



Cobimetinib and Vemurafenib Therapy

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	Reimbursement Status
Cobimetinib and vemurafenib in combination are indicated for the treatment of adult patients with unresectable or metastatic melanoma with a BRAF V600 mutation.	C43	00373a	CDS (01/04/2018)

TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

Cobimetinib is taken once daily for 21 consecutive days (Days 1 to 21-treatment period); followed by a 7-day break (Days 22 to 28-treatment break).

Vemurafenib is taken twice daily continuously (1 cycle = 28 days).

Treatment is continued until disease progression or unacceptable toxicity develops.

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Day	Drug	Dose	Route		Cycle
1-21	Cobimetinib	60mg once	PO	May be taken with or without food	Every 28 days
		daily	Swallow whole with		
			water.		
1-28	Vemurafenib	960mg BD	PO	May be taken with or without food	Every 28 days
			Swallow whole with	Consistent intake of both daily doses on	
			water.	an empty stomach should be avoided	

Missed doses

If a dose of cobimetinib is missed, it can be taken up to 12 hours prior to the next dose to maintain the once-daily regimen. If a dose of vemurafenib is missed, it can be taken up to 4 hours prior to the next dose to maintain the twice daily regimen. **Both doses should not be taken at the same time**.

Vomiting

In case of vomiting after administration of cobimetinib or vemurafenib, the patient should <u>not</u> take an additional dose. The next prescribed dose should be taken at the usual time.

Cobimetinib is available as 20mg film coated tablets

Vemurafenib is available as 240mg tablets.

ELIGIBILTY:

- Indication as above
- BRAF V600 mutation as demonstrated by a validated test method
- ECOG status 0-1
- LVEF > 50%

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EXCLUSIONS:

- Hypersensitivity to cobimetinib, vemurafenib or any of the excipients
- Wild type BRAF malignant melanoma
- Previous treatment failure with a BRAF inhibitor
- QT-interval longer than 500 milliseconds (Treatment with vemurafanib not recommended)
- Concomitant treatment with drugs known to prolong QT interval
- Uncontrolled electrolyte abnormalities (e.g., hypokalemia, hypomagnesemia, hypocalcemia)
- Uncontrolled hypertension
- Breast feeding

Use with Caution:

• Vemurafenib should be used with caution when given before, during or following radiation treatment. Prescribers should be aware of the risk of potentiation of radiation toxicity

PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist.

TESTS:

Baseline tests:

- FBC, renal and liver profile
- LDH
- Cardiac Function: ECG and LVEF

Regular tests:

- FBC, renal and liver profile prior to each cycle
- LDH prior to each cycle
- ECG: every 4 weeks (prior to each cycle) for the first 12 weeks, then every 12 weeks and after dose modification.
- All patients restarting treatment with a dose reduction of cobimetinib should have LVEF measurements taken after approximately 2 weeks, 4 weeks, 10 weeks and 16 weeks, and then as clinically indicated

Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

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DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant
- The decision on whether to reduce the dose for either or both treatments should be based on the prescriber's assessment of individual patient safety or tolerability.
- Dose modification of cobimetinib is independent of vemurafenib dose modification.
- If doses of cobimetinib or vemurafenib are omitted for toxicity, these doses should not be replaced.
- Once the dose of cobimetinib or vemurafemib has been reduced, it should not be increased at a later time.

Dose Level Reductions for cobimetinib and vemurafenib

Table 1: Dose Level Reductions for cobimetinib and vemurafenib

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Dose Level	Cobimetinib	Vemurafenib	
-1	40mg daily	720mg BD	
-2	20mg daily	480mg BD	
Further dose reduction indicated	Permanently discontinue	Permanently discontinue	

Renal and Hepatic Impairment:

Table 2: Recommended dose modifications in patients with renal or hepatic impairment

Drug	Renal impairn	nent	Hepatic impairment
Cobimetinib	Mild Moderate	No dose adjustment recommended	No dose adjustment is recommended Patients with severe hepatic impairment may have increased plasma concentrations of
	Moderate		unbound cobimetinib compared to patients with
	Severe	No data available Use with caution	normal hepatic function. Liver laboratory abnormalities can occur with cobimetinib and caution should be used in patients with any degree of hepatic impairment.
Vemurafenib			Limited data are available.
	A risk for increased exposure in patients with severe renal impairment cannot be excluded. Patients with severe renal impairment should be closely monitored		As vemurafenib is cleared by the liver, patients with moderate to severe hepatic impairment may have increased exposure and should be closely monitored

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Non-haematological toxicity:

Table 3: Recommended dose modifications for cobimetinib and vemurafenib

Grade (CTC-AE)*	Recommended dose of cobimetinib	Recommended dose of vemurafenib	
Grade 1 or Grade 2	No dose reduction.	Maintain vemurafenib at a dose of 960 mg	
(tolerable)	Maintain cobimetinib at a dose of 60 mg once	twice daily	
	daily (3 tablets)		
Grade 2 (intolerable)			
or Grade 3			
1 st occurrence	Interrupt treatment until Grade ≤ 1, restart treatment at 40 mg once daily (2 tablets)	Interrupt treatment until grade 0 – 1. Resume dosing at 720 mg twice daily (or 480 mg twice daily if the dose has already been lowered).	
2 nd occurrence	Interrupt treatment until Grade ≤ 1, restart treatment at 20 mg once daily (1 tablet)	Interrupt treatment until grade 0 – 1. Resume dosing at 480 mg twice daily (or discontinue permanently if the dose has already been lowered to 480 mg twice daily.	
3 rd occurrence	Consider permanent discontinuation	Discontinue permanently	
Grade 4	Interrupt treatment until Grade ≤ 1, restart	Discontinue permanently or interrupt	
1 st occurrence	treatment at 40 mg once daily (2 tablets)	vemurafenib treatment until Grade 0-1. Resume dosing at 480 mg twice daily (or discontinue permanently if the dose has already been lowered to 480 mg twice daily)	
2 nd occurrence	Interrupt treatment until Grade ≤ 1, restart treatment at 20 mg once daily (1 tablet)		
2 nd occurrence or		Discontinue permanently	
persistence of any			
grade 4 after 1st dose			
reduction			
3 rd occurrence	Consider permanent discontinuation		
*The intensity of clinical adverse events graded by the Common Terminology Criteria for Adverse Events v4.0 (CTC-AE)			

Cobimetinib and Left ventricular dysfunction:

- Permanent discontinuation of cobimetinib treatment should be considered if cardiac symptoms are attributed to cobimetinib and do not improve after temporary interruption.
- Table 3 shows the recommended dose modifications for cobimetinib in patients with left ventricular ejection fraction (LVEF) decrease from baseline.

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Table 4: Recommended dose modifications for cobimetinib in patients with LVEF decrease from baseline

Patient	LVEF value	Recommended	LVEF following	Recommended cobimetinib
		cobimetinib dose modification	treatment break	daily dose
Asymptomatic	≥ 50% or (40-49% and <10% absolute decrease from baseline)	Continue at current dose	N/A	N/A
	<40% or (40-49% and ≥ 10% absolute decrease from baseline)	Interrupt treatment for 2 weeks	<10% absolute decrease from baseline	1 st occurrence: 40mg 2 nd occurrence: 20mg 3 rd occurrence: permanent discontinuation
			<40% (or ≥ 10% absolute decrease from baseline)	Permanent discontinuation
Symptomatic	N/A	Interrupt treatment for 4 weeks	Asymptomatic and <10% absolute decrease from baseline	1 st occurrence: 40mg 2 nd occurrence: 20mg 3 rd occurrence : permanent discontinuation
			Asymptomatic and <40% (or ≥ 10% absolute decrease from baseline) Symptomatic regardless of LVEF	Permanent discontinuation Permanent discontinuation

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Table 5: Recommended dose modifications for cobimetinib and vemurafenib

Haemorrhage Grade 4 or cerebral haemorrhage	Cobimetinib treatment should be interrupted and permanently discontinued for haemorrhage events attributed to cobimetinib
Grade 3	Cobimetinib treatment should be interrupted during evaluation to avoid any potential contribution to the event. There is no data on the effectiveness of cobimetinib dose modification for haemorrhage events.
	Clinical judgment should be applied when considering restarting cobimetinib treatment. Vemurafenib dosing can be continued when cobimetinib treatment is interrupted, if clinically indicated.
Rhabdomyolysis or symptomatic CPK	Cobimetinib treatment should be interrupted.
elevations	If rhabdomyolysis or symptomatic CPK elevations do not improve within 4 weeks, treatment with cobimetinib should be permanently discontinued.
	If severity is improved by at least one grade within 4 weeks, cobimetinib could be restarted at a dose reduced by 20 mg, if clinically indicated. Patients should be closely monitored.
	Vemurafenib dosing can be continued when cobimetinib treatment is modified.
Asymptomatic CPK elevations	
Grade ≤3	After rhabdomyolysis has been ruled out, cobimetinib dosing does not need to be modified.
Grade 4:	Cobimetinib treatment should be interrupted. If CPK elevations do not improve to Grade ≤3 within 4 weeks following dose interruption, cobimetinib treatment should be permanently discontinued.
	If CPK improves to Grade ≤3 within 4 weeks, cobimetinib could be restarted, if clinically indicated, at a dose reduced by 20 mg and the patient should be closely monitored.
	Vemurafenib dosing can be continued when cobimetinib treatment is modified.

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Liver laboratory abnormalities	
Grade 1 and 2	Cobimetinib and vemurafenib should be continued at the prescribed dose.
Grade 3	Cobimetinib should be continued at the prescribed dose. Hold vemurafenib. Upon resolution of LFT to Grade ≤ 1,resume vemurafenib at 1 lower dose level
Grade 4	Cobimetinib treatment and vemurafenib treatment should be interrupted. If liver laboratory abnormalities improve to Grade ≤1 within 4 weeks, Cobimetinib should be restarted at a dose reduced by 1 dose level and vemurafenib should be decreased by 2 dose levels.
	Cobimetinib treatment and vemurafenib treatment should be discontinued if liver laboratory abnormalities do not resolve to Grade ≤1 within 4 weeks or if Grade 4 liver laboratory abnormalities recur after initial improvement
Photosensitivity	
Grade≤ 2 (tolerable)	Manage with best supportive care
Grade 2 (intolerable) or Grade ≥3 photosensitivity:	Cobimetinib and vemurafenib should be interrupted until resolution to Grade ≤1.
	Treatment can be restarted with no change in cobimetinib dose. Vemurafenib dosing should be reduced as clinically appropriate (see Table 3).
Rash	Dose of cobinetinib and/or vemurafenib may be interrupted and/or reduced as clinically indicated. Additionally for;
Grade ≤2 (tolerable) rash	Manage with best supportive care
Grade 2 (intolerable) or Grade ≥3 acneiform rash	General dose modification recommendations in Table 1 for cobimetinib should be followed. Vemurafenib dosing can be continued when cobimetinib treatment is modified (if clinically indicated).
Grade 2 (intolerable) or Grade ≥3 non- acneiform or maculopapular rash:	Cobimetinib dosing can be continued without modification if clinically indicated. Vemurafenib dosing may be either temporarily interrupted and/or reduced (see Table 3).
Diarrhoea Grade ≤ 2	No change in dosing of cobimetinib or vemurafenib. Manage with supportive care.
Grade ≥3 (despite supportive care) 1 st occurrence	Hold both cobimetinib and vemurafenib until resolved to Grade≤ 1.
Recurrent	Reduce the dose of both cobimetinib and vemurafenib
QT prolongation	If during treatment the QTc exceeds 500 msec, see Table 6 below for dose modifications for vemurafenib.
	No dose modification of cobimetinib is required when taken in combination with vemurafenib

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Table 5: Dose modification schedule of vemurafenib based on prolongation of the QT interval

QTc value	Discontinue	Recommended dose modification
QTc>500 ms at baseline		Treatment not recommended.
QTc increase meets values of both > 500 ms	Discontinue	
and >60 ms change from pre-treatment	permanently.	
values		
1st occurrence of QTc>500 ms during		Temporarily interrupt treatment until QTc < 500ms.
treatment and change from pre-treatment		Resume dosing at 720 mg twice daily (or 480 mg twice
value remains <60 ms		daily if the dose has already been lowered).
2nd occurrence of QTc>500 ms during		Temporarily interrupt treatment until QTc < 500ms.
treatment and change from pre-treatment		Resume dosing at 480 mg twice daily (or discontinue
value remains <60ms		permanently if the dose has already been lowered to
		480 mg twice daily).
3rd occurrence of QTc>500 ms during	Discontinue	
treatment and change from pre-treatment	permanently.	
value remains <60ms		

(CTC-AE v4.0).

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL:

Cobimetinib: Minimal to Low (Refer to local policy). Vemurafenib: Minimal to Low (Refer to local policy).

PREMEDICATIONS:

Not usually required.

OTHER SUPPORTIVE CARE:

- Cobimetinib has minor influence on the ability to drive or use machines. Visual disturbances have been
 reported in some patients treated with cobimetinib during clinical trials. Patients should be advised not
 to drive or use machines if they experience visual disturbances or any other adverse effects that may
 affect their ability.
- Women of childbearing potential should be advised to use two effective contraceptive methods, such as
 a condom or other barrier method (with spermicide, if available) during treatment with cobimetinib and
 for at least three months following treatment discontinuation

ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

Cobimetinib is subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions. The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

Cobimetinib

- Severe Haemorrhage: Severe haemorrhagic events, including intracranial and gastrointestinal tract
 bleeds have been reported in patients receiving cobimetinib in clinical trials and post-marketing.
 Cobimetinib should be used with caution when given to patients with additional risk factors for
 bleeding, such as brain metastases, and/or concomitant medications that increase the risk of bleeding
 (such as antiplatelet and anticoagulant therapy).
- Rhabdomyolysis and Creatine Phosphokinase (CPK) Elevations: Rhabdomyolysis and CPK elevations have been reported in patients receiving cobimetinib clinical trials and post-marketing. Baseline

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serum CPK and creatinine levels should be measured before starting treatment, and then monitored monthly during treatment or as clinically indicated. If serum CPK is elevated, check for signs and symptoms of rhabdomyolysis or other causes.

- **Serous retinopathy:** Cases of serous retinopathy have been reported in patients treated with cobimetinib. For patients reporting new or worsening visual disturbances, an ophthalmologic examination is recommended. Serous retinopathy can be managed with treatment interruption, dose reduction or with treatment discontinuation (see Table 3)
- Lactose intolerance: This medicinal product contains lactose. Patients with rare hereditary problems of galactose intolerance, congenital lactase deficiency or glucose-galactose malabsorption should consult with their physician and discuss whether the benefits outweigh the risks on an individual basis.

Vemurafenib

- Risk Factors for Torsade de Points: Treat with caution in patients with risk factors for Torsade de Points
- Cutaneous Squamous Cell Carcinoma (cuSCC): Dose modification or interruption is not recommended. Cases of cuSCC are typically managed with simple excision, and patients are able to continue treatment without dose adjustment. Monitoring should continue for 6 months following discontinuation of vemurafenib or until initiation of another anti-neoplastic therapy. Patients should be instructed to inform their physicians upon the occurrence of any skin changes.
 - Other Cancers: Skin cancers (Squamous cell carcinoma (SCC) and Kerathocantomas (KAs)) have been reported at an increased frequency and there have been 2 reports (as of August 2012) of oral SCC cancers. There are theoretical concerns of lung cancer.
 - Pancreatitis: Unexplained abdominal pain should be promptly investigated (including measurement of serum amylase and lipase). Patients should be closely monitored when re-starting vemurafenib after an episode of pancreatitis
 - **Photosensitivity**: Mild to severe photosensitivity has been reported. All patients should be advised to wear protective clothing and use a broad spectrum UVA/UVB sunscreen and lip balm (SPF 30 or higher) when outdoors to help protect against sunburn. For photosensitivity, grade 2 (intolerable) or greater adverse events, dose modifications are recommended (see Table 3).
- **Hepatic Impairment:** Vemurafenib is primarily eliminated by the liver. Patients with mild hepatic impairment due to liver metastases without hyperbilirubinaemia may be monitored according to the general recommendations. There are only very limited data available in patients with moderate to severe hepatic impairment. Patients with moderate to severe hepatic impairment may have increased exposure. Thus close monitoring is warranted especially after the first few weeks of treatment as accumulation may occur over an extended period of time (several weeks).
- **Hypersensitivity Reactions:** Serious hypersensitivity reactions, including anaphylaxis have been reported. Severe hypersensitivity reactions may include Stevens-Johnson syndrome, toxic epidermal necrolysis (TEN), generalized rash, erythema or hypotension. Treatment with vemurafenib should be permanently discontinued.
- **Ophthalmologic:** Vemurafenib treatment-related serious ophthalmologic reactions, including uveitis, iritis and retinal vein occlusion, have been reported. Monitor patients routinely for ophthalmologic reactions and refer to Ophthalmologist if clinically indicated.
- Radiation Related Injuries: Severe cases of radiation related injuries, some with fatal outcome, have been reported in patients treated with radiation either before, during, or following treatment with vemurafenib. Vemurafenib should be used with caution when given before, during, or following radiation treatment.

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DRUG INTERACTIONS:

- Concurrent use of strong CYP3A inhibitors during treatment with cobimetinib should be avoided.
 Caution should be exercised if a moderate CYP3A inhibitor is co-administered with cobimetinib. If concomitant use with a strong or moderate CYP3A inhibitor is unavoidable, patients should be carefully monitored for safety and dose modifications applied if clinically indicated
- Cobimetinib is a substrate of P-glycoprotein (P-gp). Concomitant administration of P-gp inhibitors such as ciclosporin and verapamil may have the potential to increase plasma concentrations of cobimetinib.
- QT-prolonging Medications: Vemurafenib causes QT prolongation. Concomitant use of QT-prolonging medications (e.g. amiodarone, sotalol, haloperidol, amitriptyline, methadone, fluconazole, erythromycin, ciprofloxacin, ondansetron, formoterol, quinidine, tacrolimus) should be avoided if possible.
- Vemurafenib is a moderate CYP1A2 inhibitor, a weak CYP2D6 inhibitor and a CYP3A4 inducer. Caution should be exercised when used with medications predominantly metabolized by CYP1A2, CYP2D6 and CYP3A4.
- Vemurafenib is a substrate of CYP3A4. Concomitant use of moderate and strong CYP3A inducers (e.g. carbamazepine, rifampicin, phenytoin, and St. John's Wort) should be avoided.
- Co-administration of vemurafenib resulted in a 20% increase in AUC of warfarin (CYP2C9 substrate).
 Exercise caution and consider additional INR monitoring when vemurafenib is used concomitantly with warfarin.
- Current drug interaction databases should be consulted for more information.

ATC CODE:

Cobimetinib L01XE38 Vemurafenib L01XE15

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1	20/03/2018		Dr Fergal Kelleher
2	01/05/2020	Reviewed. Updated emetogenic potential	Dr Fergal Kelleher
		section	

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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