

## Lenvatinib – HCC Therapy

### INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	Reimbursement Status
As monotherapy for the treatment of adult patients with advanced or unresectable hepatocellular carcinoma (HCC) who have received no prior systemic therapy	C22	00644a	CDS 01/05/2021

### TREATMENT:

*The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.*

Lenvatinib is taken once daily continuously until disease progression or unacceptable toxicity develops.

Drug	Dose	Route	Cycle
Lenvatinib	8mg daily for patients < 60kg 12mg daily for patients ≥ 60 kg	PO	Continuous therapy
<p>The capsules should be taken at about the same time each day, with or without food. The capsules should be swallowed whole with water Alternatively, the lenvatinib capsules may be added without breaking or crushing them to a tablespoon of water or apple juice in a small glass to produce a suspension. The capsules must be left in the liquid for at least 10 minutes and stirred for at least 3 minutes to dissolve the capsule shells. The suspension is to be swallowed. After drinking, the same amount of water or apple juice (one tablespoon) must be added to the glass and swirled a few times. The additional liquid must be swallowed.</p> <p>If a patient misses a dose, and it cannot be taken within 12 hours, then that dose should be skipped and the next dose should be taken at the usual time of administration.</p>			

### ELIGIBILITY:

- Confirmed diagnosis of unresectable HCC with any of following criteria:
  - Histologically or cytologically confirmed diagnosis of HCC
  - Clinically confirmed diagnosis of HCC according to American Association for the Study of Liver Diseases (AASLD) criteria, including cirrhosis of any aetiology or with chronic hepatitis B or C infection criteria
- Patients categorized to stage B (not applicable for TACE) or stage C based on Barcelona Clinic Liver Cancer (BCLC) staging system.
- Child-Pugh score A
- Adequate haematological and organ function
- Adequately controlled blood pressure

### EXCLUSIONS:

- Hypersensitivity to lenvatinib or any of the excipients
- Imaging findings for HCC corresponding to any of the following:
  - HCC with ≥ 50% liver occupation
  - Clear invasion into the bile duct

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 1 of 8
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- Portal vein invasion at the main portal branch (Vp4)
- Prior treatment with any systemic chemotherapy for advanced/unresectable HCC. Note: Patients who have received local hepatic injection chemotherapy are eligible.
- Significant cardiovascular impairment
- Prolongation of QTc interval to > 480 ms
- Gastrointestinal malabsorption or any other condition that might affect the absorption of lenvatinib.
- Patients with urine protein  $\geq 1$  g /24 h

## PRESCRIPTIVE AUTHORITY:

- The treatment plan must be initiated by a Consultant Medical Oncologist

## TESTS:

### Baseline tests:

- FBC, renal and liver profiles
- Coagulation, Proteinuria <1g/24 hours, TSH
- Blood pressure
- ECG
- Virology screen -Hepatitis B (HBsAg, HBcoreAb) & C, HIV.  
\*See Adverse Effects/Regimen Specific Complications re Hepatitis B Reactivation

### Regular tests:

- FBC renal profile, Coagulation, Proteinuria, TSH every 28 days.
- Liver profile every 2 weeks for the first 2 months and monthly thereafter during treatment\*
- Calcium levels monthly
- Blood pressure should be monitored after 1 week of treatment with lenvatinib, then every 2 weeks for the first 2 months, and monthly thereafter.
- ECG as clinically indicated  
\*See Adverse Reactions/Regimen Specific Complications for more information.

### Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 2 of 8
<p>The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at <a href="http://www.hse.ie/eng/Disclaimer">http://www.hse.ie/eng/Disclaimer</a></p> <p><i>This information is valid only on the day of printing, for any updates please check <a href="http://www.hse.ie/NCCPchemoregimens">www.hse.ie/NCCPchemoregimens</a></i></p>		

## DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant.
- Table 1 shows the dose modifications for lenvatinib

**Table 1: Dose modification from recommended lenvatinib daily dose**

Starting dose		≥60 kg 12 mg (three 4 mg capsules orally once daily)	<60kg 8mg (two 4mg capsules orally once daily)
<b>Persistent and Intolerable Grade 2 or Grade 3 Toxicities<sup>a</sup></b>			
Adverse reaction	Modification	Adjusted Dose <sup>b</sup> (≥60 kg)	Adjusted Dose <sup>b</sup> (<60 kg)
First occurrence <sup>c</sup>	Interrupt until resolved to Grade 0-1 or baseline <sup>d</sup>	8 mg (two 4 mg capsules) orally once daily	4 mg (one 4 mg capsule) orally once daily
Second occurrence (same reaction or new reaction)	Interrupt until resolved to Grade 0-1 or baseline <sup>d</sup>	4 mg (one 4 mg capsule) orally once daily	4 mg (one 4 mg capsule) orally every other day
Third occurrence (same reaction or new reaction)	Interrupt until resolved to Grade 0-1 or baseline <sup>d</sup>	4 mg (one 4 mg capsule) orally every other day	Discontinue
<b>Life-threatening toxicities (Grade 4): Discontinue<sup>e</sup></b>			
<sup>a</sup> Initiate medical management for nausea, vomiting, or diarrhoea prior to interruption or dose reduction.			
<sup>b</sup> Reduce dose in succession based on the previous dose level (12 mg, 8 mg, 4 mg or 4 mg every other day).			
<sup>c</sup> Haematologic toxicity or proteinuria-no dose adjustment required for first occurrence.			
<sup>d</sup> For haematologic toxicity, dosing can restart when resolved to Grade 2; proteinuria, resume when resolves to less than 2g/24 hours			
<sup>e</sup> Excluding laboratory abnormalities judged to be nonlife-threatening, which should be managed as Grade 3.			

## Renal and Hepatic Impairment:

**Table 2: Dose modification of lenvatinib in renal and hepatic impairment**

Renal impairment:		Hepatic Impairment	
Mild	No adjustment of starting dose required	Mild Child Pugh A	No dose adjustment is required
Moderate		Moderate Child Pugh B	
Severe	No sufficient data available	Severe (Child Pugh C)	Not recommended

## Management of adverse events:

**Table 3: Management of treatment with lenvatinib related hypertension**

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

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 3 of 8

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**Table 4: Dose modification schedule based on adverse events**

Adverse Reaction	Severity	Recommended dose modification
Proteinuria	≥ 2 g/24 hours (urine dipstick)	Interrupt until resolved to < 2gm/24 hours
Nephrotic syndrome		Discontinue
Renal impairment or failure	Grade 3	Interrupt until resolved Resolves to Grade 0-1 or baseline
	Grade 4*	Discontinue
Cardiac dysfunction	Grade 3	Interrupt until resolved to to Grade 0-1 or baseline
	Grade 4	Discontinue
PRES/RPLS	Any grade	Interrupt Consider resuming at reduced dose if resolves to Grade 0-1.
Hepatotoxicity	Grade 3	Interrupt until resolved to Grade 0-1 or baseline
	Grade 4*	Discontinue
Arterial thromboembolism	Any grade	Discontinue
Haemorrhage	Grade 3	Interrupt until resolved to Grade 0-1
	Grade 4	Discontinue
GI perforation or fistula	Grade 3	Interrupt until resolved to Grade 0-1 or baseline
	Grade 4	Discontinue
Non-GI fistula	Grade 4	Discontinue
QT interval prolongation	>500ms	Interrupt until resolved to <480ms or baseline
Diarrhoea	Grade 3	Interrupt until resolved to Grade 0-1 or baseline
	Grade 4 (despite medical management)	Discontinue

\*Grade 4 laboratory abnormalities judged to be non-life-threatening, may be managed as severe reactions (e.g., Grade 3)

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 4 of 8
<p>The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at <a href="http://www.hse.ie/eng/Disclaimer">http://www.hse.ie/eng/Disclaimer</a></p> <p><i>This information is valid only on the day of printing, for any updates please check <a href="http://www.hse.ie/NCCPchemoregimens">www.hse.ie/NCCPchemoregimens</a></i></p>		

## SUPPORTIVE CARE:

**EMETOGENIC POTENTIAL:** Moderate (Refer to local policy).

**PREMEDICATIONS:** Not usually required

### OTHER SUPPORTIVE CARE:

- Anti-diarrhoeal treatment (**Refer to local policy**).
- Women of childbearing potential must use highly effective contraception while taking lenvatinib and for one month after stopping treatment. It is currently unknown if lenvatinib increases the risk of thromboembolic events when combined with oral contraceptives

## ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

*The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details.*

**This medicinal product is subject to additional monitoring. Healthcare professionals are asked to report any suspected adverse reactions.**

- **Hypertension:** Hypertension has been reported in patients treated with lenvatinib, usually occurring early in the course of treatment. Blood pressure should be well controlled prior to treatment with lenvatinib and, if patients are known to be hypertensive, they should be on a stable dose of antihypertensive therapy for at least 1 week prior to treatment with lenvatinib. Serious complications of poorly controlled hypertension, including aortic dissection, have been reported. The early detection and effective management of hypertension are important to minimise the need for lenvatinib dose interruptions and reductions. Antihypertensive agents should be started as soon as elevated BP is confirmed. The choice of antihypertensive treatment should be individualized to the patient's clinical circumstances and follow standard medical practice. For previously normotensive subjects, monotherapy with one of the classes of antihypertensives should be started when elevated BP is observed. For those patients already on antihypertensive medication, the dose of the current agent may be increased, if appropriate, or one or more agents of a different class of antihypertensive should be added. When necessary, manage hypertension as recommended in Table 3.
- **Aneurysms and artery dissections:** The use of VEGF pathway inhibitors in patients with or without hypertension may promote the formation of aneurysms and/or artery dissections. Before initiating lenvatinib, this risk should be carefully considered in patients with risk factors such as hypertension or history of aneurysm.
- **Renal failure and impairment:** Renal impairment and renal failure have been reported in patients treated with lenvatinib. The primary risk factor identified was dehydration and/or hypovolemia due to gastrointestinal toxicity. Gastrointestinal toxicity should be actively managed in order to reduce the risk of development of renal impairment or renal failure. Dose interruptions, adjustments, or discontinuation may be necessary. If patients have severe renal impairment, the initial dose of lenvatinib should be adjusted (Ref Table 2).
- **Diarrhoea:** Diarrhoea has been reported frequently in patients treated with lenvatinib, usually occurring early in the course of treatment. Prompt medical management of diarrhoea should be instituted in order to prevent dehydration. Lenvatinib should be discontinued in the event of persistence of Grade 4 diarrhoea despite medical management.
- **Cardiac Failure:** Patients should be monitored for clinical symptoms or signs of cardiac decompensation, as dose interruptions, adjustments, or discontinuation may be necessary.

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 5 of 8
<p>The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at <a href="http://www.hse.ie/eng/Disclaimer">http://www.hse.ie/eng/Disclaimer</a></p> <p><i>This information is valid only on the day of printing, for any updates please check <a href="http://www.hse.ie/NCCPchemoregimens">www.hse.ie/NCCPchemoregimens</a></i></p>		

- **Posterior reversible encephalopathy syndrome (PRES) / Reversible posterior leukoencephalopathy syndrome (RPLS):** In patients with signs or symptoms of PRES, dose interruptions, adjustments, or discontinuation may be necessary.
- **Arterial thromboembolisms:** Arterial thromboembolisms (cerebrovascular accident, transient ischaemic attack, and myocardial infarction) have been reported in patients treated with lenvatinib. Lenvatinib has not been studied in patients who have had an arterial thromboembolism within the previous 6 months, and therefore should be used with caution in such patients. A treatment decision should be made based upon an assessment of the individual patient's benefit/risk. Lenvatinib should be discontinued following an arterial thrombotic event.
- **Hepatotoxicity:** Liver-related adverse reactions most commonly reported in patients treated with lenvatinib include increases in alanine aminotransferase (ALT), aspartate aminotransferase (AST), and blood bilirubin. Hepatic failure and acute hepatitis (<1%) have been reported in patients with DTC treated with lenvatinib. The hepatic failure cases were generally reported in patients with progressive metastatic liver metastases disease. Liver function tests should be monitored before initiation of treatment, then every 2 weeks for the first 2 months and monthly thereafter during treatment. In the case of hepatotoxicity, dose interruptions, adjustments, or discontinuation may be necessary. If patients have severe hepatic impairment, the initial dose of lenvatinib should be adjusted
- **Haemorrhage:** Serious cases of haemorrhage have been reported in patients treated with lenvatinib. Cases of fatal intracranial haemorrhage have been reported in some patients with brain metastases. Screening for and subsequent treatment of oesophageal varices in patients with liver cirrhosis should be performed as per standard of care before starting treatment with lenvatinib. In the case of bleeding, dose interruptions, adjustments, or discontinuation may be necessary. The degree of tumour invasion/infiltration of major blood vessels (e.g. carotid artery) should be considered because of the potential risk of severe haemorrhage associated with tumour shrinkage/necrosis following lenvatinib therapy. In the case of bleeding, dose interruptions, adjustments, or discontinuation may be required
- **Gastrointestinal perforation or fistula:** These have been reported in patients treated with lenvatinib, mostly in patients with risk factors such as prior surgery or radiotherapy. In the case of a gastrointestinal perforation or fistula, dose interruptions, adjustments, or discontinuation may be necessary.
- **QT Interval Prolongation:** Electrocardiograms should be monitored in all patients with a special attention for those with congenital long QT syndrome, congestive heart failure, bradyarrhythmias, and those taking medicinal products known to prolong the QT interval, including Class Ia and III antiarrhythmics. Electrolyte disturbances such as hypokalaemia, hypocalcaemia, or hypomagnesaemia increase the risk of QT prolongation, therefore electrolyte abnormalities should be monitored and corrected in all patients before starting treatment. Periodic monitoring of ECG and electrolytes (magnesium, potassium and calcium) should be during treatment. Blood calcium levels should be monitored at least monthly and calcium should be replaced as necessary during lenvatinib treatment. Lenvatinib dose should be interrupted or dose adjusted as necessary depending on severity, presence of ECG changes, and persistence of hypocalcaemia.
- **Impairment of thyroid stimulating hormone suppression:** Lenvatinib impairs exogenous thyroid suppression. Thyroid stimulating hormone (TSH) levels should be monitored on a regular basis and thyroid hormone administration should be adjusted to reach appropriate TSH levels, according to the patient's therapeutic target.

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 6 of 8

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- **Wound Healing Complications:** Impaired wound healing has been reported in patients receiving lenvatinib. Temporary interruption of lenvatinib should be considered in patients undergoing major surgical procedures. The decision to resume lenvatinib following a major surgical procedure should be based on clinical judgment of adequate wound healing.
- **Osteonecrosis of the jaw (ONJ):** Cases of ONJ have been reported in patients treated with lenvatinib. Some cases were reported in patients who had received prior or concomitant treatment with antiresorptive bone therapy, and/or other angiogenesis inhibitors, e.g. bevacizumab, TKI, mTOR inhibitors. Caution should therefore be exercised when lenvatinib is used either simultaneously or sequentially with antiresorptive therapy and/or other angiogenesis inhibitors
- **Hepatitis B Reactivation:** Patients should be tested for both HBsAg and HBcoreAb as per local policy. If either test is positive, such patients should be treated with anti-viral therapy. **(Refer to local infectious disease policy).** These patients should be considered for assessment by hepatology.

## DRUG INTERACTIONS:

- It is currently unknown whether lenvatinib may reduce the effectiveness of hormonal contraceptives, and therefore women using oral hormonal contraceptives should add a barrier method.
- Current drug interaction databases should be consulted for more information.

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NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 7 of 8
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Version	Date	Amendment	Approved By
1	30/4/2021		Prof Maccon Keane

Comments and feedback welcome at [oncologydrugs@cancercontrol.ie](mailto:oncologydrugs@cancercontrol.ie).

NCCP Regimen: Lenvatinib – HCC Therapy	Published: 30/4/2021 Review: 30/4/2022	Version number: 1
Tumour Group: Gastrointestinal NCCP Regimen Code: 00644	ISMO Contributor: Prof Maccon Keane	Page 8 of 8
<p>The information contained in this document is a statement of consensus of NCCP and ISMO or IHS professionals regarding their views of currently accepted approaches to treatment. Any clinician seeking to apply or consult these documents is expected to use independent medical judgement in the context of individual clinical circumstances to determine any patient's care or treatment. Use of these documents is the responsibility of the prescribing clinician and is subject to HSE's terms of use available at <a href="http://www.hse.ie/eng/Disclaimer">http://www.hse.ie/eng/Disclaimer</a></p> <p><i>This information is valid only on the day of printing, for any updates please check <a href="http://www.hse.ie/NCCPchemoregimens">www.hse.ie/NCCPchemoregimens</a></i></p>		