

## Systemic Anti Cancer Treatment Protocol

# Dabrafenib Malignant Melanoma

**PROTOCOL REF: MPHADAMSK  
(Version No: 1.1)**

**This protocol has been temporarily amended-please see the ORAL SACT OPERATIONAL CHANGES DURING COVID -19.**

**Amendments may include less frequent blood monitoring, telephone SACT assessments and longer durations of treatment being dispensed.**

### Approved for use in:

**Melanoma:** Advanced (unresectable or metastatic) melanoma in adults.

Patients with BRAF V600 mutation-positive unresectable or metastatic melanoma.

### Dosage:

Day	Drug	Daily dosage	Route	Schedule
Daily	Dabrafenib	150mg BD	Oral	300mg in two divided doses until disease progression/unacceptable toxicity

### Administration/directions:

- Dabrafenib oral medication will be supplied every 4 weeks.
- Patients should be encouraged to take treatments with approximately 200 mL of water under fasting conditions, either 1 hour before or 2 hours after a meal.
- Dabrafenib tablets are to be swallowed whole with water they should not be chewed or crushed.

- If a dose 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.
- Patient should avoid any food or drink containing grapefruit and grapefruit juice, Seville oranges, or pomelos within 7 days prior to start of treatment and until treatment discontinuation, as these have been shown to inhibit CYP3A4 activity.
- Patients should be made aware of potential for fatigue, dizziness or eye problems that might affect their ability to drive or operate machinery.

### **Main Toxicities:**

Pyrexia,  
Nausea & Vomiting,  
Diarrhoea,  
Headaches,  
Arthralgia,  
Reduced appetite,  
Fatigue,  
Skin rashes,  
QT prolongation,  
Cutaneous Squamous Cell Carcinoma,  
Non-Cutaneous Squamous Cell Carcinoma,  
Deranged LFT's,  
Uveitis,  
Pancreatitis,  
Photosensitivity,  
New primary melanoma,  
Renal failure,  
Rare - allergic or anaphylactic reactions.

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**Investigations:**

Investigation	Baseline	Each cycle	Month 1	Every 3 months	Follow-up (After completion)
Nursing review*		√			
Medical review	√		√	√	√
FBC	√	√			
U&Es, LFTs, LDH & Mg <sup>2+</sup>	√	√			
ECG	√	*	As indicated	As indicated	As indicated
CT scan	√			√	
Head and neck examination including oral exam. & palpation of lymph nodes	√			√	√
Skin review (cuSCC)	√	**	As indicated	As indicated	As indicated

\* If any complaints of chest pain/shortness of breath/palpitation or hypertension present – escalate to ANP/medical review for ECG.

\*\* If any rash observed/reported – escalate to ANP/medical review.

**Toxicity management:**

**Pyrexia:** Therapy with dabrafenib should be interrupted if the patient's temperature is  $\geq 38.5^{\circ}\text{C}$ . Patients should be evaluated for signs and symptoms of infection. Dabrafenib can be restarted once the fever resolves with appropriate prophylaxis using non-steroidal anti-inflammatory medicinal products or paracetamol. If fever is associated with other severe signs or symptoms, dabrafenib should be restarted at a reduced dose once fever resolves and as clinically appropriate.

Event	Adverse Event Management	Action and Dose Modification
1st	<p><u>If patient well, with no signs infection:</u></p> <ul style="list-style-type: none"> <li>Administer anti-pyretic treatment if clinically indicated and continue prophylactic treatment</li> <li>Encourage patient to increase oral fluids to prevent dehydration</li> </ul> <p><u>If patient unwell:</u></p> <ul style="list-style-type: none"> <li>Clinical evaluation for infection and hypersensitivity</li> <li>Check FBC and chem. profile</li> <li>Hydration if required</li> </ul>	<ul style="list-style-type: none"> <li><b>Interrupt dabrafenib</b></li> <li>Once pyrexia resolves to baseline, restart dabrafenib at the same dose level</li> <li>If fever was associated with dehydration or hypotension, <b>reduce dabrafenib by one dose level</b></li> </ul>
2nd	<p><u>If patient well, with no signs infection:</u></p> <ul style="list-style-type: none"> <li>Regular anti-pyretic treatment- paracetamol 1g QDS/Ibuprofen 200mg TDS x 3 days</li> <li>Encourage patient to increase oral fluids to prevent dehydration</li> <li>Consider oral corticosteroids (i.e., prednisone 10 mg) for at least 5 days or as clinically indicated</li> </ul> <p><u>If patient unwell:</u></p> <ul style="list-style-type: none"> <li>Clinical evaluation for infection and hypersensitivity</li> <li>Check FBC and chem. profile</li> <li>Hydration if required</li> </ul>	<ul style="list-style-type: none"> <li><b>Interrupt dabrafenib</b></li> <li>Once pyrexia resolves to baseline, restart dabrafenib at the same dose level</li> <li>If fever was associated with dehydration or hypotension, <b>reduce dabrafenib by one dose level</b></li> </ul>
Subsequent	<p><u>If patient well, with no signs infection:</u></p> <ul style="list-style-type: none"> <li>Regular anti-pyretic treatment- paracetamol 1g QDS/Ibuprofen 200mg TDS x 3 days</li> <li>Encourage patient to increase oral fluids to prevent dehydration</li> <li>Optimize oral corticosteroid dose as clinically indicated for recalcitrant pyrexia</li> <li>If corticosteroids have been tapered and pyrexia recurs, restart steroids</li> <li>If corticosteroids cannot be tapered consult GSK medical advisor</li> </ul> <p><u>If patient unwell:</u></p> <ul style="list-style-type: none"> <li>Clinical evaluation for infection and hypersensitivity</li> <li>Check FBC and chem. profile</li> <li>Hydration if required</li> </ul>	<ul style="list-style-type: none"> <li><b>Interrupt dabrafenib</b></li> <li>Once pyrexia resolves to baseline, restart dabrafenib <b>reduced by one dose level</b></li> <li>If dabrafenib must be reduced to &lt;75 mg BID, permanently <b>discontinue dabrafenib</b></li> </ul>

Dabrafenib should be reduced by one dose level after three episodes of pyrexia complicated by rigors, severe chills, etc., which cannot be managed by best supportive care and increasing doses of oral steroids. Escalation of dabrafenib is allowed if no episode of pyrexia is observed in the 4 weeks subsequent to dose reduction.

**Dermatologic reactions:** Skin rashes tend to occur within days of commencing treatment. Patients reporting a rash may require review by a HCP as accurate telephone assessment can be difficult. Any development of intolerable grade 2/3 rashes, then the patient may be advised to interrupt dosing until assessment. Dry skin/scalp occurs widely amongst patients, onset can be delayed or immediate. Maintaining skin integrity is vital to reduce infection risks; patients should be taught how to apply skin care products and advised to bathe in lukewarm water, avoid tight fitting clothing and to choose cotton rich garments.

In severe cases, a dermatologist review is advised.

### Skin care management plan:

	Grade	Management	Advised Treatment
1	No symptoms. Rash covering <10% BSA with or without symptoms(e.g. pruritus, burning, tightness)	Observe	Soap free washes
		Emollients	Cetraben cream
2	Symptoms: itching or soreness affecting <50% of skin surface. With or without symptoms; limiting ADLs	Antihistamines	Atarax 10 – 20 mg (sedative antihistamine)
		Emollients	Cetraben Cream
		If persistent refer to dermatologist and consider topical steroids	
		If intolerable consider Dabrafenib dose reduction (refer to Dr Marshall)	
3	Symptoms itching or soreness affecting >50% of skin surface. With or without symptoms, limiting self-care ADLs	Refer to dermatologist	
		Antihistamines	Atarax 10 – 20 mg (sedative antihistamine)
		Emollient	Betnovate Ointment BD

		Topical steroids	1% Hydrocortisone Ointment for face
		Consider oral steroids	Prednisolone 0.5mg OD (maximum 60mg/day) for 5-7days
		Interrupt dabrafenib until grade <1 (refer to Dr Marshall)	
4	Steven Johns Syndrome or toxic epidermal necrolysis, wide spread skin rash, with peeling or blister formation and mucosal involvement	<b>Immediate Dermatology referral</b>	Admission to Burns Unit under plastics team (STHK)
		Possibly admit to hospital	
		IV fluids and electrolytes	
		Stop Dabrafenib	

**Prolongation of the QT interval:** QT prolongation may lead to an increased risk of ventricular arrhythmias including Torsade de Pointes. Treatment with dabrafenib is not recommended in patients with uncorrectable electrolyte abnormalities (including magnesium), long QT syndrome or who are taking medicinal products known to prolong the QT interval.

Further monitoring is recommended in particular in patients with moderate to severe hepatic impairment monthly during the first 3 months of treatment followed by every 3 months thereafter or more often as clinically indicated.

QTc Interval	Recommended dose modification
QTc>500 ms at baseline	<b>Treatment not recommended.</b>
QTc increase meets values of both > 500 ms and >60 ms change from pre-treatment values	<b>Discontinue permanently</b>
1 <sup>st</sup> occurrence of QTc>500 ms during treatment and change from pre-treatment value remains <60 ms	Temporarily interrupt treatment until QTc decreases below 500 ms.  Resume dosing at 100mg twice daily (or 75g twice daily if the dose has already been lowered).

2 <sup>nd</sup> occurrence of QTc>500 ms during treatment and change from pre-treatment value remains <60ms	Temporarily interrupt treatment until QTc decreases below 500 ms.  Resume dosing at 480 mg twice daily (or discontinue permanently if the dose has already been lowered to 480 mg twice daily).
3 <sup>rd</sup> occurrence of QTc>500 ms during treatment and change from pre-treatment value remains <60ms	<b>Discontinue permanently</b>

### Hypertension

The choice of antihypertensive treatment should be individualised to the patient's clinical circumstances and follow standard medical practice – use NICE Clinical Guideline CG 127 – Hypertension in adults diagnosis and management

Accessible here: [https://www.nice.org.uk/guidance/CG127Hypertension in adults: diagnosis and management | Guidance and guidelines | NICE](https://www.nice.org.uk/guidance/CG127Hypertension%20in%20adults%3A%20diagnosis%20and%20management%20|%20Guidance%20and%20guidelines%20|%20NICE)

**Ophthalmologic reactions:** Monitor patients routinely for serious ophthalmologic reactions, including uveitis, iritis and retinal vein occlusion.

**Arthralgia:** Approximately 50% patients experience pain /discomfort in one or more joints that can be mild to debilitating. Arthralgia cannot be prevented; instead symptoms should be managed with regular analgesia such as paracetamol with/without NSAIDs.

**Cutaneous Squamous Cell Carcinoma (cuSCC):** Cases of cuSCC (which include those classified as keratoacanthoma or mixed keratoacanthoma subtype) have been reported in patients treated with dabrafenib.

It is recommended that all patients receive a dermatologic evaluation prior to initiation of therapy and be monitored routinely while on therapy. Any suspicious skin lesions should be excised, sent for evaluation and treated as per local standard of care. The prescriber should examine the patient monthly during and up to six months after treatment for cuSCC.

In patients who develop cuSCC, it is recommended to continue the treatment without dose adjustment. Monitoring should continue for 6 months following discontinuation of dabrafenib or until initiation of another anti-neoplastic therapy. Patients should be instructed to inform their physicians upon the occurrence of any skin changes.

**Non-Cutaneous Squamous Cell Carcinoma (non-cuSCC):** Patients should undergo a head and neck examination, consisting of at least a visual inspection of oral mucosa and lymph node palpation prior to initiation of treatment and every 3 months during treatment.

Anal examinations and pelvic examinations (for women) when considered clinically indicated.

Following discontinuation of dabrafenib, monitoring for non-cuSCC should continue for up to 6 months or until initiation of another anti-neoplastic therapy. Abnormal findings should be managed according to local clinical practices.

**New primary melanoma:** Monitoring for skin lesions should occur as outlined above for cutaneous squamous cell carcinoma.

**Photosensitivity:** All patients should be advised to avoid sun exposure and to wear protective clothing and use a broad spectrum Ultraviolet A (UVA)/Ultraviolet B (UVB) sunscreen and lip balm (Sun Protection Factor  $\geq 30$ ) when outdoors to help protect against sunburn. Sunscreen should be applied liberally to all exposed areas half an hour before going outdoors and reapplied at least every two hours.

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## Dose Modifications:

### *Recommended dabrafenib dose level reductions*

Dose level	Resulting dose/schedule
Full dose	150 mg twice daily
First reduction	100 mg twice daily
Second reduction	75 mg twice daily
Third reduction	50 mg twice daily

### *Dabrafenib dose modification schedule based on the grade of any Adverse Events (AE)*

Grade (CTCAE v4.0)	Recommended dose modification
<b>Grade 1 or Grade 2 (tolerable)</b>	Maintain dabrafenib at a dose of 960 mg twice daily.
<b>Grade 2 (intolerable) or Grade 3</b>	
<ul style="list-style-type: none"> <li>1<sup>st</sup> occurrence of any grade 2 or 3 AE</li> </ul>	Interrupt therapy until toxicity is grade 0-1 and reduce by one dose level when resuming therapy.
<ul style="list-style-type: none"> <li>2<sup>nd</sup> occurrence of any grade 2 or 3 AE or persistence after treatment interruption</li> </ul>	Interrupt therapy until toxicity is grade 0-1 and reduce by one dose level when resuming therapy.
<ul style="list-style-type: none"> <li>3<sup>rd</sup> occurrence of any grade 2 or 3 AE or persistence after 2<sup>nd</sup> dose reduction</li> </ul>	<b>Discontinue permanently</b>
<b>Grade 4</b>	
<ul style="list-style-type: none"> <li>1<sup>st</sup> occurrence of any grade 4 AE</li> </ul>	Discontinue permanently, or interrupt therapy until grade 0-1 and reduce by one dose level when resuming therapy
<ul style="list-style-type: none"> <li>2<sup>nd</sup> occurrence of any grade 4 AE or persistence of any grade 4 AE after 1<sup>st</sup> dose reduction</li> </ul>	<b>Discontinue permanently</b>

## References

[http://www.ema.europa.eu/docs/en\\_GB/document\\_library/EPAR\\_-\\_Product\\_Information/human/002604/WC500149671.pdf](http://www.ema.europa.eu/docs/en_GB/document_library/EPAR_-_Product_Information/human/002604/WC500149671.pdf)

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