



# **REGORAFENIB** (Stivarga)

## **INDICATION (ICD10) C22, C26, C49**

Check the most recent Blueteq eligibility criteria before prescribing. Blueteq registration required. (www.england.nhs.uk/publication/national-cancer-drugs-fund-list/) (REG1)

- 1. The second line of tyrosine kinase inhibitor systemic therapy of Child-Pugh A locally advanced or metastatic hepatocellular carcinoma previously treated with sorafenib (or cabozantinib which had to be stopped within 3 months solely as a result of dose limiting toxicity in the absence of disease progression). PS 0 or 1. (TA555)
- 2. The treatment of previously treated unresectable or metastatic gastrointestinal stromal tumours following disease progression on or intolerance to imatinib and to sunitinib. PS 0 or 1. (TA488)

#### **REGIMEN**

Days 1 to 21 REGORAFENIB 160mg orally daily followed by a 7 day rest

## CYCLE FREQUENCY AND NUMBER OF CYCLES

Every 28 days until disease progression.

#### **ADMINISTRATION**

Available as 40mg tablets

Swallowed whole with water after a light low fat meal.

#### **ANTI-EMETICS**

Low emetic risk (none usually required)

#### CONCURRENT MEDICATION REQUIRED

Regorafenib	-	

## **EXTRAVASATION AND TYPE OF LINE / FILTERS**

Not applicable

#### **INVESTIGATIONS**

Blood results required before SACT administration

FBC and U&E every cycle

LFTs every 2 weeks for first 2 cycles then every cycle

Test Hepatitis B exposure before starting treatment, and refer to hepatology for lamivudine therapy.

Neutrophils x 10<sup>9</sup>/L ≥1.0

Platelets x 10<sup>9</sup>/L ≥50

Creatinine every cycle

Blood pressure every cycle

Baseline weight and every cycle

## MAIN TOXICITES AND ADVERSE REACTIONS

Regorafenib	Diarrhoea
	Hepatotoxicity
	Hypertension
	Mucositis
	Skin reactions– apply moisturizer to hands and feet regularly

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

Regorafenib	Anticoagulants and heparins may increase risk of bleeding.
	Strong CYP3A4 inhibitors - can increase exposure to regorafenib by up to
	33%. Aviod concomitant use with ketoconazole, itraconazole,
	voriconazole, clarithromycin and grapefruit juice.
	Strong UGT1AP inhibitors - avoid concomitant use of drugs such as
	mefenamic acid.
	CYP3A4 inducers - can increase metabolism of regorafenib avoid
	(rifampicin, phenytoin, carbamazepine, phenobarbital and St John's
	Wort).
	BCRP substrates: can increase exposure to drugs such as rosuvastatin,
	atorvastatin and methotrexate.

#### **DOSE MODIFICATIONS**

Dose interruptions and/or dose reductions may be required based on individual safety and tolerability. Dose modifications are to be applied in 40mg (one tablet) steps. The lowest recommended daily dose is 80mg. The maximum daily dose is 160mg.

# Haematological

Regorafenib

An increased risk of bleeding may occur while on regorafenib. Discontinue Regorafenib if any bleeding event requires medical intervention.

Non-haematological

Non-naematological			
Hepatotoxicity ALT and/or	Continue regorafenib treatment.		
AST ≤5xULN (maximum	Monitor liver function weekly until transaminases return to		
Grade 2)	<3xULN (grade 1) or baseline.		
Any occurrence			
ALT and/or	Interrupt regorafenib treatment.		
AST >5xULN-≤20xULN	Monitor transaminases weekly until return to <3xULN or		
(grade 3)	baseline.		
1 <sup>st</sup> occurrence	Restart: If the potential benefit outweighs the risk of		
	hepatotoxicity, re-start regorafenib treatment, reduce dose by		
	40mg (one tablet), and monitor liver function weekly for at least		
	4 weeks.		
ALT and/or	Discontinue treatment with regorafenib permanently.		
AST >5xULN-≤20xULN			
(grade 3)			
Re-occurrence			
ALT and/or AST	Discontinue treatment with regorafenib permanently.		
>20xULN (grade 4)			
Any occurrence			
ALT and/or AST >3xULN	Discontinue treatment with regorafenib permanently.		
(grade 2 or higher) with	Monitor liver function weekly until resolution or return to		
concurrent bilirubin >2xULN	baseline.		
Any occurrence	Exception: patients with Gilbert's syndrome who develop		
	elevated transaminases should be managed as per the above		
	outlined recommendations for the respective observed		
	elevation of ALT and/or AST.		





Skin toxicity

Grade 1	Maintain dose level and immediately institute supportive measures
Any occurrence	for symptomatic relief
Grade 2	Decrease dose by 40mg (one tablet) and immediately institute
1 <sup>st</sup> occurrence	supportive measures.
	If no improvement occurs despite dose reduction, interrupt therapy
	for a minimum of 7 days, until toxicity resolves to grade 0-1.
	A dose re-escalation is permitted at the discretion of the physician.
Grade 2 No	Interrupt therapy until toxicity resolves to grade 0-1.
improvement within 7	When re-starting treatment, decrease dose by 40mg (one tablet).
days or 2 <sup>nd</sup> occurrence	A dose re-escalation is permitted at the discretion of the physician.
Grade 2	Interrupt therapy until toxicity resolves to grade 0-1.
3 <sup>rd</sup> occurrence	When re-starting treatment, decrease dose by 40mg (one tablet).
	A dose re-escalation is permitted at the discretion of the physician.
Grade 2 4 <sup>th</sup> occurrence	Discontinue treatment with regorafenib permanently.
Grade 3	Institute supportive measures immediately. Interrupt therapy for a
1 <sup>st</sup> occurrence	minimum of 7 days until toxicity resolves to grade 0-1.
	When re-starting treatment, decrease dose by 40mg (one tablet).
	A dose re-escalation is permitted at the discretion of the physician.
Grade 3	Institute supportive measures immediately. Interrupt therapy for a
2 <sup>nd</sup> occurrence	minimum of 7 days until toxicity resolves to grade 0-1.
	When re-starting treatment, decrease dose by 40mg (one tablet).
Grade 3 3 <sup>rd</sup> occurrence	Discontinue treatment with regorafenib permanently.

# **Hepatic impairment**

Regorafenib

Regorafenib is mainly eliminated via the hepatic route.

No dose adjustment is required in patients with mild (Child Pugh A) hepatic impairment.

There is insufficient data for dose recommendation in moderate hepatic impairment (Child Pugh B) Regorafenib is not recommended in severe hepatic impairment (Child Pugh C)

# Renal impairment

Regorafenib

No dose adjustment is required in mild, moderate or severe renal impairment.

#### **REFERENCES**

- 1. Bruix, J et al; Lancet 2017; 389 (10064): 56-66
- 2. Ann Oncol. 2016 Sep;27(9):1794-9. doi: 10.1093/annonc/mdw228. Epub 2016 Jul 1. Long-term follow-up results of the multicenter phase II trial of regorafenib in patients with metastatic and/or unresectable GI stromal tumor after failure of standard tyrosine kinase inhibitor therapy. Ben-Ami E1, Barysauskas CM2, von Mehren M3, Heinrich MC4, Corless CL5, Butrynski JE1, Morgan JA1, Wagner AJ1, Choy E6, Yap JT7, Van den Abbeele AD8, Solomon SM1, Fletcher JA9, Demetri GD10, George S11.