

LENVATINIB (Lenvima)

INDICATION (ICD10) C22

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

The first line systemic therapy of Child-Pugh A locally advanced or metastatic hepatocellular carcinoma where the following criteria are met:

- 2. Either the patient has a confirmed histological diagnosis of hepatocellular carcinoma (HCC) or in which a biopsy is deemed to be very high risk or technically not feasible in the patient and the criteria below are also all met:
- a. the decision not to biopsy has been made and documented by a specialist HCC multidisciplinary team meeting
- b. the tumour meets the non-invasive diagnostic criteria of HCC.
- c. data is submitted as part of the ongoing 'Systemic Therapy Audit, previously known as the Sorafenib Audit 2'.It is expected that this option will only apply in exceptional circumstances and it should be noted that audit of non-biopsy rates will be reviewed regularly.*EASL-EORTC Clinical Practice Guidelines: Management, Journal of Hepatology 2012 vol 56 p908-943. Non-invasive criteria can only be applied to cirrhotic patients and are based on imaging techniques obtained by 4-phase multidetector CT scan or dynamic contrast-enhanced MRI. Diagnosis should be based on the identification of the typical hallmark of HCC (hypervascular in the arterial phase with washout in the portal venous or delayed phases). While one imaging technique is required for nodules beyond 1cm in diameter, a more conservative approach with 2 techniques is recommended in suboptimal settings.3. The patient has either metastatic disease or locally advanced disease that is ineligible for or failed surgical or loco-regional therapies
- 4. The patient has either:- not received any previous systemic therapy for hepatocellular carcinoma or- had to discontinue sorafenib within 3 months of starting sorafenib and solely because of toxicity (ie there was sorafenib toxicity which could not be managed by dose delay or dose modification) and there has been no disease progression whilst on sorafenib.
- 5. The patient has Child-Pugh liver function class A
- 6. The patient has an ECOG PS of 0 or 1.Lenvatinib is not commissioned in patients of ECOG PS of 2 or more.
- 7. Lenvatinib is to be used as monotherapy.
- 8. The prescribing clinician is aware of the differing starting doses of lenvatinib according to the patient body weight being above or below 60Kg
- 9. A formal medical review as to whether treatment with lenvatinib should continue or not will be scheduled to occur at least by the end of the first 8 weeks of treatment
- 10. Lenvatinib is to be continued until loss of clinical benefit or unacceptable toxicity or patient choice to stop treatment.
- 11. No treatment breaks of more than 6 weeks beyond the expected cycle length are allowed (to allow any toxicity of current therapy to settle or intercurrent comorbidities to improve).
- 12. Lenvatinib will be otherwise used as set out in its Summary of Product Characteristics.

REGIMEN

LENVATINIB 8mg (under 60kg*) orally once daily LENVATINIB 12mg (60kg* or over) orally once daily *weight at initiation of treatment

CYCLE FREQUENCY AND NUMBER OF CYCLES

Continuously until disease progression.

ADMINISTRATION

Available as 4mg capsules

Swallowed whole with water once daily with or without food

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ANTI-EMETICS

Minimal risk

CONCURRENT MEDICATION REQUIRED

Lenvatinib	Diarrhoea – Loperamide required
	Skin – apply moisturizer to hands and feet regularly

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 Neutrophils x $10^9/L \ge 1.0$ Platelets x $10^9/L \ge 50$ Creatinine every cycle Blood pressure every cycle

Baseline weight and every cycle

MAIN TOXICITES AND ADVERSE REACTIONS

Lenvatinib	Diarrhoea –Proactive management of diarrhoea including adequate hydration combined with anti-diarrhoeal medicinal products especially within the first 6 weeks of the treatment is important and should start at first signs of diarrhoea.
	Prolonged QT interval
	Hypertension
	Skin – apply moisturizer to hands and feet regularly

INTERACTIONS WHICH MAY REQUIRE DOSE MODIFICATIONS

(not exhaustive list check SPC/BNF/Stocklevs)

1	
Lenvatinib	-

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DOSE MODIFICATIONS

Non-haematological

Management of adverse reactions may require dose interruption, dose reduction, or discontinuation of lenvatinib.

Mild to moderate adverse reactions (eg Grade 1 or 2) generally do not warrant interruption, unless intolerable to the patient despite optimal management.

Permanently discontinue for any life-threatening Grade 4 toxicities, with the exception of laboratory abnormality judged to be non-life-threatening, in which case they should be managed as Grade 3.

Grade 2 intolerable or Grade 3 toxicity	Immediate management	Dose adjustment if start dose 12mg	Dose adjustment if start dose 8mg
1st occurrence ^a	Interrupt until resolved to G1-0 or baseline ^b	8mg od	4mg od
2nd occurrence (same reaction or new reaction)	Interrupt until resolved to G1-0 or baseline ^b	4mg od	4mg on alternate days
3rd occurrence (same reaction or new reaction)	Interrupt until resolved to G1-0 or baseline ^b	4mg on alternate days	Permanently discontinue

^aHaematologic toxicity or proteinuria - no dose adjustment required for 1st occurrence

Hypertension

Grade 3 (despite optimal antihypertensive	Interrupt until resolves to Grade 0, 1 or 2.	
therapy)		
Grade 4	Discontinue. Do not resume	

Blood Pressure (BP) level	Recommended action
Systolic BP ≥140 mmHg up to <160 mmHg or	Continue lenvatinib and initiate antihypertensive
diastolic BP ≥90 mmHg up to <100 mmHg	therapy, if not already receiving OR
	Continue lenvatinib and increase the dose of
	the current antihypertensive therapy or initiate
	additional antihypertensive therapy.
Systolic BP ≥160 mmHg or	1. Withhold lenvatinib
diastolic BP ≥100 mmHg	2. When systolic BP ≤150 mmHg, diastolic BP
despite optimal antihypertensive therapy	≤95 mmHg, and patient has been on a stable
	dose of antihypertensive therapy for at least 48
	hours, resume lenvatinib at a reduced dose.
Life-threatening consequences	Urgent intervention is indicated. Discontinue
(malignant hypertension, neurological deficit, or	lenvatinib and institute appropriate medical
hypertensive crisis)	management.

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^bFor haematologic toxicity, dosing can restart when resolved to Grade 2; proteinuria, resume when resolves to less than 2g/24 hours



Proteinuria ≥2gm/24 hours	Interrupt Resolves to less than 2g/24hours
Nephrotic syndrome	Discontinue. Do not resume
Renal impairment or failure, or Hepatotoxicity	Interrupt. Resolves to Grade 0-1 or baseline
Grade 3	
Renal impairment or failure, or Hepatotoxicity	Discontinue. Do not resume
Grade 4	
Cardiac dysfunction, GI perforation or fistula	Interrupt. Resolves to Grade 0-1 or baseline
Grade 3	
Cardiac dysfunction, GI perforation or fistula	Discontinue. Do not resume
Grade 4	
Non-GI fistula Grade 4	Discontinue. Do not resume
PRES/RPLS Any grade	Interrupt. Consider resuming at reduced dose if
	resolves to Grade 0-1
Arterial thromboembolisms Any grade	Discontinue. Do not resume
Haemorrhage Grade 3	Interrupt. Resolves to Grade 0-1
Haemorrhage Grade 4	Discontinue. Do not resume
QT prolongation >500ms	Interrupt. Resolves to <480ms or baseline
Diarrhoea Grade 3	Interrupt. Resolves to Grade 0-1 or baseline
Diarrhoea Grade 4 (despite medical	Discontinue. Do not resume
management)	

Hepatic impairment

Lenvatinib

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

There is no dosing recommendation (or funding) for HCC patients with moderate (Child-Pugh B) or severe (Child-Pugh C) hepatic impairment.

Renal impairment

Lenvatinib

No adjustment of starting dose is required on the basis of renal function in patients with mild or moderate renal impairment.

There is no dosing recommendation for HCC patients with CrCl <30ml/min.

REFERENCES

1. Kudo, M et al; Lancet 2018 online

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