

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/) (LNV3)

1. Monotherapy as first line systemic therapy of Child-Pugh A locally advanced or metastatic hepatocellular carcinoma ineligible for or failed surgical or loco-regional therapies. PS 0 or 1. (Lenvatinib is not commissioned in patients of ECOG PS 2 or more). (TA551)

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.

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.

ADMINISTRATION

Available as 4mg capsules

Swallowed whole with water once daily with or without food

ANTI-EMETICS

Minimal risk

CONCURRENT MEDICATION REQUIRED

Lenvatinib	Diarrhoea – Loperamide required Skin – apply moisturizer to hands and feet regularly
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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 10⁹/L ≥1.0

Platelets x 10⁹/L ≥50

Creatinine every cycle

Blood pressure every cycle

ECG at baseline, then as clinically indicated

Baseline weight and every cycle

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

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

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

Hypertension

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

Blood pressure (BP) level	Recommended action
Systolic BP ≥ 140 mmHg up to < 160 mmHg or diastolic BP ≥ 90 mmHg up to < 100 mmHg	Continue lenvatinib and initiate antihypertensive 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 diastolic BP ≥ 100 mmHg despite optimal antihypertensive therapy	1. Withhold lenvatinib 2. When systolic BP ≤ 150 mmHg, diastolic BP ≤ 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 (malignant hypertension, neurological deficit, or hypertensive crisis)	Urgent intervention is indicated. Discontinue lenvatinib and institute appropriate medical management.

Proteinuria $\geq 2\text{g}/24$ hours	Interrupt resolves to less than $2\text{g}/24\text{hours}$
Nephrotic syndrome	Discontinue. Do not resume
Renal impairment or failure, or hepatotoxicity grade 3	Interrupt. Resolves to grade 0-1 or baseline
Renal impairment or failure, or hepatotoxicity grade 4	Discontinue. Do not resume
Cardiac dysfunction, GI perforation or fistula grade 3	Interrupt. Resolves to grade 0-1 or baseline
Cardiac dysfunction, GI perforation or fistula grade 4	Discontinue. Do not resume
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 $>500\text{ms}$	Interrupt. Resolves to $<480\text{ms}$ or baseline
Diarrhoea grade 3	Interrupt. Resolves to grade 0-1 or baseline
Diarrhoea grade 4 (despite medical management)	Discontinue. Do not resume

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 $\text{CrCl} < 30\text{ml}/\text{min}$.

REFERENCES

1. Kudo, M et al; Lancet 2018 online