Results from a phase 2 study of triplet blockade of the IL-27, PD-(L)1, and VEGF pathways with casdozokitug (casdozo, CHS-388) in combination with atezolizumab and bevacizumab in patients with unresectable, locally advanced or metastatic hepatocellular carcinoma (uHCC)

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BACKGROUND

- IL-27 is a member of the IL-12/IL-23 cytokine family comprised of IL-27p28 and EBI3 subunits. It is an immunoregulatory cytokine expressed by myeloid cells, including macrophages and dendritic cells, and dampens T and NK effector function
- IL-27 is highly expressed by tumor-associated macrophages (TAM) in several cancers, including liver (HCC) and lung (NSCLC), and suppresses antitumor immune responses
- Casdozokitug (or casdozo; CHS-388; formerly SRF388) is a first-in-class high affinity human IL-27 antagonistic antibody, which promotes immune activation and stimulates antitumor response
- In a Phase 1 study (NCT04374877), casdozo demonstrated a favorable safety profile and antitumor activity (PR) as a single agent and in combination with PD-1 blockade in indications known to have high levels of IL-27 pathway activation (NSCLC, RCC, and HCC)¹
- This open-label phase 2 trial examined the potential antitumor activity and safety of casdozo with PD-L1 and VEGF blockade in unresectable/metastatic HCC (NCT05359861). Updated clinical and biomarker data are presented

IL-27 Inhibits T and NK Cell-Driven Antitumor Response in the Tumor Microenvironment



METHODS



Baseline Cha Median age, years

Sex, n (%) Male Female Race, n (%) Asian Native Hawaii White Not reported Region, n (%) Asia excluding ROW ECOG PS, n (%) Stage, n (%) Locally advanc Metastatic Macrovascular Varices at study **Child-Pugh Score** BCLC Stage, n (%) Viral Status, n (%)

Uninfected Baseline AFP, n (% >400

Time on Therapy (n=30) 1L HCC Fully Enrolled and Data Maturing



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Baseline Characteristics

	Casdozo/Atezolizumab/Bevacizumab
acteristics	(n=30)
s (range)	66 (19, 82)
	23 (76.7)
	7 (23.3)
n ar athar Daaifia Ialandar	20 (66.7)
n or other Pacific Islander	$\left (3.3) \right $
	/ (23.3)
	2(6./)
Japan	18 (60 0)
Capan	10(00.0) 12(40.0)
	12 (40.0)
	7 (23.3)
	23 (76.7)
ed	10 (33.3)
	20 (66.7)
volvement*, n (%)	7 (23.3)
entry, n (%)	3 (10.0)
e, n (%)	
	27 (90.0)
	3 (10.0)
	6 (20.0)
•	24 (80.0)
)	
	16 (53.3)
	5 (16.7)
%	9 (30.0)
/0]	16 (57 7)
	$\frac{10}{14} (35.5)$

Macrovascular involvement = hepatic vein invasion and/or main portal vein invasior







Estimated DCR and DOR in the Response Evaluable Population mRECIST CIST v1.1 (N=28) N=29) 17 (60.7) 17 (58.6) 3 (10.7) 2 (6.9) 9 (31.0) 9 (32.1) Not reached (12.7, -) reached (6.1, .0 (100.0, 100.0) 100.0 (100.0, 100.0) 0.0 (47.3, 98.5) 90.9 (50.8, 98.7) 56.8 (14.5, 84.8) 2.0 (23.8, 92.8)

	R
DCR, n (%)	
DOR (months)	
Events, n (%)	
Censored, n (%)	
Median (95% CI)	Not
Event-free Rate at, %	
6 months (95% CI)	100.
12 months (95% CI)	90
18 months (95% CI)	72

RESULTS

Related to any treatment in the combination therapy

🔲 Grade 1 🔳 Grade 2 📕 Grade 3 📒 Grade 4 💻 Grade 5

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Poster presented at ASCO GI 2025

CONCLUSIONS

- Triplet blockade of IL-27, PD-(L)1, and VEGF pathways with casdozo/atezolizumab/ bevacizumab continues to show a manageable safety profile with promising antitumor activity in HCC that warrants continued exploration
- Casdozo in combination with atezolizumab/bevacizumab demonstrated a CR rate of 17.2% which is higher than the 3-8% CR rate reported in prior Phase 3 studies in HCC (IMbrave150 and HIMALAYA).^{8,9,10} Casdozo triplet treatment resulted in an ORR of 37.9% and a median PFS of 8.1 months achieving the efficacy thresholds for further evaluation
- Toxicity was consistent with the known profiles of atezolizumab and bevacizumab, with no new safety signals identified
- Casdozo/atezolizumab/bevacizumab treatment resulted in IL-27 signaling inhibition and immune activation in first line HCC patients in responders vs nonresponders. Immune activation biomarkers were consistent with casdozo single agent treatment
- A randomized, controlled Phase 2 study (NCT06679985) is currently underway to evaluate the efficacy of casdozo in combination with toripalimab and bevacizumab compared to toripalimab/bevacizumab alone. The toripalimab/bevacizumab combination previously demonstrated superiority over sorafenib in the recent phase 3 HEPATORCH trial¹¹

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Proteinuria

- Decreased appetite
- Diarrhoea
- Fatigue

– Rash

- Hyponatraemia
- Headache
- _ Platelet count decreased
- Pruritus
- Pyrexia Alanine aminotransferase
- increased Arthralgia
- Aspartate aminotransferase increased