LEVIATHAN

2ND LINE TREATMENT POST ATEZOLIZUMAB + BEVACIZUMAB FOR HCC:



A quick reference on key findings and clinical impact

Lenvatinib versus sorafenib as second-line treatment post atezolizumab plus bevacizumab for hepatocellular carcinoma: the LEVIATHAN study¹ A multicentre, observational study

Key eligibility criteria

Patients with HCC who received 1st line atezolizumab + bevacizumab (A+B)

- Progression on or discontinuation of A+B
- Child-Pugh liver class A
- FCOG PS <2
- No locoregional therapies during or between treatment lines
- No prior CTLA-4 inhibitors

eatment

Lenvatinib

Sorafenib (N = 105)Dosed per SHARP trial auidelines³

Endpoints^a

- mOS and mPFS from 2nd line start
- OS from the start of A+B
- Disease control rate
- Exploratory subgroup analyses by primary vs secondary resistance to A+B

Understanding LEVIATHAN in clinical context



Although the approval of 1st line IO-based therapies has transformed HCC treatment, patients who progress on these therapies remain without established 2nd line treatment options



LEVIATHAN aims to close this gap in 2nd line by advancing understanding of how to optimise treatment after intolerance or progression to atezolizumab + bevacizumab in 1st line



Not all TKIs are equal when it comes to treatment after progression or discontinuation on atezolizumab + bevacizumab 1st line

LEVIATHAN met its endpoints in survival outcomes

After a median follow-up of 29.5 months, lenvatinib was associated with superior survival outcomes compared to sorafenib

Lenvatinib maintained a consistent benefit in the propensity score-matched cohort, compared to sorafenib

and type of resistance to 1st line A+B

et al. N Engl J Med. 2008:359:378-390:

This content is intended for HCPs only.

mPFS

5.5 mo

VS

2.6 mo

HR 0.41, p < 0.001

^a To reduce bias and balance prognostic factors, a propensity score–matched analysis was performed,

1. Lombardi P, et al. JHEP Reports. 2025: 101595; 2. Kudo M, et al. Lancet. 2018;391:1163-1173; 3. Llovet JM,

AFP, alpha-fetoprotein; A+B, atezolizumab + bevacizumab; CTLA-4, cytotoxic T-lymphocyte-associated protein 4; ECOG PS, Eastern Cooperative Oncology Group performance status; HCC, hepatocellular

incorporating ECOG status, AFP level, neutrophil-to-lymphocyte ratio, portal vein thrombosis,

mOS

11.9 mo

VS

7.4 mo

HR 0.67, p = 0.018

mOS From the start of A+B

22.4 mo

VS

14.3 mo

HR 0.51, p < 0.001

Further studies are needed Observational STUDY To validate current observations LIMITATIONS



 Including other VEGFR-targeting multikinase inhibitors

To identify predictive biomarkers



Lenvatinib showed improved overall survival compared with sorafenib when used as a 2nd line treatment after disease progression on A+B

KEY CLINICAL TAKEAWAYS



The advantages persisted after propensity score matching and in patients with **primary resistance** to IO-based therapy. challenging the assumption of TKIs equivalence



LEVIATHAN supports **lenvatinib** as a **more effective** 2nd line option than sorafenib following atezolizumab + bevacizumab in unresectable HCC, including patients with primary resistance to immunotherapy







carcinoma; HR, hazard ratio; IO, immuno-oncology; mo, months; mOS, median overall survival; mPFS, median progression-free survival; OS, overall survival; TKI, tyrosine kinase inhibitor; VEGFR, vascular endothelial growth factor receptor; Scan the QR code or go to COR2ED.com This programme is supported by an independent educational grant from Eisai Europe Limited. Eisai Europe to watch the short expert video Limited has financially supported this activity and has had no influence on its creation or content.