



## INVESTIGATIONS

Blood results required before SACT administration  
 FBC, U&E, Mg<sup>++</sup> and LFTs and LDH every cycle  
 Neutrophils x 10<sup>9</sup>/L ≥1.5  
 Platelets x 10<sup>9</sup>/L ≥100  
 Serum creatinine - GFR each cycle  
 ECG and ECHO at baseline, 1 month then every 3 months  
 Blood pressure every cycle

## MAIN TOXICITIES AND ADVERSE REACTIONS

Dabrafenib	Cutaneous squamous cell carcinoma Hepatic toxicity New primary melanoma Non-cutaneous secondary / recurrent malignancy Renal failure Uveitis Pancreatitis QT prolongation Pyrexia
Trametinib	Cutaneous squamous cell carcinoma New primary melanoma Non-cutaneous secondary / recurrent malignancy Haemorrhage Renal failure Pancreatitis LVEF reduction, Hypertension Pyrexia

## INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS (not exhaustive list check SPC/BNF/Stockleys)

Dabrafenib	Effect of anticoagulants may be decreased. Antiviral exposure may be decreased. CYP3A4, CYP2C and CYP2B6 inducers should be avoided. Many interactions check carefully. Grapefruit and grapefruit juice should be avoided
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## DOSE MODIFICATIONS

Dose level	Dabrafenib dose	Trametinib dose
Full dose	150mg twice daily	2mg od
First reduction	100mg twice daily	1.5mg od
Second reduction	75mg twice daily	1mg od
Third reduction	50mg twice daily	1mg od

Grade (CTCAE)	Recommended dabrafenib and trametinib dose modifications except pyrexia or uveitis
Grade 1 or grade 2 (tolerable)	Continue treatment and monitor as clinically indicated.
Grade 2 (intolerable) or grade 3	Interrupt therapy until toxicity is grade 0-1 and reduce both by one dose level when resuming therapy.
Grade 4	Discontinue both permanently, or interrupt therapy until grade 0-1 and reduce both by one dose level when resuming therapy.

### Pneumonitis / interstitial lung disease

Withhold trametinib in suspected pneumonitis or interstitial lung disease, and permanently discontinue if diagnosis confirmed. No dose reduction of dabrafenib is required.

### Pyrexia

Patient's temperature is  $\geq 38.5^{\circ}\text{C}$  dabrafenib should be interrupted. Evaluate for signs and symptoms of infection. Treatment may be restarted once the fever resolves with paracetamol or non-steroidal anti-inflammatory agents. If the fever is associated with other severe signs and symptoms (e.g. severe rigors, hypotension, acute renal insufficiency), dabrafenib should be restarted with a dose reduction, or alternate day dosing, once the fever resolves, as clinically appropriate. No dose reduction of trametinib is required.

### Uveitis

No dose modifications are required for uveitis as long as effective local therapies can control ocular inflammation. If uveitis does not respond to local ocular therapy, dabrafenib should be withheld until resolution of ocular inflammation and then dabrafenib should be restarted reduced by one dose level. No dose modification of trametinib is required.

### Retinal pigment epithelial detachment (RPED)

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 improves to grade 0-1 within 3 weeks	Resume trametinib at a lower dose (reduced by 0.5mg) or discontinue trametinib in patients taking trametinib 1mg daily.
Grade 2-3 RPED that does not improve to at least grade 1 within 3 weeks	Discontinue trametinib permanently.

### Hepatic impairment

Dabrafenib and trametinib

No dose adjustment for patients with mild or moderate renal impairment.

Use in caution with severe impairment.

### Renal impairment

Dabrafenib and trametinib

No dose adjustment for patients with mild hepatic impairment.

Use with caution in moderate or severe impairment.

### REFERENCES

1. Robert, C et al; NEJM 2015; 372: 30–39
2. Long, G; NEJM 2014; 371: 1877–1888
3. Long, G et al; NEJM 2017; 377: 1813–1823 (adjuvant)