

Efficacy and safety of tislelizumab (TIS) plus lenvatinib (LEN) as first-line treatment in patients (pts) with unresectable hepatocellular carcinoma (uHCC): a single-arm, multicenter, phase II trial

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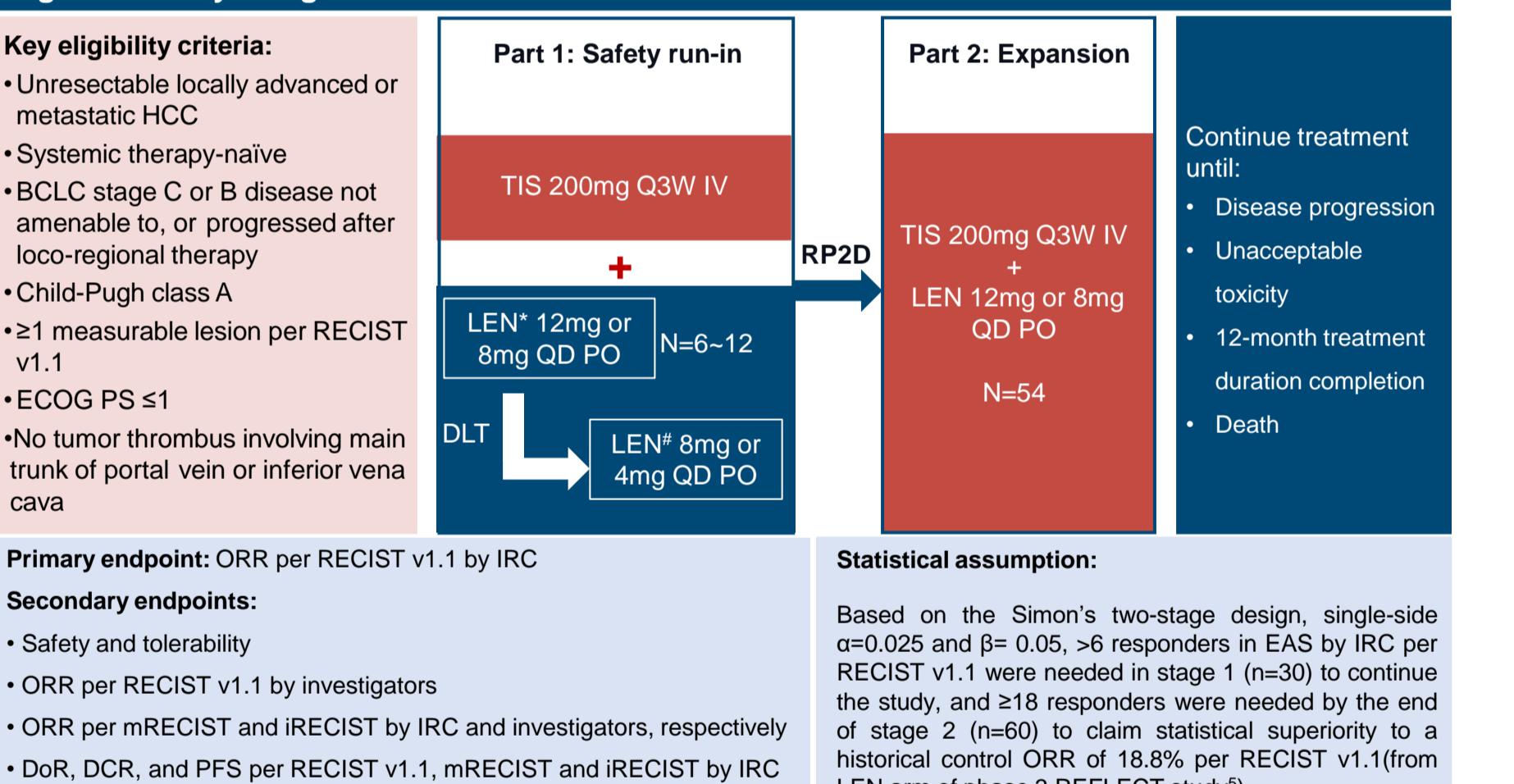
BACKGROUND

- Hepatocellular carcinoma (HCC) is estimated to be the sixth most prevalent cancer worldwide and the third leading cause of cancer-related death.¹
- Tislelizumab, an anti-PD-1 monoclonal antibody with high binding affinity for PD-1 and with minimized Fcγ receptor binding on macrophages,^{2,3} has demonstrated clinically meaningful overall survival (OS) benefit that is noninferior to sorafenib in first-line therapy of unresectable HCC (uHCC) in the international multicenter phase III RATIONALE-301 study.⁴
- Lenvatinib (LEN), a multikinase inhibitor, is a first-line treatment for uHCC based on the phase III REFLECT study.⁵
- Here, we report the primary analysis results from a phase II study of tislelizumab plus lenvatinib in patients with uHCC without previous systemic treatment.

METHODS

- BGB-A317-211 was a multicenter, open-label, single-arm phase II study (NCT04401800; Figure 1).
- The primary analysis was planned to be conducted at 6 months after the last patient was enrolled.

Figure 1. Study design



Safety analysis set (SAS): included all patients who had ≥1 dose of TIS or LEN;
Efficacy evaluable analysis set (EAS): included all dosed patients with measurable disease at baseline per RECIST v1.1 who had ≥1 post-baseline tumor assessment unless treatment was discontinued due to clinical disease progression or death before the first post treatment tumor assessment.
Starting dose: 12mg (body weight ≥60 kg) or 8mg (body weight <60 kg).
Reduced dose: 8mg (body weight ≥60 kg) or 4mg (body weight <60 kg).

RESULTS

Patients

- A total of 64 patients (Table 1) were enrolled (safety run-in part, n=6; expansion part, n= 58).
- At the data cutoff date (July 7, 2022), 14 (21.9%) patients were still undergoing study treatment.

Table 1. Baseline Characteristics (SAS, n=64)

Median age, years (range)	52.5 (28.0-70.0)	ECOG PS, n (%)	0 (62.5)
Male sex, n (%)	53 (82.8)		1 (37.5)
Region, mainland China, n (%)	64(100.0)	Child-Pugh score, n (%)	5 (90.6)
HCC etiology, HBV, n (%)	58 (90.6)		6 (9.4)
BCCL staging at study entry, B n (%)	17 (26.6)	Macrovascular invasion, n (%)	7 (10.9)
C	47 (73.4)	Extrahepatic spread, n (%)	37 (57.8)
AFP ≥ 400 ng/ml, n (%)	26 (40.6)	Local regional therapy, n (%)	47 (73.4)

CONCLUSION

- The study met its statistical superiority with tislelizumab plus lenvatinib vs historical data (lenvatinib arm of phase III REFLECT study) in the first-line setting in uHCC patients, with a confirmed ORR of 38.7% per RECIST v1.1 by IRC review.
- Tislelizumab plus lenvatinib showed a promising mPFS (9.6 months) and 6-month PFS rate (67.0%) per RECIST v1.1 by IRC review.
- Tislelizumab plus lenvatinib was generally well tolerated and no new safety signals were identified.

Efficacy

- As of cutoff date, the median study follow-up time was 12.5 months (range: 0.9, 22.1).
- Among the 62 patients in EAS, there were 23 responders in the first 60 patients, which met the statistical superiority criteria.
- Confirmed ORR per RECIST v1.1 by IRC and investigator review were 38.7% and 41.9%; DCR were 90.3% and 85.5% in EAS, respectively. The ORR per mRECIST and iRECIST were comparable with RECIST v1.1 (Table 2).
- Median DoR per RECIST v1.1 by IRC and investigator review were not reached (Figure 2); the 6-month event-free rates for DoR were 86.9% (95% CI: 56.5%, 96.6%) and 70.7% (95% CI: 47.6%, 85.0%), respectively.

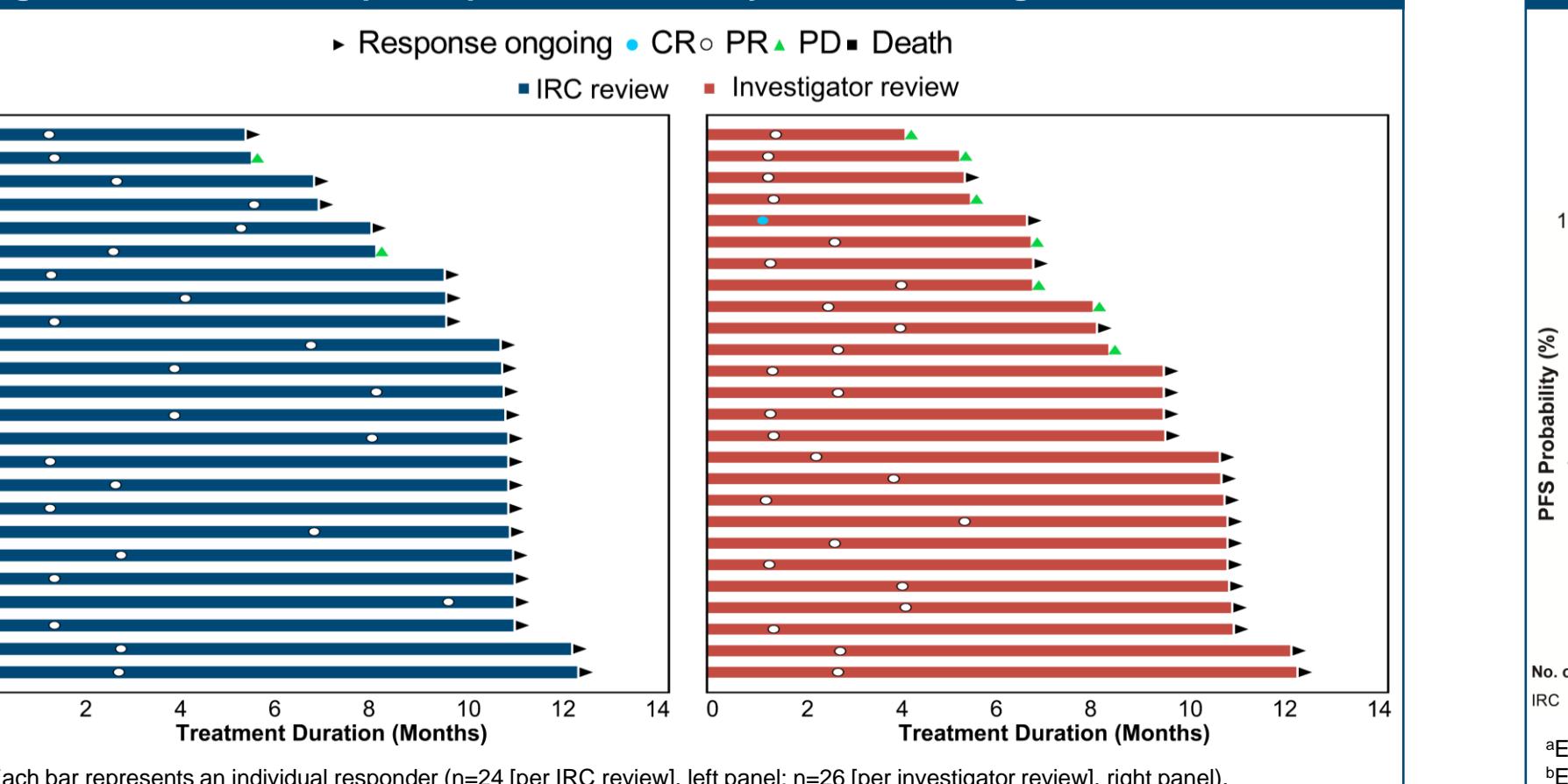
Table 2. Tumor response by IRC and investigator review per RECIST v1.1, mRECIST and iRECIST (EAS, n=62)

Confirmed ORR, n (%) [95% CI] ^a	IRC review			Investigator review		
	RECIST v1.1	mRECIST	iRECIST	RECIST v1.1	mRECIST	iRECIST
24 (38.7) [26.6, 51.9]	29 (46.8) [34.0, 59.9]	24 (38.7) [26.6, 51.9]	26 (41.9) [29.5, 55.2]	29 (46.8) [34.0, 59.9]	27 (43.5) [31.0, 56.7]	
BOR/iBOR, n (%)						
CR/ICR	0 (0.0)	0 (0.0)	0 (0.0)	1 (1.6)	1 (1.6)	1 (1.6)
PR/PR	24 (38.7)	29 (46.8)	24 (38.7)	25 (40.3)	28 (45.2)	26 (41.9)
SD/SD	32 (51.6)	27 (43.5)	32 (51.6)	27 (43.5)	24 (38.7)	28 (45.2)
PD	5 (8.1)	5 (8.1)	N/A	8 (12.9)	8 (12.9)	N/A
iUPD	N/A	N/A	2 (3.2)	N/A	N/A	3 (4.8)
iCPD	N/A	N/A	3 (4.8)	N/A	N/A	3 (4.8)
NA ^b	1 (1.6)	1 (1.6)	1 (1.6)	1 (1.6)	1 (1.6)	1 (1.6)
DCR, n (%) [95% CI] ^a	56 (90.3) [80.1, 96.4]	56 (90.3) [80.1, 96.4]	56 (90.3) [74.2, 93.1]	53 (85.5) [78.1, 95.3]	53 (85.5) [74.2, 93.1]	55 (88.7) [78.1, 95.3]

^aThe 95% CI was estimated using the Clopper-Pearson method.

^bOne patient received 1 dose TIS and LEN less than 1 cycle, died with confirmed clinical disease progression before the first radiological assessment.

Figure 2. Duration of response per RECIST v1.1 by IRC and investigator review



Safety and tolerability

- No dose-limiting toxicity (DLT) was observed in the first 6 patients.
- Treatment-related adverse events (TRAEs) at grade ≥3 were 28.1%; treatment-related serious adverse events (SAEs) were 9.4% (Table 3).
- The most common (>10%) TRAEs included proteinuria, hypertension and hypothyroidism, etc. The majority were mild and moderate (Table 4).

Table 3. Summary of TRAEs and potential imAEs (SAS, n=64)

TRAEs, n (%)	All grades ^c	Grade 3
Grade ≥3	18 (28.1)	
Serious	6 (9.4)	
Led to treatment discontinuation	2 (3.1)	
Led to death	1 (1.6)	
Led to treatment modification ^d	34 (53.1)	
Potential imAEs, n (%)	36 (56.3)	
Grade ≥3	8 (12.5)	
Serious	3 (4.7)	
Led to tislelizumab discontinuation	0 (0.0)	
Led to death	0 (0.0)	
Led to tislelizumab modification ^e	7 (10.9)	
Treated with systemic corticosteroids	4 (6.3)	

Potential imAEs are extracted from the Clinical Database based on the MedDRA look-up table from AEs reported up to 90 days after the last dose of tislelizumab.

^cTreatment modification included an interrupted/ delayed or reduced dose.

^dTislelizumab modification included an interrupted/ delayed dose.

Figure 3. Percentage change from baseline in Sums of diameters of target lesions per RECIST v1.1 by IRC and investigator review

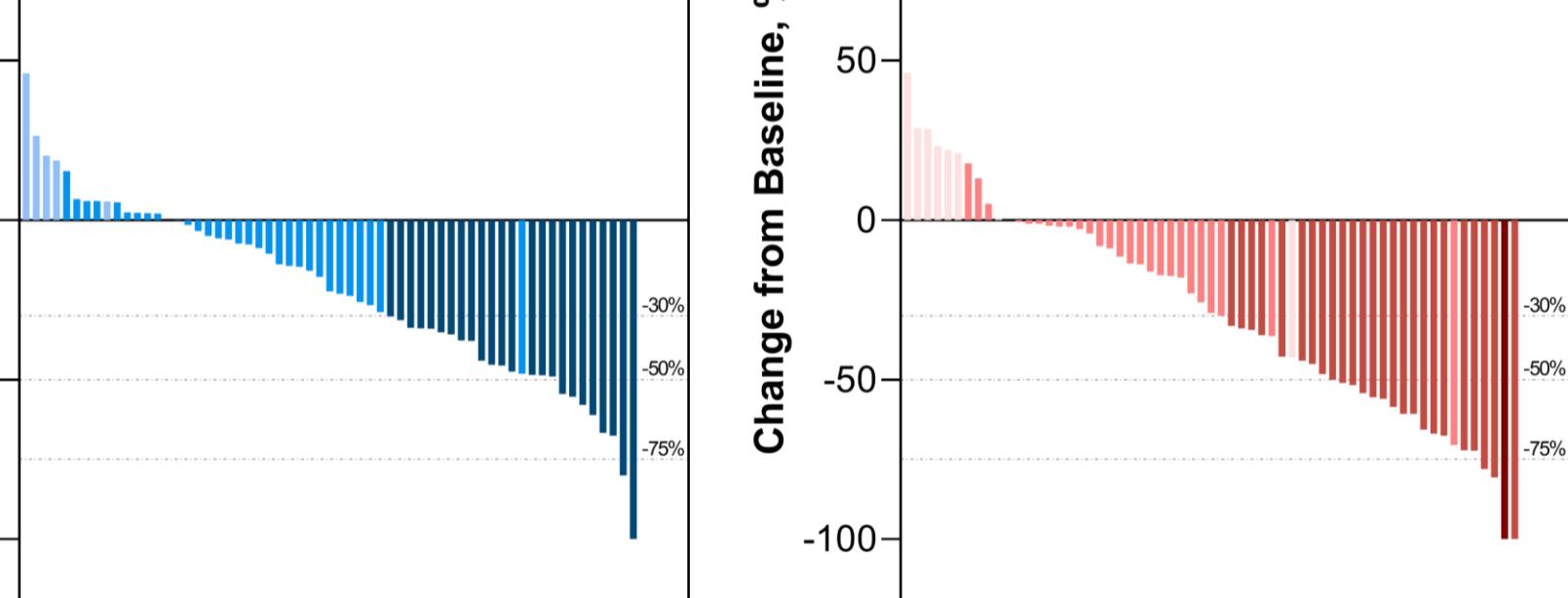


Figure 4. Kaplan-Meier plot of PFS per RECIST v1.1 by IRC and investigator review (EAS, n=62)

