to 3 times a day as required. Do not take for more than 5 days continuously. Dispense 28 tablets on cycle 1, then only if specified.

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