THERAPY MANAGEMENT GUIDE

BRAFTOVI in combination with cetuximab

A resource to help support your patients with BRAF^{V600E}-mutant mCRC through their treatment





BRAFTOVI is indicated in combination with cetuximab, for the treatment of adult patients with metastatic colorectal cancer (CRC) with a BRAF V600E mutation, who have received prior systemic therapy.

mCRC, metastatic colorectal cancer.

This medicinal product is subjected to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions.

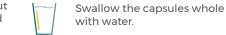
Dosing in specific populations

Instruct your patients about BRAFTOVI administration^{1,2}

Cetuximab
Initial dose: 400 mg/m ² subsequent doses: 250 mg/m ² ng information for cetuximab, refer to the ab Summary of Product Characteristics.
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Continue treatment with BRAFTOVI + cetuximab until disease progression or unacceptable toxicity¹

May be taken with or without food. Grapefruit juice should be avoided.



12 hours

Patients should not take a missed dose of BRAFTOVI within **12 hours** of the next dose.

In case of vomiting after administration of BRAFTOVI, the patient should not take an additional dose and should take the next scheduled dose.¹

Women of childbearing potential must use effective contraception during treatment with BRAFTOVI and for at least 1 month following the last dose. BRAFTOVI may decrease the efficacy of hormonal contraceptives. Therefore, female patients using hormonal contraception are advised to use an additional or alternative method such as a barrier method (eg, condom) during treatment with BRAFTOVI and for at least 1 month following the last dose. BRAFTOVI is not recommended during pregnancy and in women of childbearing potential not using contraception. If the patient becomes pregnant while using BRAFTOVI or is already pregnant, the patient should be informed of the potential hazard to the foetus.¹

It is unknown whether BRAFTOVI or its metabolites are excreted in human milk. A risk to the newborns/infants cannot be excluded. A decision must be made whether to discontinue breast-feeding or to discontinue BRAFTOVI therapy taking into account the benefit of breast-feeding for the child and the benefit of therapy for the mother.¹

There are no data on the effects of BRAFTOVI on fertility in humans. Male patients should be informed of the potential risk for impaired spermatogenesis.¹

BRAFTOVI is available as 75-mg capsules¹



BRAFTOVI 75 mg is available in packs of 42 hard capsules, equivalent to 10 days of treatment at full dose.

Not actual size.

Storage for BRAFTOVI¹



No refrigeration requirement; instruct your patients to store BRAFTOVI below 30°C.



Store in the original package in order to protect from moisture.

2 Please see accompanying Summary of Product Characteristics.

Elderly patients¹

No dose adjustment is required for patients aged 65 years and older (based on age alone).

Hepatic impairment¹

Degree of hepatic impairment	Child-Pugh score	BRAFTOVI dosing
Mild	А	Use with caution at 300 mg once daily
Moderate	В	Not recommended
Severe	С	

To assess the degree of hepatic impairment, calculate the Child-Pugh score and class.

Child-Pugh score³

Variable	Points		
variable	1	2	3
Hepatic encephalopathy	None	Stage I-IIª	Stage III-IV ^a
Ascites	Absent	Controlled	Refractory
Bilirubin (mg/dL)	<2	2-3	>3
Albumin (g/L)	>35	28-35	<28
Prothrombin time (seconds)	<4	4-6	>6

Child-Pugh class³

Sum of points	5-6	7-9	10-15
Class	A (mild)	B (moderate)	C (severe)

Renal impairment^{1,4}

Degree of renal impairment	BRAFTOVI dosing
Mild (eGFR 60-90 mL/min/1.73 m ²)	No dose adjustment required
Moderate (eGFR 30-59 mL/min/1.73 m²)	
Severe (eGFR <30 mL/min/1.73 m²)	No clinical data Use with caution

^aStage I may involve a trivial lack of awareness, euphoria or anxiety, a shortened attention span, impairment of the ability to perform addition or subtraction, or an altered sleep rhythm. Stage II may involve lethargy or apathy, time disorientation, obvious personality change, inappropriate behaviour, dyspraxia, or asterixis. Stage III may involve a range of somnolence to a semi-stupor, responsiveness to stimuli, confusion, gross disorientation, or bizarre behaviour. Stage IV entails a coma.⁵

For dosing information for cetuximab, refer to the cetuximab Summary of Product Characteristics.



eGFR, estimated glomerular filtration rate.

START

Effects of other medicinal products on BRAFTOVI¹

	Effects	Examples
Strong CYP3A4 inhibitors	 Increases BRAFTOVI exposure and potentially increases toxicity Concomitant administration should be avoided If unavoidable, carefully monitor safety 	ritonavir, itraconazole, clarithromycin, telithromycin, posaconazole, grapefruit juice
Moderate CYP3A4 inhibitors	Co-administer with caution and carefully monitor safety	amiodarone, erythromycin, fluconazole, diltiazem, amprenavir, imatinib
CYP3A4 inducers	 May result in compromised efficacy Alternative agents with no or minimal CYP3A induction potential should be considered 	carbamazepine, rifampicin, phenytoin, St John's wort

Effects of BRAFTOVI on other medicinal products¹

	Effects	Examples
CYP3A4 substrates	 May result in increased toxicity or loss of efficacy of CYP3A4 substrates Co-administer with caution 	hormonal contraceptives
UGT1A1 substrates	 May have increased exposure of UGT1A1 substrates Co-administer with caution 	raltegravir, atorvastatin, dolutegravir
Transporter substrates (renal transporters: OAT1, OAT3, OCT2; hepatic transporters: OATPIB1, OATP1B3, OCT1; BCRP) or substrates of P-gp	 May have increased exposure of transporter protein substrates Co-administer with caution 	furosemide, penicillin, atorvastatin, bosentan, methotrexate, rosuvastatin, posaconazole

For drug interaction information for cetuximab, refer to the cetuximab Summary of Product Characteristics.

BCRP, breast cancer resistance protein; CYP3A4, cytochrome P450 3A4; OAT1, organic anion transporter 1; OAT3, organic anion transporter 3; OATPIB1, organic anion transporting polypeptide 1B1; OATPIB3, organic anion transporting polypeptide 1B3; OCT1, organic cation transporter 1; OCT2, organic cation transporter 2; P-gp, permeability glycoprotein; UGTIA1, uridine diphosphate glucuronosyltransferase 1A1. Monitoring at initiation, during, and after treatment helps ensure optimal adverse event management.¹

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Before treatment	During treatment	After treatment
Non-cutaneous malignancy assessments Head and neck evaluation Chest/abdomen CT scan Anal and pelvic examinations (for women) Complete blood cell counts	Non-cutaneous malignancy assessments (as clinically appropriate) Head and neck evaluation Chest/abdomen CT scan Anal and pelvic examinations (for women) Complete blood cell counts	Non-cutaneous malignancy assessments (as clinically appropriate) Head and neck evaluation Chest/abdomen CT scan Anal and pelvic examinations (for women) Complete blood cell counts
Dermatologic evaluation	Dermatologic evaluation: Every 2 months	Dermatologic evaluation : For up to 6 months after treatment discontinuation
Blood tests Liver laboratory values (AST, ALT)	Blood tests Liver laboratory values: At least monthly during the first 6 months of treatment, then as clinically indicated Creatinine values: As clinically indicated	Blood tests Liver laboratory values: As clinically indicated Creatinine values: As clinically indicated
Cardiac monitoring ECG Electrolyte correction QT prolongation risk-factor control	Cardiac monitoring ECG: 1 month after initiation and approximately every 3 months thereafter or more frequently as clinically indicated Electrolyte correction QT prolongation risk-factor control	
	Ophthalmologic evaluation : At each visit for new or worsening visual disturbance and refer for ophthalmologic exam if new or worsening	

symptoms are found For information about monitoring at initiation, during, and after treatment for cetuximab, refer to the cetuximab Summary of Product Characteristics.

ALT, alanine aminotransferase; AST, aspartate aminotransferase; CT, computerised tomography; ECG, electrocardiogram.



ARs occurring in patients receiving BRAFTOVI + cetuximab (n=216)^{1,a}

System organ class	Adverse reaction	Frequency (all grades)
	Melanocytic naevus	Very common
	cuSCC♭	Common
Neoplasms benign, malignant and unspecified	Skin papilloma°	Common
	New primary melanoma ^c	Common
	Basal cell carcinoma	Uncommon
Immune system disorders	Hypersensitivityd	Common
Metabolism and nutrition disorders	Decreased appetite	Very common
Psychiatric disorders	Insomnia	Very common
	Neuropathy peripheral ^c	Very common
New our exchange discussion	Headache ^c	Very common
Nervous system disorders	Dizziness ^c	Common
	Dysgeusia	Common
Cardiac disorders	Supraventricular tachycardia®	Common
Vascular disorders	Haemorrhage ^f	Very common
	Nausea	Very common
	Vomiting	Very common
Gastrointestinal disorders	Constipation	Very common
	Abdominal pain ^c	Very common
	Diarrhoea ^c	Very common
	Pancreatitis°	Uncommon

ARs occurring in patients receiving BRAFTOVI + cetuximab (n=216)^{1,a}

System organ class	Adverse reaction	Frequency (all grades)
	Dermatitis acneiform ^c	Very common
	Rash ^c	Very common
	Dry skin ^c	Very common
	Pruritus ^c	Very common
Skin and subcutaneous	Skin hyperpigmentation	Common
disorders	PPES	Common
	Hyperkeratosis ^c	Common
	Alopecia	Common
	Erythema ^g	Common
	Skin exfoliation ^h	Uncommon
	Arthralgia/musculoskeletal pain ^c	Very common
Musculoskeletal and connective	Myopathy/muscular disorder ^c	Very common
tissue disorders	Pain in extremity	Very common
	Back pain	Very common
Renal and urinary disorders	Renal failure ^c	Common
General disorders and	Fatigue ^c	Very common
administration site conditions	Pyrexia ^c	Very common
	Blood creatinine increased ^c	Common
Investigations	Transaminase increased ^c	Common
Investigations	Amylase increased	Uncommon
	Lipase increased	Uncommon

ARs are listed by MedDRA body system organ class and the following frequency convention: very common (\geq 1/10), common (\geq 1/10,000 to <1/100), very rare (<1/10,000), not known (cannot be estimated from the available data).

^aThe safety of BRAFTOVI (300 mg orally once daily) in combination with cetuximab (dosed as per its SmPC) was evaluated in 216 patients with *BRAF*^{veoce_}mutant metastatic colorectal cancer. The most common adverse drug reactions (>25%) reported were fatigue, nausea, diarrhoea, dermatitis acneiform, abdominal pain, arthralgia/ musculoskeletal pain, decreased appetite, rash, and vomiting.

^bIncludes, but not limited to, keratoacanthoma and squamous cell carcinoma.

^cComposite terms which included more than one preferred term.

^dIncludes, but not limited to, angioedema, drug hypersensitivity, hypersensitivity, hypersensitivity vasculitis, urticaria, and anaphylactic reaction.

^eIncludes but not limited to extrasystoles and sinus tachycardia. ¹Includes haemorrhage at various sites, including cerebral haemorrhage. ⁹Includes erythema, generalised erythema, plantar erythema. ⁴Includes dermatitis exfoliative, skin exfoliation, exfoliative rash.

PPES, palmar-plantar erythrodysaesthesia syndrome.

(encoratenib)

Discontinuation rate of all study drugs due to any AR was 1.9% with BRAFTOVI + cetuximab¹

AR, adverse reaction; cuSCC, cutaneous squamous cell carcinoma.

Dose interruption and discontinuation

Dose modifications fo	r BRAFTOVI ^{1.a}
Starting dose 300 mg (four 75-mg capsules)	0000
First reduction 225 mg (three 75-mg capsules)	000
Second reduction 150 mg (two 75-mg capsules)	00
Permanent discontinuation	

^a For patients with mild hepatic impairment, administration of BRAFTOVI should be undertaken with caution
at the 300-mg dose. In the absence of clinical data, BRAFTOVI is not recommended in patients with moderate
to severe hepatic impairment. For patients with severe renal impairment, BRAFTOVI should be taken
with caution.

Dose modifications are recommended to manage adverse reactions. Please see Section 4.2 of the full Summary of Product Characteristics for BRAFTOVI for additional information.

For dose modification information for cetuximab, refer to the cetuximab Summary of Product Characteristics.

Interruption	For information on the recommended dose modifications of cetuximab, see section 4.4 of the cetuximab Summary of Product Characteristics		
Permanent discontinuation ¹			
BRAFTOVI	Cetuximab		
Permanent discontinuation	Discontinuation		
Discontinuation			

Cetuximab

If BRAFTOVI is permanently discontinued, cetuximab should be discontinued.¹ If cetuximab is permanently discontinued, BRAFTOVI should be discontinued.¹

For dose modifications information for cetuximab, refer to the cetuximab Summary of Product Characteristics.



Dose interruption¹ BRAFTOVI

Managing adverse reactions during treatment with BRAFTOVI + cetuximab

Adverse reaction ¹	Severity of adverse reaction ^{1,a}	Dose modifications for BRAFTOVI ¹			
Skin and subcutaneous					
	Grade 2	Maintain dose • If rash worsens or does not improve within 2 weeks with treatment, withhold until Grade 0 or 1 and then resume at same dose			
Cutaneous reactions	Grade 3	Withhold until improved to Grade 0 or 1 • If first occurrence, resume at same dose • If recurrent Grade 3, resume at a reduced dose			
	Grade 4	Permanently discontinue.			
PPES	Grade 2	Maintain dose and institute supportive measures such as topical therapy - If not improved within 2 weeks, withhold until improved to Grade 0 or 1 and then resume at same dose level or a reduced dose			
	Grade 3	Withhold, institute supportive measures such as topical therapy, and reassess weekly • When improved to Grade 0 or 1, resume at same dose level or a reduced dose			

Maintain or withhold

Reduce or withhold Permanently discontinue

If BRAFTOVI is permanently discontinued, cetuximab should be discontinued.¹ If cetuximab is permanently discontinued, BRAFTOVI should be discontinued.¹

PPES, palmar-plantar erythrodysaesthesia syndrome.

Adverse reaction ¹	Severity of adverse reaction ^{1,a}	Dose modifications for BRAFTOV			
Ocular					
Uveitis including iritis and iridocyclitis	Grades 1-3	Withhold and conduct ophthalmic monitoring within 2 weeks for Grade 1 or 2 uveitis that doesn't respond to ocular therapy or for Grade 3 uveitis • If Grade 1 uveitis improves to Grade 0, then resume at the same dose • If Grade 2 or 3 uveitis improves to Grade 0 or 1, then treatment should be resumed at a reduced dose			
		If not improved within 6 weeks, repeat ophthalmic monitoring and permanently discontinue.			
	Grade 4	Permanently discontinue and follow up with ophthalmologic monitoring			
	Cardiac	:			
	QTcF >500 ms and change ≤60 ms from	Withhold • When QTcF returns to ≤500 ms, resume at a reduced dose • If more than 1 recurrence, discontinue			
QTc prolongation	pre-treatment value	• If more than 1 recurrence, discontinue			
	QTcF >500 ms and increased by >60 ms from pre-treatment value	Permanently discontinue.			

^aGrades per National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) version 4.03. QTc, QT interval corrected; QTcF, QT interval corrected by Fridericia's formula.



Managing adverse reactions during treatment with BRAFTOVI + cetuximab (cont)

Adverse reaction ¹	Severity of adverse reaction ^{1,a}	Dose modifications for BRAFTOVI ¹	Adverse reaction ¹	Severity of adverse reaction ^{1,a}	Dose modifications for BRAFTOV
Ģ	Civer laboratory a	bnormalities		Othe	r
Grade 2 (AST or ALT >3x - ≤5x ULN) First occurrence of Grade 3 (AST or ALT >5x ULN and blood bilirubin >2x ULN) AST or ALT First occurrence of Grade 4 (AST or ALT >20 ULN) Recurrent Grade 3 (AST or ALT >5x ULN) Recurrent Grade 3 (AST or ALT >5x ULN) and blood bilirubin >2x ULN)		Maintain dose • If no improvement within 4 weeks, withhold until improved to Grade 0 or 1 or to pre-treatment/baseline		Recurrent or intolerable Grade 2 adverse reactions OR	Withhold for up to 4 weeks • If not improved to Grade 0 or 1 or to baseline levels, resume at a reduced dose
		levels and then resume at same dose		First occurrence of Grade 3 adverse reactions	If not improved, permanently discontinue.
	Grade 3 (AST or ALT	Withhold for up to 4 weeks • If improved to Grade 0 or 1 or baseline levels, resume at a reduced dose		First occurrence of any Grade 4 adverse reactions	Withhold for up to 4 weeks • If improved to Grade 0 or 1 or baseline levels, resume at a reduced dose
	bilirubin >2x ULN)	If not improved, permanently discontinue.			If not improved, permanently discontinue.
		Withhold for up to 4 weeks • If improved to Grade 0 or 1 or			OR Permanently discontinue.
		baseline levels, resume at a reduced dose		Recurrent Grade 3 adverse reactions	Consider permanently discontinuing.
	If not improved, permanently discontinue. OR Permanently discontinue.		Recurrent Grade 4 adverse reactions	Permanently discontinue.	
	Consider permanently discontinuing.	Non-cutaneous malignancy: Non- cutaneous RAS mutation-positive	Consider permanently discontinuing.		
	Recurrent Grade 4 (AST or ALT >20 ULN)	Permanently discontinue.	Maintain or withhold Reduce or withhold Permanently d		



ALT, alanine aminotransferase; AST, aspartate aminotransferase; ULN, upper limit of normal.

If BRAFTOVI is permanently discontinued, cetuximab should be discontinued.¹ If cetuximab is permanently discontinued, BRAFTOVI should be discontinued.¹

THERAPY MANAGEMENT GUIDE

For BRAFTOVI in combination with cetuximab

START	Recommended starting dose and administration of BRAFTOVI: 300 mg orally once daily and may be taken with or without food. ^a Grapefruit juice should be avoided ¹ No dose adjustment is required for patients aged 65 years and older (based on age alone) ¹ No refrigeration requirement; instruct your patients to store BRAFTOVI below 30°C ¹ *Starting dose depending on dose adjustments in certain populations.
	Monitorium potiente thursenle contain toote and clinical
MONITOR	Monitoring patients through certain tests and clinical evaluations is recommended prior to, during, and after treatment with BRAFTOVI + cetuximab ¹
MANAGE	Dose modifications are recommended to manage adverse reactions ¹

Please refer your patients to the BRAFTOVI Patient Brochure and the complete patient information leaflet in their medication packaging for further information and guidance.

For information about dosing and adverse events for cetuximab, refer to the cetuximab Summary of Product Characteristics.

References: 1. Braftovi Summary of Product Characteristics. Pierre Fabre Médicament, 2020. 2. Erbitux Summary of Product Characteristics. Merck Europe B.V., 2020. 3. Pinter M, Trauner M, Peck-Radosavljevic M, Sieghart W. Cancer and liver cirrhosis: implications on prognosis and management. *ESMO Open*. 2016;1(2)e000042. doi:10.1136/ esmoopen-2016-000042. 4. European Medicines Agency. Guideline on the evaluation of the pharmacokinetics of medicinal products in patients with decreased renal function. https://www.ema.europa.eu/en/documents/scientific-guideline-guideline-evaluation-pharmacokinetics-medicinal-products-patients-decreased-renal-function_en.pdf. Published 17 December 2015. Accessed 9 March 2020. 5. Vilstrup H, Amodio P, Bajaj J, et al. Hepatic encephalopathy in chronic liver disease: 2014 practice guideline by the American Association for the Study of Liver Diseases and the European Association for the Study of the Liver. *Hepatology*. 2014;60(2):715-735.



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