

**NCCP** Chemotherapy Regimen



## **Trametinib and Dabrafenib Therapy**

## **INDICATIONS FOR USE:**

		Regimen	Reimbursement
INDICATION	ICD10	Code	Status
Treatment of adult patients with unresectable or metastatic	C43	00415a	CDS
melanoma with a BRAF V600 mutation.			(01/04/2018)
Adjuvant treatment of adult patients with Stage III melanoma with a	C43	00415b	CDS
BRAF V600 mutation, following complete resection.			01/12/2021

### **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.

Dabrafenib and trametinib are administered daily until disease progression or unacceptable toxicity develops.

# For adjuvant therapy patients should be treated for a period of 12 months unless there is disease recurrence or unacceptable toxicity develops.

Drug	Dose	Route	Cycle
Dabrafenib	150mg Twice daily	PO <sup>a,b</sup>	Continuous
Trametinib	2mg once daily	PO <sup>c, d,e</sup>	Continuous
•		should be swallowed whole with water 1 hound be swallowed whole with water 1 hound and should NOT be mixed with food or liqued with food with food or liqued with food or liqued with food	
		n in combination with trametinib only take th dose. Dabrafenib should be taken at similar t	
	b is missed when given Intil the next scheduled	in combination with dabrafenib only take th dose.	e dose of trametinib if it is
<sup>d</sup> The once daily dose evening dose of dabra		taken at the same time each day with either	r the morning dose or the
<sup>e</sup> If a patient vomits af dose	ter taking trametinib, t	he patient should not retake the dose and sh	ould take the next scheduled
Dabrafenib is availabl	e as 50mg and 75mg ca	psules.	
Trametinib is availabl	e as 0.5mg and 2mg tab	olets.	

Trametinib is available as 0.5mg and 2mg tablets.

## **ELIGIBILITY:**

- Indications as above
- BRAF V600 mutation as demonstrated by a validated test method
- ECOG status 0-1

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- Cardiac: left ventricular ejection fraction ≥ lower limit of normal by echocardiography) function.
- For unresectable or metastatic melanoma: Sequential treatment may be considered where patients are intolerant to a prescribed BRAF inhibitor and are subsequently changed to an alternative

## EXCLUSIONS:

- Hypersensitivity to dabrafenib, trametinib or any of the excipients
- Uncontrolled electrolyte abnormalities (e.g., hypokalemia, hypomagnesemia, hypocalcemia)
- Uncontrolled hypertension
- History or current evidence of retinal vein occlusion (RVO) or central serous retinopathy (CSR)
- History of clinically significant or active interstitial lung disease or pneumonitis
- Wild type BRAF malignant melanoma
- Pregnancy (\*Reference **Drug Interactions below**: Dabrafenib reduces efficacy of hormonal contraceptives)
- Breast feeding
- For unresectable or metastatic melanoma:
  - o Treatment failure with a BRAF and /or MEK inhibitor

## **USE with CAUTION:**

Carefully consider benefits and risks before administering dabrafenib to patients with a prior or concurrent cancer associated with RAS mutations.

## **PRESCRIPTIVE AUTHORITY:**

The treatment plan must be initiated by a Consultant Medical Oncologist

### **TESTS**:

#### Baseline tests:

- FBC, Renal and liver profile
- ECG
- Echocardiogram
- Dermatologic evaluation for other skin cancer
- Ophthalmologist evaluation if clinically indicated

#### **Regular tests**:

- FBC, Renal and liver profile monthly
- ECG and Echocardiogram: at the end of the first 4 weeks and then every 12 weeks and after dose modification(prior to each cycle)
- Dermatologic evaluation every 60 days (assess for other skin cancers and new primary melanoma) and for up to 6 months following discontinuation of treatment
- Head and neck examination every 3 months

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• Chest CT every 6 months

#### **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.

## **DOSE MODIFICATIONS:**

- Any dose modification should be discussed with a Consultant.
- The management of adverse reactions may require treatment interruption, dose reduction, or treatment discontinuation.
- Dose modifications are not recommended for adverse reactions of cutaneous squamous cell carcinoma (cuSCC) or new primary melanoma.

#### **Renal and Hepatic Impairment:**

#### Table 1: Recommended dose modification of dabrafenib and trametinib in renal and hepatic impairment

Drug	Renal Impairment	Hepatic Impairment
Dabrafenib	No dose adjustment is required for patients with mild or moderate renal impairment. There are no clinical data in subjects with severe renal impairment and the potential need for dose adjustment cannot be determined. Dabrafenib should be used with caution in patients with severe renal impairment.	No dose adjustment required for patients with mild hepatic impairment. No data available for patients with moderate to severe hepatic impairment. Use with caution. Hepatic metabolism and biliary secretion are the primary routes of elimination of dabrafenib and its metabolites.
Trametinib	No dose adjustment is required for patients with mild or moderate renal impairment. There are no clinical data in subjects with severe renal impairment and the potential need for dose adjustment cannot be determined. Trametinib should be used with caution in patients with severe renal impairment.	No dose adjustment required for patients with mild hepatic impairment. No data available for patients with moderate to severe hepatic impairment. Use with caution.

Recommended dose level reductions and the recommendations for dose modifications are provided in table 2 and table 3 respectively.

#### Table 2: Dose level reductions for dabrafenib and trametinib.

Dose Level	Dabrafenib Dose	Trametinib Dose
Full Dose	150mg BD	2mg once daily
1st Reduction	100mg BD	1.5mg once daily
2nd Reduction	75mg BD	1mg once daily
3rd Reduction	50mg BD	1mg once daily
Dose adjustment for dabrafenib below 50mg BD is not recommended		
Dose adjustment for trametinib below 1mg once daily is not recommended when used in combination with dabrafenib		

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Adverse reactions*	Recommended dose modification / discontinuation
Grade 1 or 2 (Tolerable)	Continue treatment and monitor as clinically indicated
Grade 2 (Intolerable) or Grade 3	Interrupt therapy until toxicity is grade 0 to 1 and reduce by one dose level when resuming therapy
Grade 4	Discontinue permanently or interrupt therapy until grade 0 to 1 and reduce by one dose level when resuming therapy.

## Table 3: Dose modification schedule for dabrafenib and trametinib based on the grade of any adverse events (except pyrexia).

\*The intensity of clinical adverse events graded by the Common Terminology Criteria for Adverse Events v4.0 (CTC-AE).

- When an individual's adverse reactions are under effective management, dose re-escalation following the same dosing steps as de-escalation may be considered for both dabrafenib and trametinib.
  - The dose of dabrafenib should not exceed 150 mg twice daily.
  - The dose of trametinib should not exceed 2mg once daily.

#### Table 4: Dose modifications for dabrafenib and trametinib for the management of pyrexia

Pyrexia	Recommendations
(temp ≥38°C)	Interrupt therapy.
	<ul> <li>Recurrence</li> <li>therapy can also be interrupted at the first symptom of pyrexia</li> <li>Initiate therapy with anti-pyretics</li> </ul>
	<ul> <li>Consider oral corticosteroids where anti-pyretics not sufficient.</li> </ul>
	Therapy should be restarted if the patient is symptom free for at least 24 hours, either at the same dose level, or reduced by one dose level if the pyrexia is recurrent and/or was accompanied by other severe symptoms including dehydration, hypotension or renal failure.

If treatment-related toxicities occur when dabrafenib is used in combination with trametinib, then both treatments should be simultaneously dose reduced, interrupted or discontinued. Exceptions to dose modifications where only one of the two therapies is dose reduced for selected adverse reactions are included in table 5 below.

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## Table 5: Dose modification exceptions (where only one of the two therapies is dose reduced) for selected adverse reactions

	Recommended dose modification / discontinuation		
Adverse reactions	Dabrafenib	Trametinib	
Uveitis	<ul> <li>No dose reductions are recommended for uveitis as long as effective local therapies can control ocular inflammation.</li> <li>If uveitis does not respond to local ocular therapy, withhold dabrafenib therapy until resolution of ocular inflammation and then restart dabrafenib reduced by one dose level ( see table 2).</li> </ul>	No dose modification required.	
RAS-mutation- positive non- cutaneous malignancies	Consider the benefits and risks before continuing treatment with dabrafenib in patients with a non- cutaneous malignancy that has a RAS mutation.	No dose modification required.	
LVEF reduction /Left ventricular dysfunction	No dose modification required.	Interrupt trametinib therapy in patients with an asymptomatic, absolute decrease of >10% in LVEF compared to baseline and the ejection fraction is below the institution's lower limit of normal (LLN). If the LVEF recovers, treatment with trametinib may be restarted, but the dose should be reduced by one dose level with careful monitoring. With Grade 3 or 4 left ventricular cardiac dysfunction or if LVEF does not recover trametinib should be permanently discontinued.	
Retinal vein occlusion (RVO) and Retinal pigment epithelial detachment (RPED)	No dose modification required.	In patients diagnosed with RVO trametinib should be permanently discontinued. If RPED is diagnosed follow the dose modification table for trametinib (Table 5 Below).	
Interstitial lung disease (ILD)/Pneumonitis	No dose modification required	Withhold trametinib in patients with suspected ILD or pneumonitis, Permanently discontinue trametinib for patients diagnosed with treatment- related ILD or pneumonitis.	

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Grade 1 RPED	Continue treatment with retinal evaluation monthly until resolution. If RPED worsens follow instructions below and withhold trametinib for up	
	to 3 weeks.	
Grade 2 - 3 RPED	Withhold trametinib for up to 3 weeks.	
Grade 2-3 RPED that	Resume trametinib at a lower dose (reduced by 0.5 mg) or discontinue	
improves to Grade 0-1	trametinib in patients taking trametinib 1 mg daily.	
within 3 weeks		
Grade 2-3 RPED that does	Permanently discontinue trametinib.	
not improve to at least		
Grade 1 within 3 weeks		

#### Table 6: Recommended dose modifications for trametinib for Retinal pigment epithelial detachment (RPED)

## **SUPPORTIVE CARE:**

### EMETOGENIC POTENTIAL:

Dabrafenib:Moderate to high (Refer to local policy)Trametinib:Minimal to low (Refer to local policy)

**PREMEDICATIONS:** Not usually required

**OTHER SUPPORTIVE CARE:** 

No specific recommendations

## **ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS**

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.

- **Cutaneous Squamous Cell Carcinoma (cuSCC):** Cases of cuSCC have been reported in patients treated with dabrafenib. They should be managed by dermatological excision and dabrafenib treatment should be continued without any dose adjustment. Patients should be instructed to immediately inform their physician if new lesions develop. It is recommended that skin examination be performed prior to initiation of therapy with dabrafenib and monthly throughout treatment and for up to six months after treatment for cuSCC or until initiation of another anti-neoplastic therapy.
- **New primary melanoma:** Cases have been identified within the first 5 months of therapy. They were managed with excision and did not require treatment modification. Monitoring for skin lesions should occur as described for cuSCC.
- Non-cutaneous secondary/recurrent malignancy: Prior to initiation of treatment patients should undergo a head and neck examination with minimally visual inspection of oral mucosa and lymph node palpation, as well as chest/abdomen CT scan. During treatment patients should be monitored as clinically appropriate which may include a head and neck examination every 3 months and a chest/abdomen CT scan every 6 months. Anal examinations and pelvic examinations (for women) are recommended before and at the end of treatment or when considered clinically indicated. Following discontinuation of dabrafenib, monitoring for non-cutaneous secondary/recurrent malignancies should continue for up to 6 months or until initiation of another anti-neoplastic therapy.
- **Renal failure:** Patients should be routinely monitored for serum creatinine while on therapy. If creatinine increases, dabrafenib may need to be interrupted as clinically appropriate. Dabrafenib has not been studied in patients with renal insufficiency (defined as creatinine > 1.5 x ULN) therefore caution should be used in this setting.

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- **Uveitis:** Ophthalmologic reactions, including uveitis and iritis have been reported. Patients should be routinely monitored for visual signs and symptoms (such as, change in vision, photophobia and eye pain) while on therapy.
- **Pancreatitis:** Unexplained abdominal pain should be promptly investigated to include measurement of serum amylase and lipase. Patients should be closely monitored when re-starting dabrafenib after an episode of pancreatitis.
- Severe cutaneous adverse reactions: Cases of severe cutaneous adverse reactions (SCARs), including Stevens-Johnson syndrome, and drug reaction with eosinophilia and systemic symptoms (DRESS), which can be life-threatening or fatal, have been reported during treatment with dabrafenib/trametinib combination therapy. Before initiating treatment, patients should be advised of the signs and symptoms and monitored closely for skin reactions. If signs and symptoms suggestive of SCARs appear, dabrafenib and trametinib should be withdrawn.
- **Gastrointestinal disorders:** Colitis and gastrointestinal perforation, including fatal outcome, have been reported in patients taking trametinib in combination with dabrafenib. Treatment with trametinib monotherapy or in combination with dabrafenib should be used with caution in patients with risk factors for gastrointestinal perforation, including history of diverticulitis, metastases to the gastrointestinal tract and concomitant use of medications with a recognised risk of gastrointestinal perforation.
- **Fertility:** Male patients taking dabrafenib as monotherapy or in combination with trametinib should be informed of the potential risk for impaired spermatogenesis, which may be irreversible

## **DRUG INTERACTIONS:**

- Potent inducers of CYP3A4 and CYP2C8 should be avoided when possible as these agents may reduce the efficacy of dabrafenib.
- \*Dabrafenib may decrease the efficacy of hormonal contraceptives. Women of childbearing potential should use an alternate effective method of contraception during therapy and for 2 weeks following discontinuation of dabrafenib and 16 weeks following the last dose of trametinib when given in combination with dabrafenib.
- Concomitant administration of dabrafenib with warfarin may result in decreased warfarin exposure. Additional INR monitoring is required during treatment and at discontinuation of dabrafenib.
- Concomitant administration of dabrafenib with digoxin may result in decreased digoxin exposure. Additional monitoring of digoxin is required during treatment and at discontinuation of dabrafenib.
- As trametinib is metabolised predominantly via deacetylation mediated by hydrolytic enzymes its pharmacokinetics are unlikely to be affected by other agents through metabolic interactions Drugdrug interactions via these hydrolytic enzymes cannot be ruled out and could influence the exposure to trametinib.
- Trametinib is an in vitro substrate of the efflux transporter P-gp. As it cannot be excluded that strong inhibition of hepatic P-gp may result in increased levels of trametinib, caution is advised when coadministering trametininb with medicinal products that are strong inhibitors of P-gp
- Current drug interaction databases should be consulted for more information.

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Version	Date	Amendment	Approved By
1	20/03/2018		Dr Fergal Kelleher
2	01/05/2019	Updated dose modification of dabrafenib and trametinib in renal and hepatic impairment table Removed black triangle status as per SmPC update	Prof Maccon Keane
3	22/04/2020	Updated adverse effects / regimen specific complications, drug interactions as per SmPC updates	Prof Maccon Keane
4	11/11/2021	Addition of new indication for adjuvant treatment of melanoma	Dr Fergal Kelleher

## Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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