# 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)

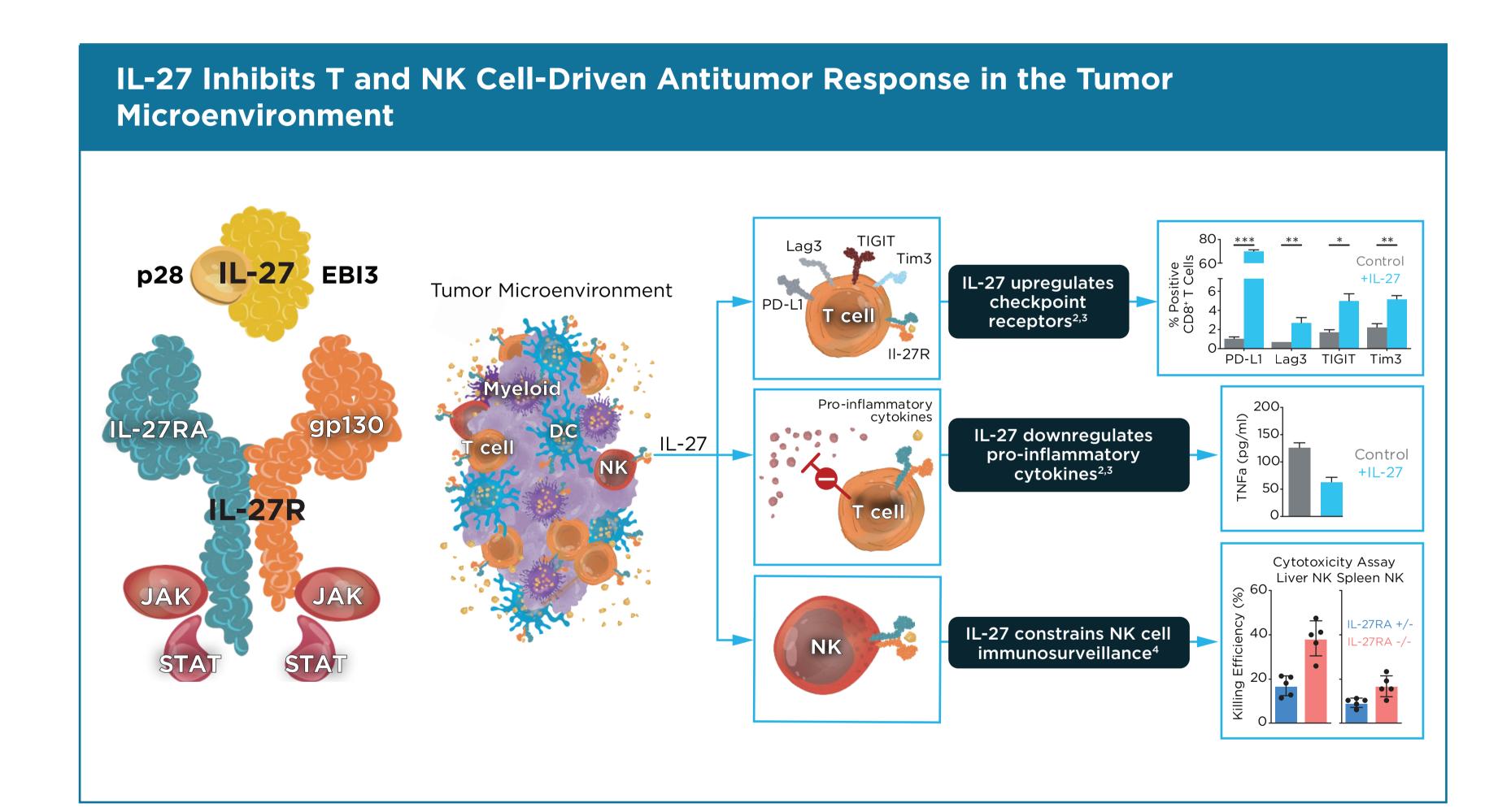


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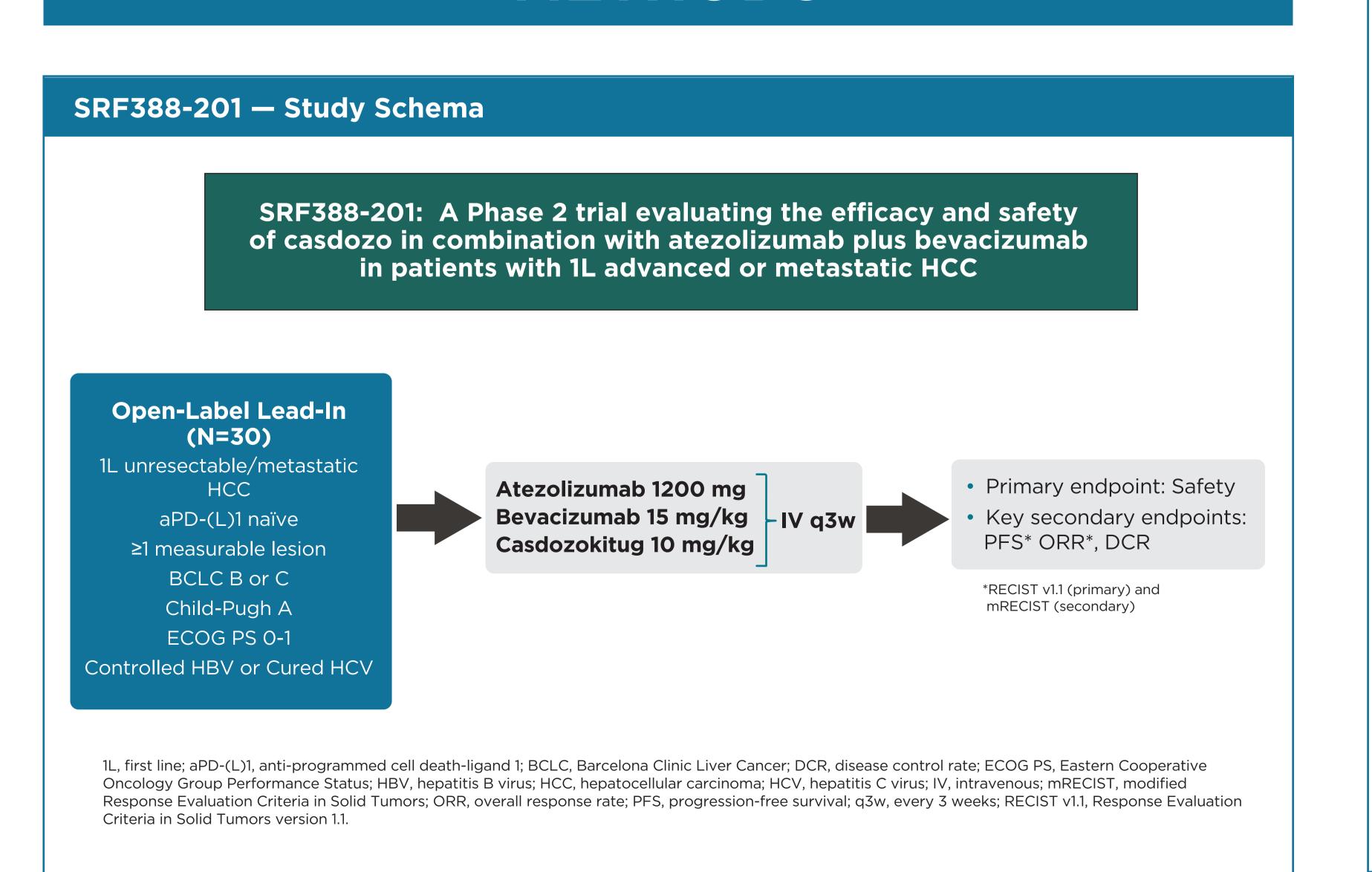
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#### BACKGROUND

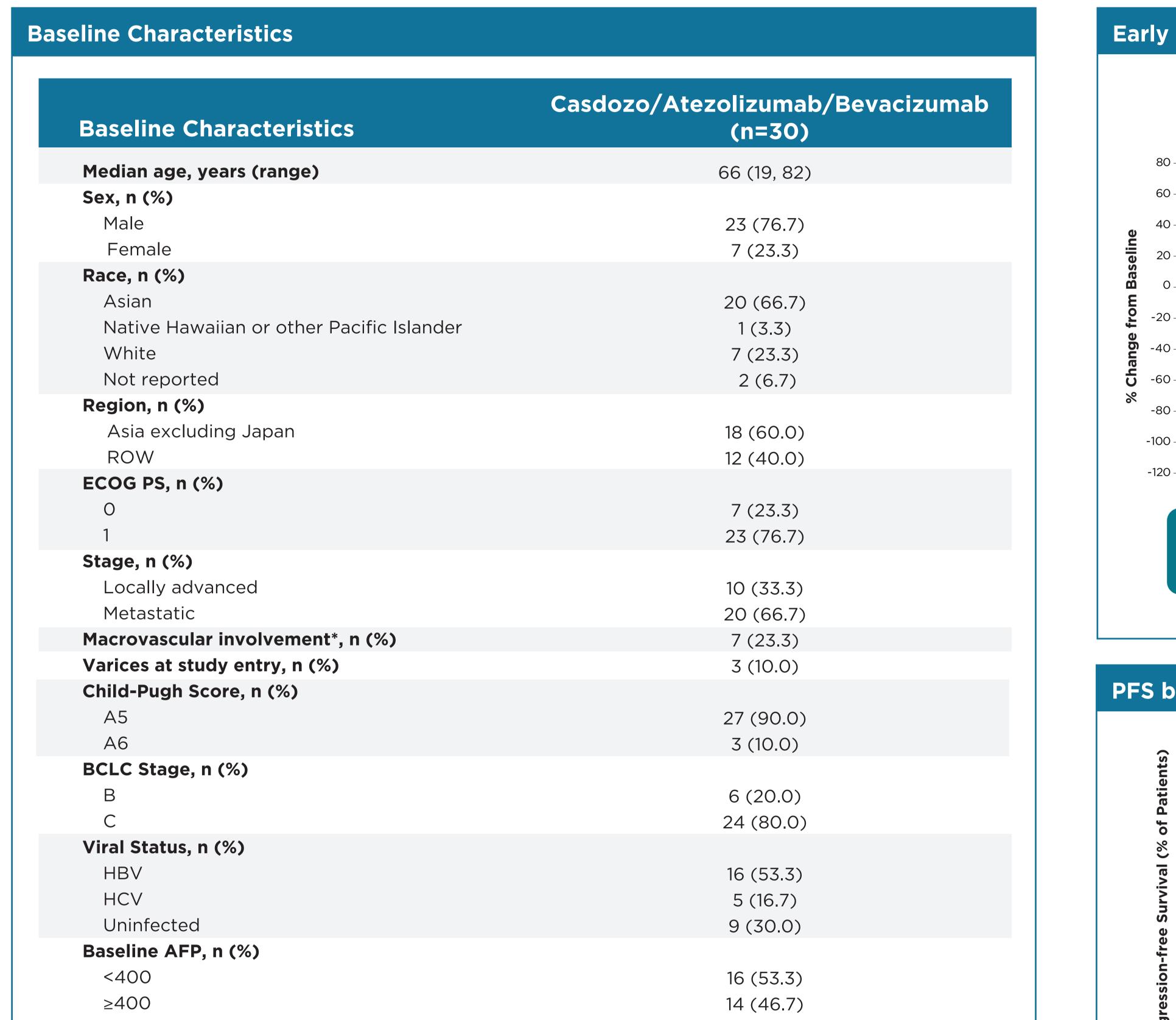
- IL-27 is a member of the IL-12/IL-23 cytokine family comprised of IL-27p28 and EBI3 subunits. It is an immunoregulatory cytokine expressed by myeloid cells, including macrophages and dendritic cells, and dampens T and NK effector
- IL-27 is highly expressed by tumor-associated macrophages (TAM) in 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)<sup>1</sup>
- 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

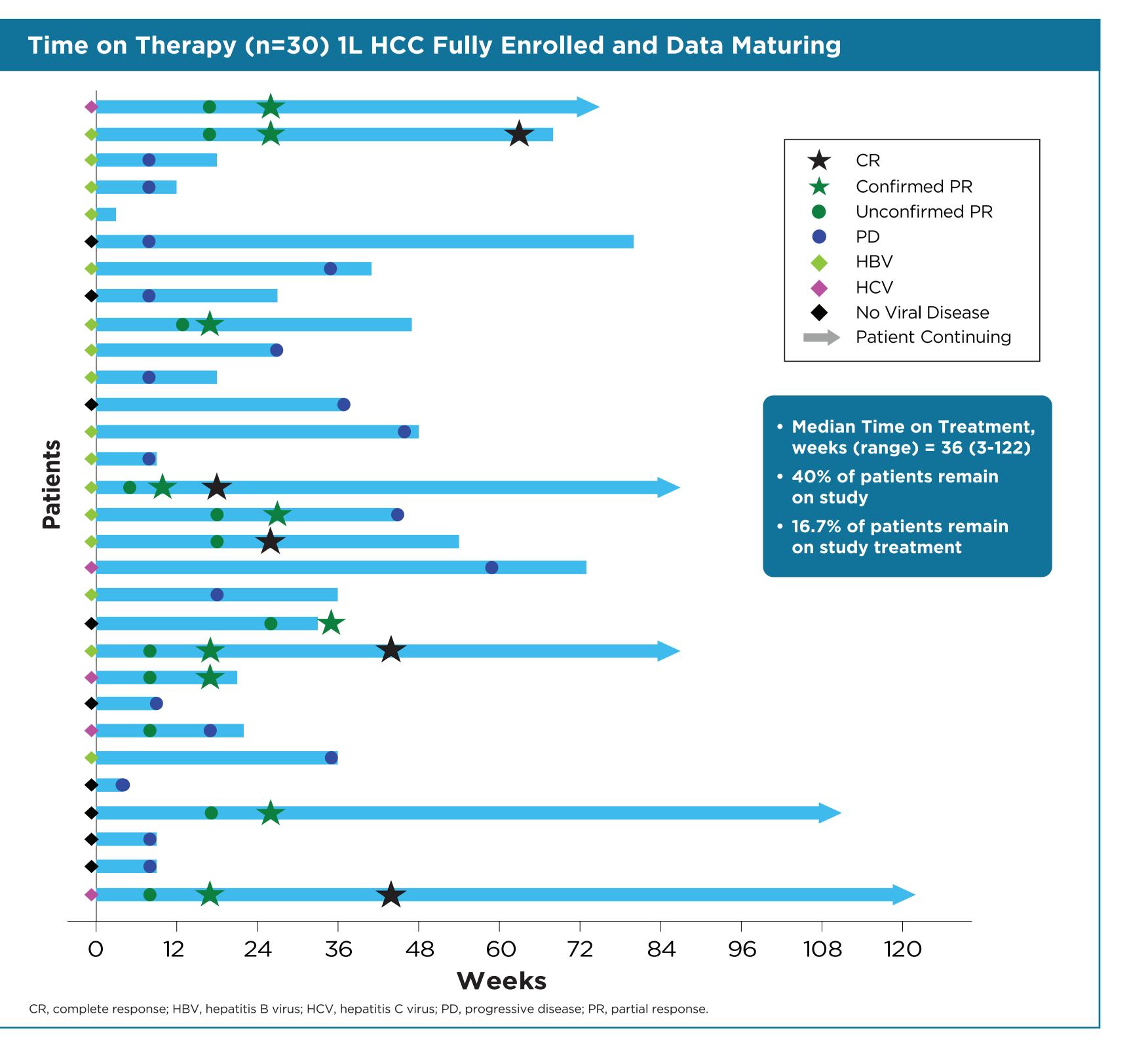


### METHODS

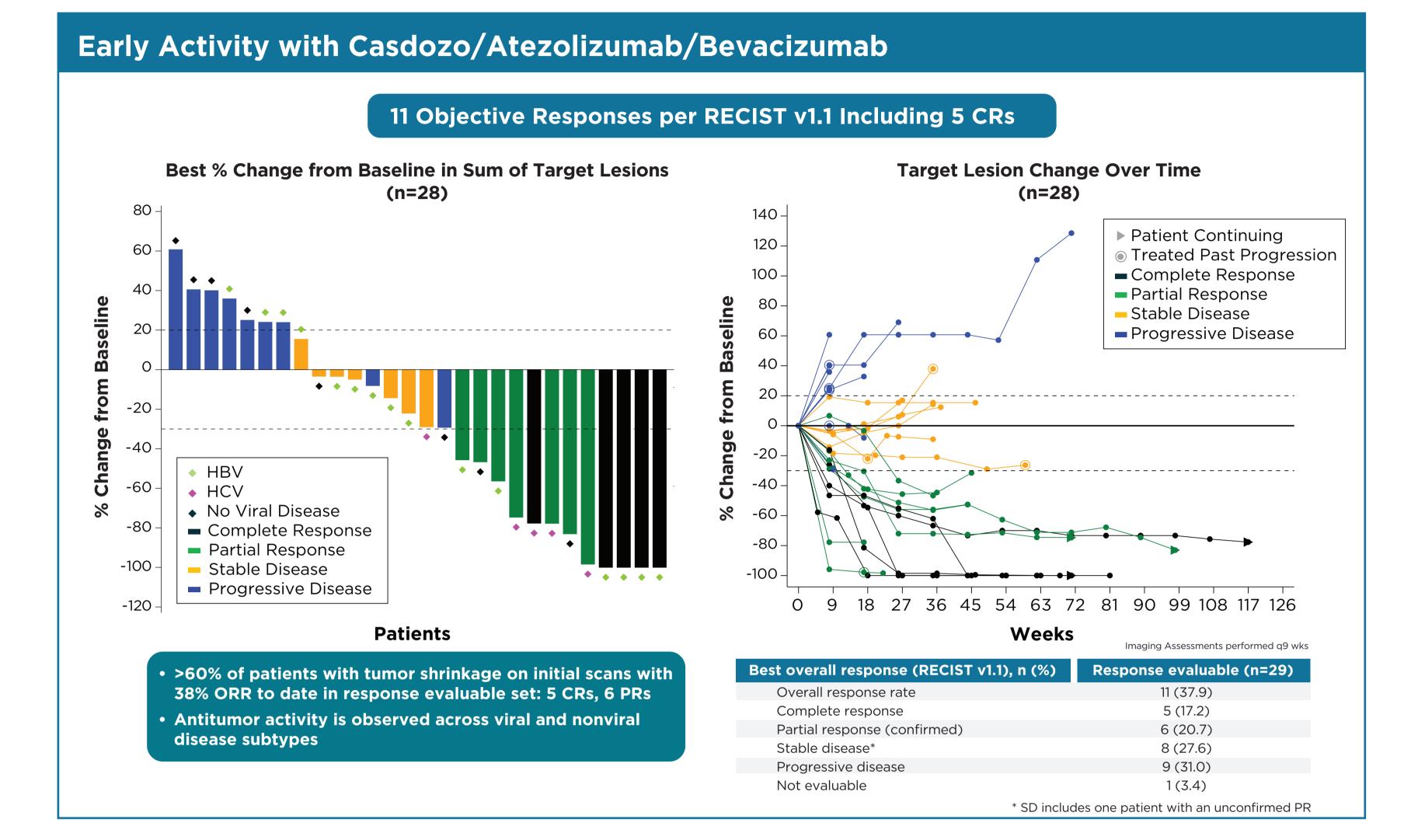


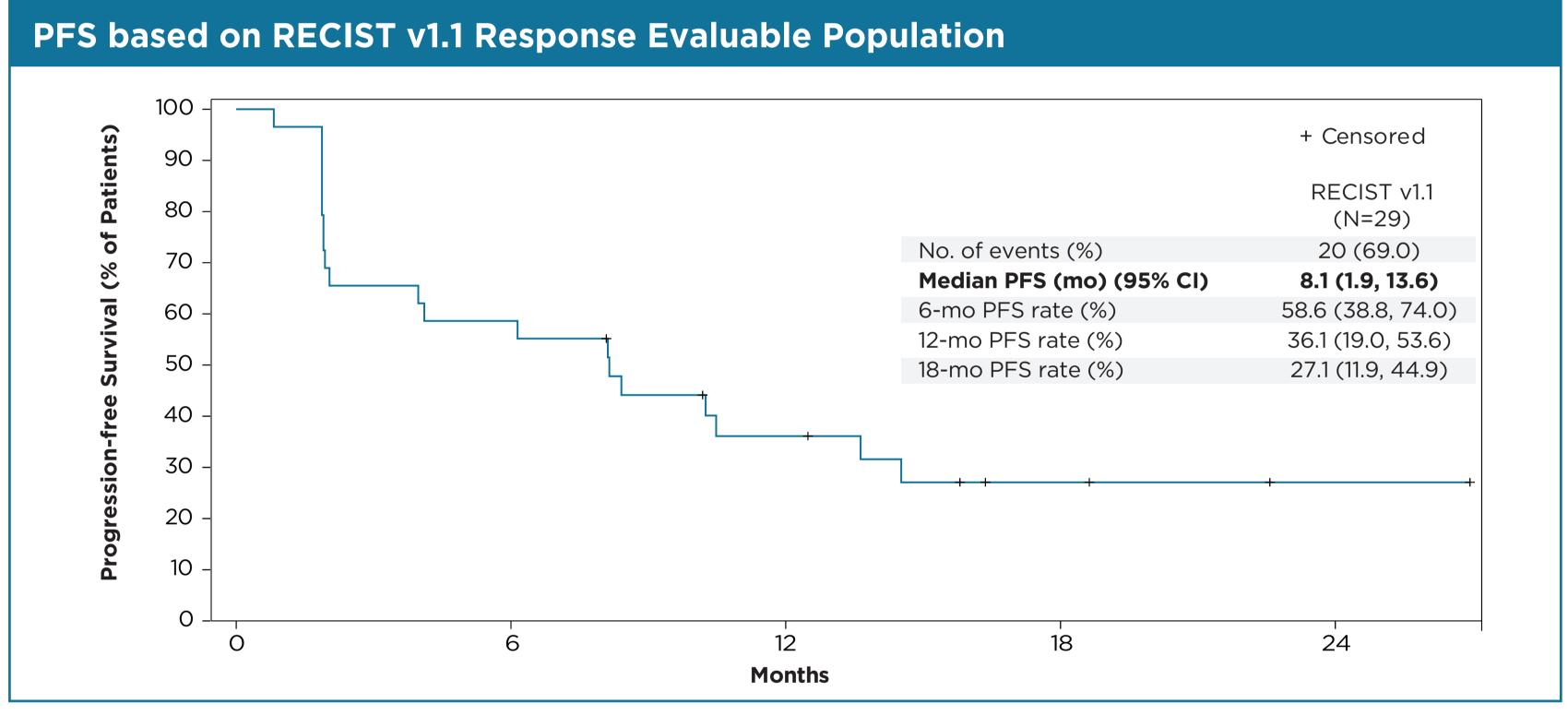
#### RESULTS

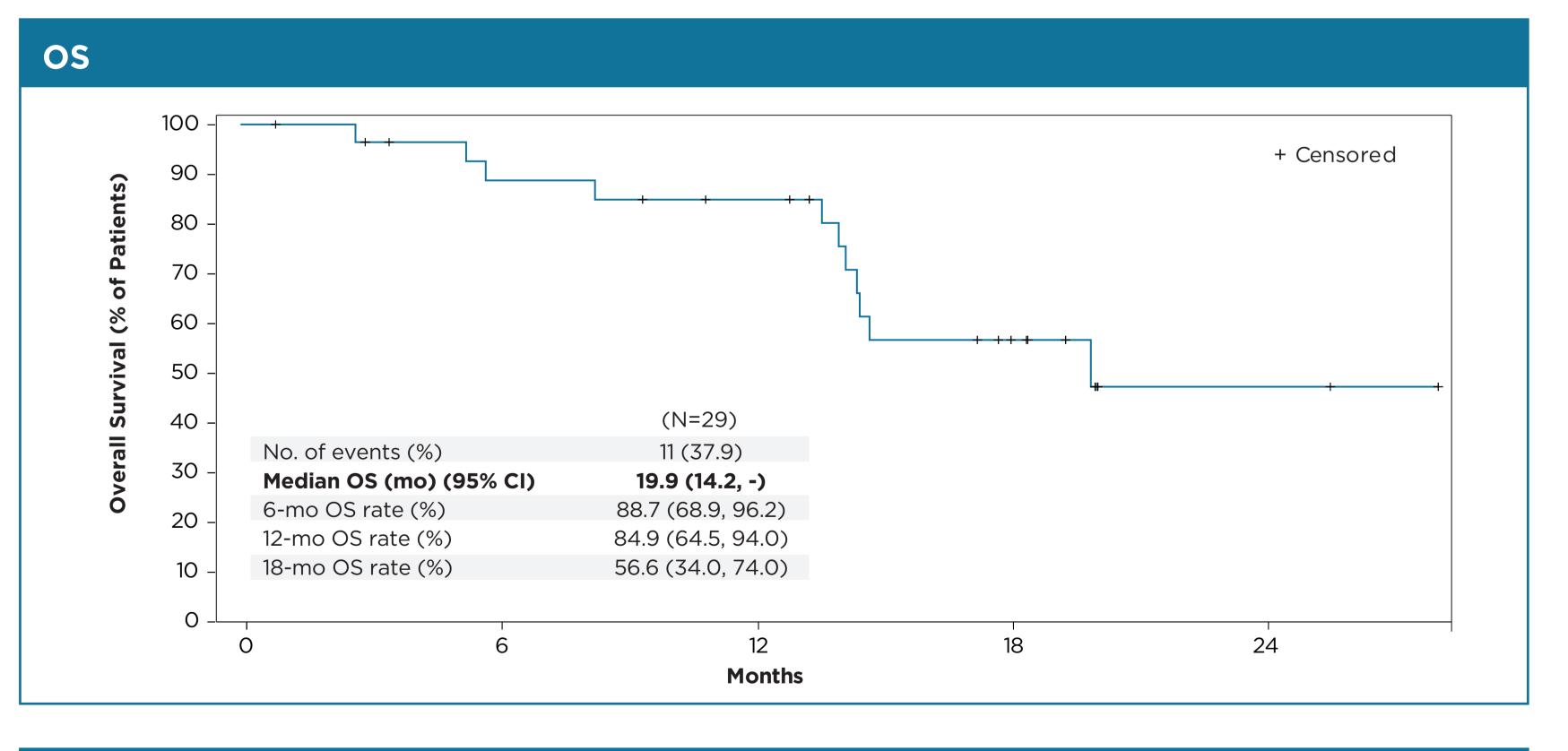


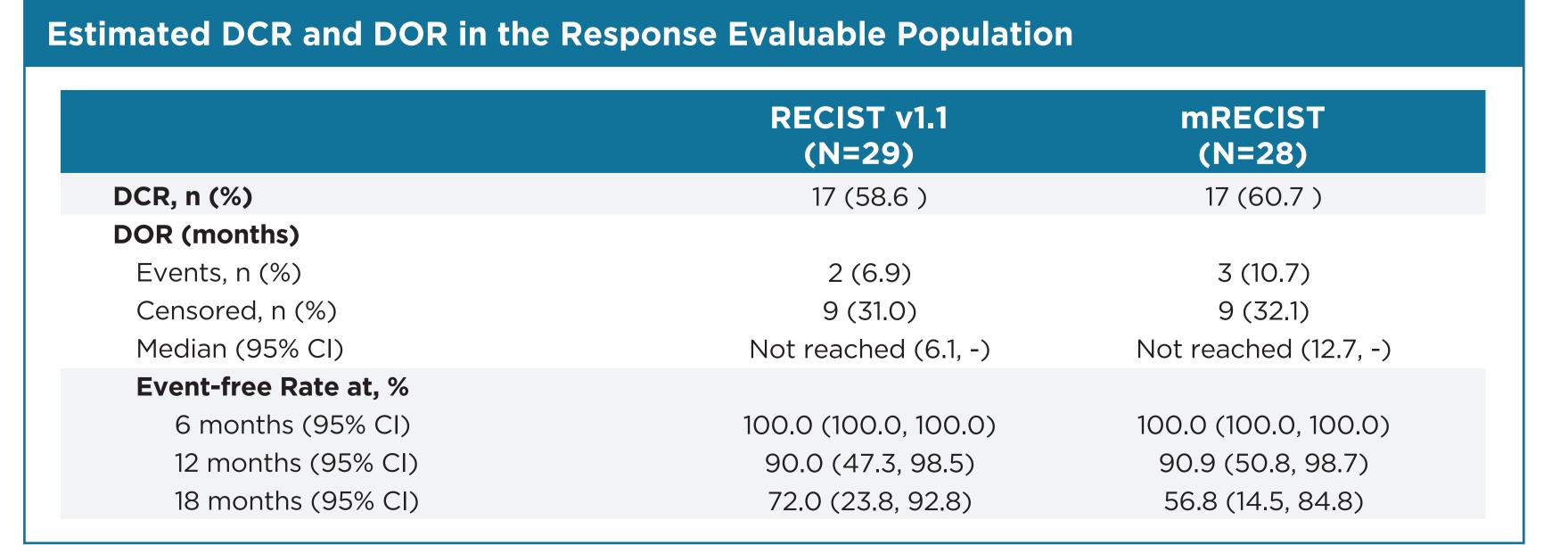


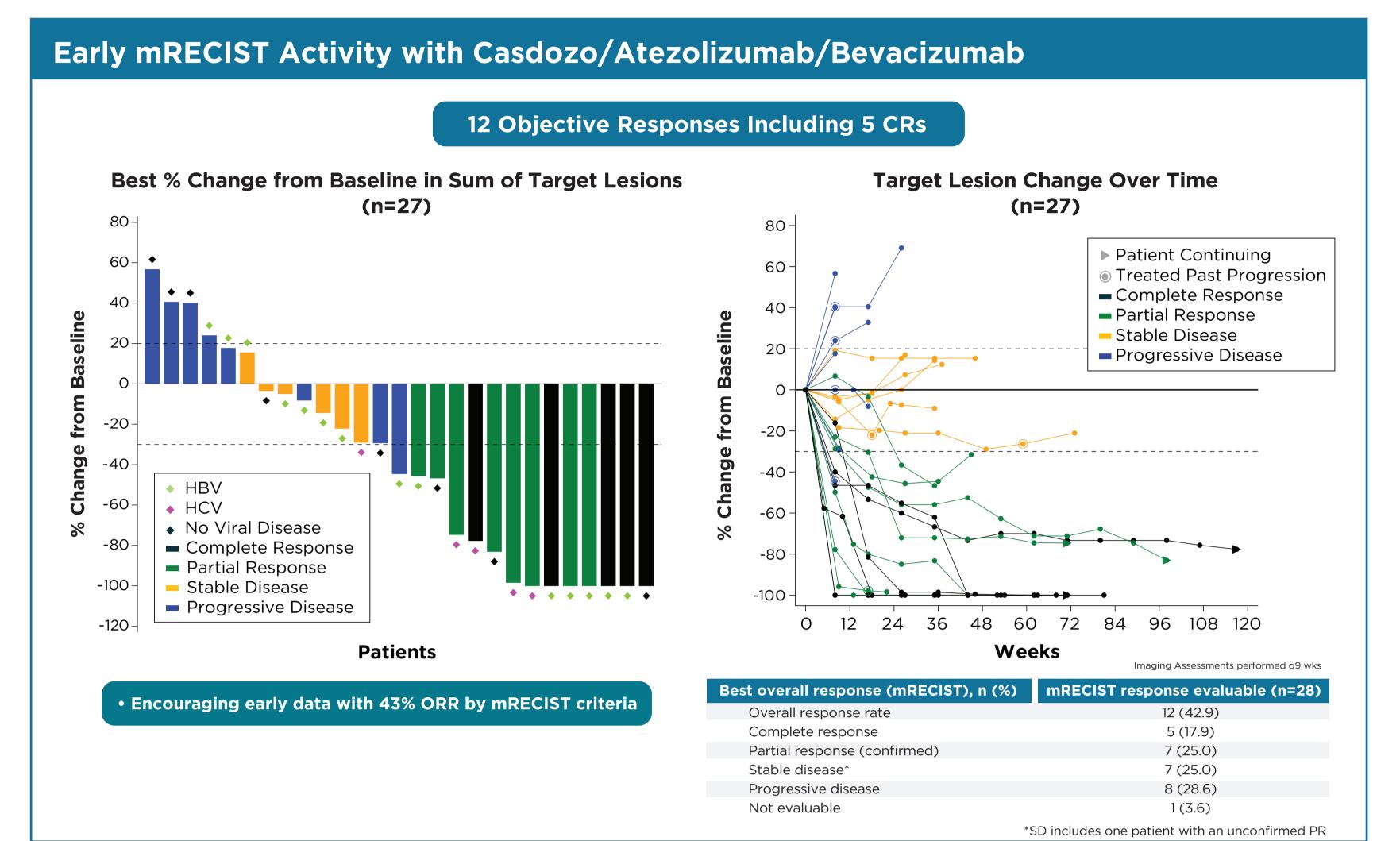
Macrovascular involvement = hepatic vein invasion and/or main portal vein invasion

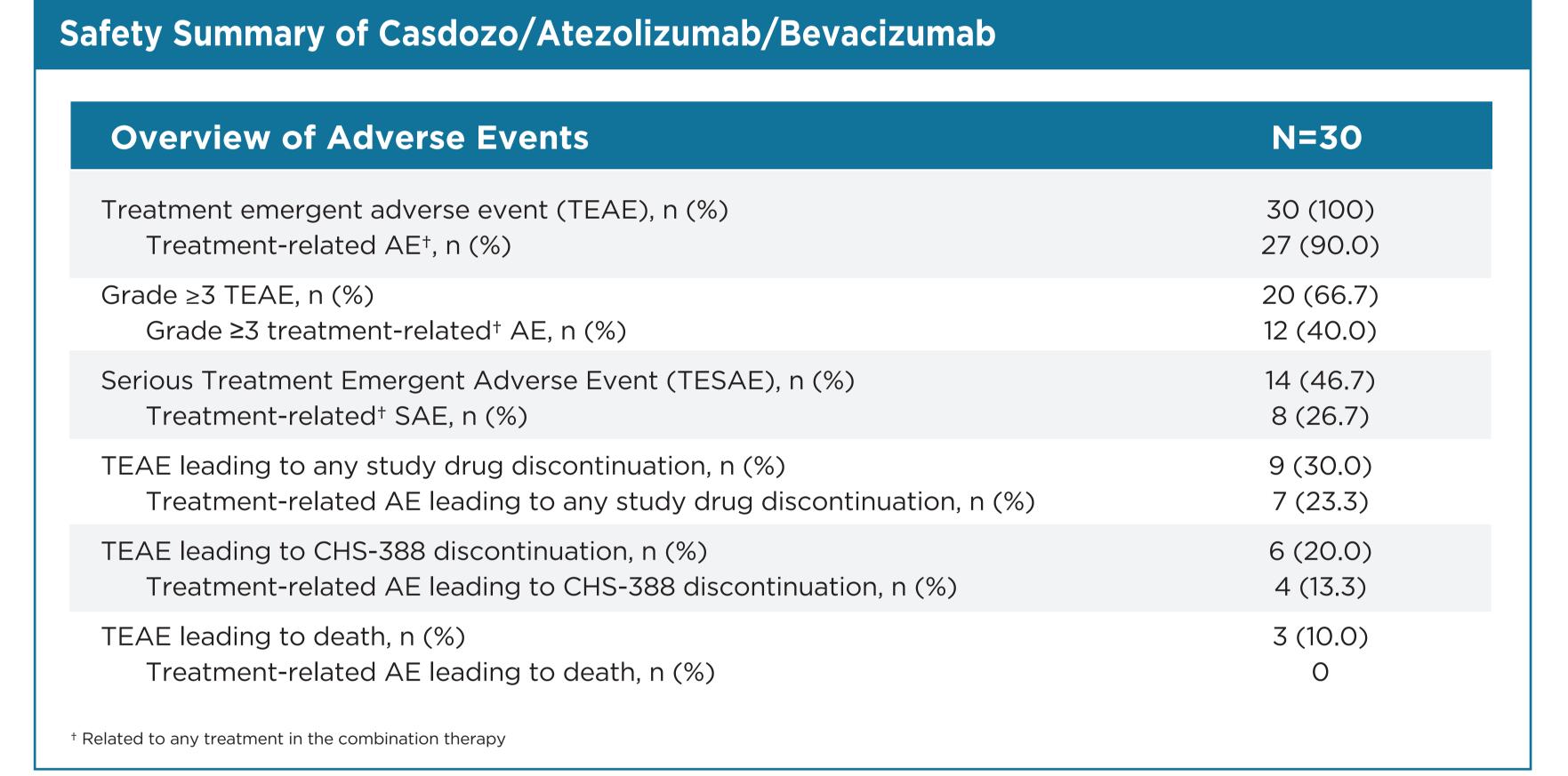


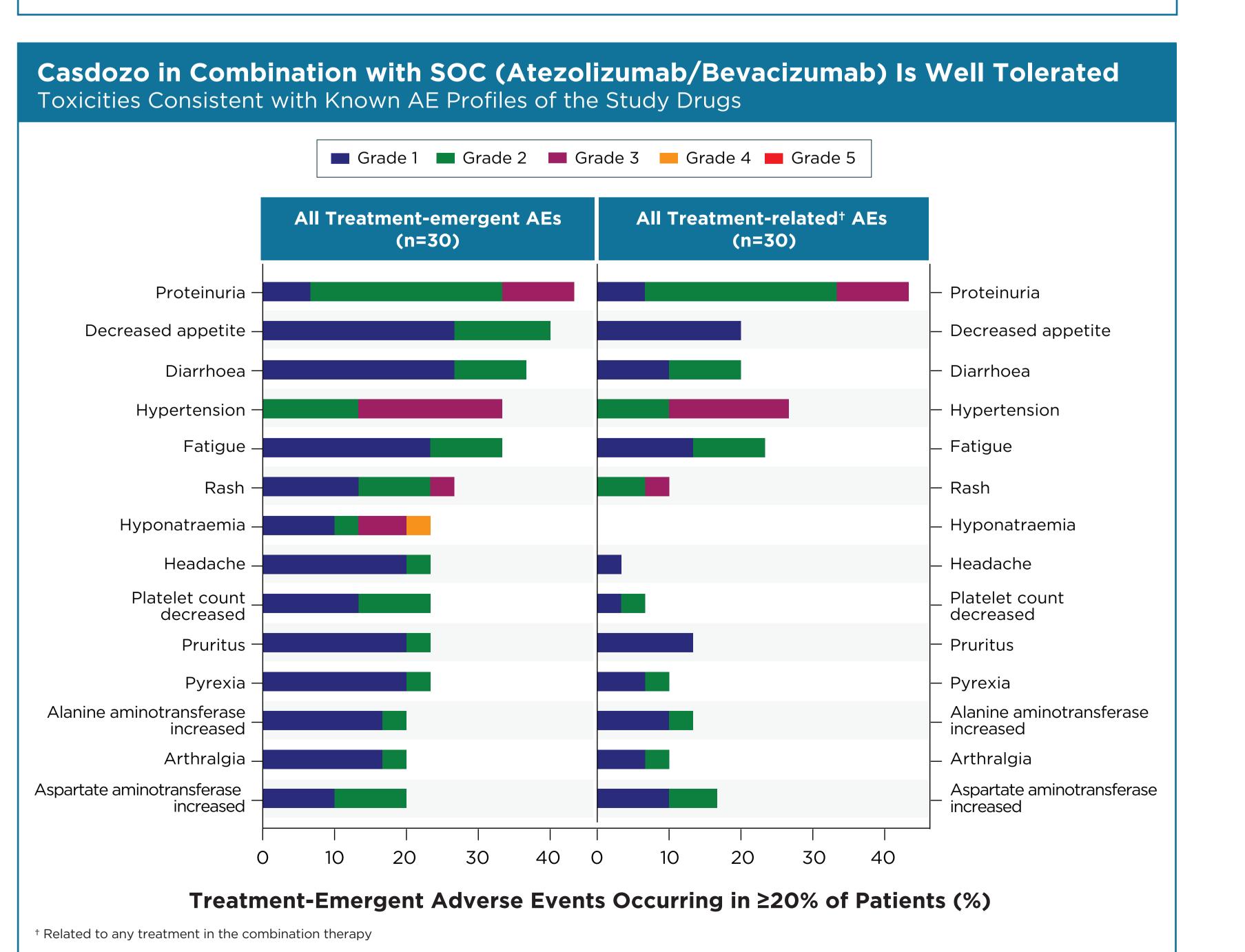




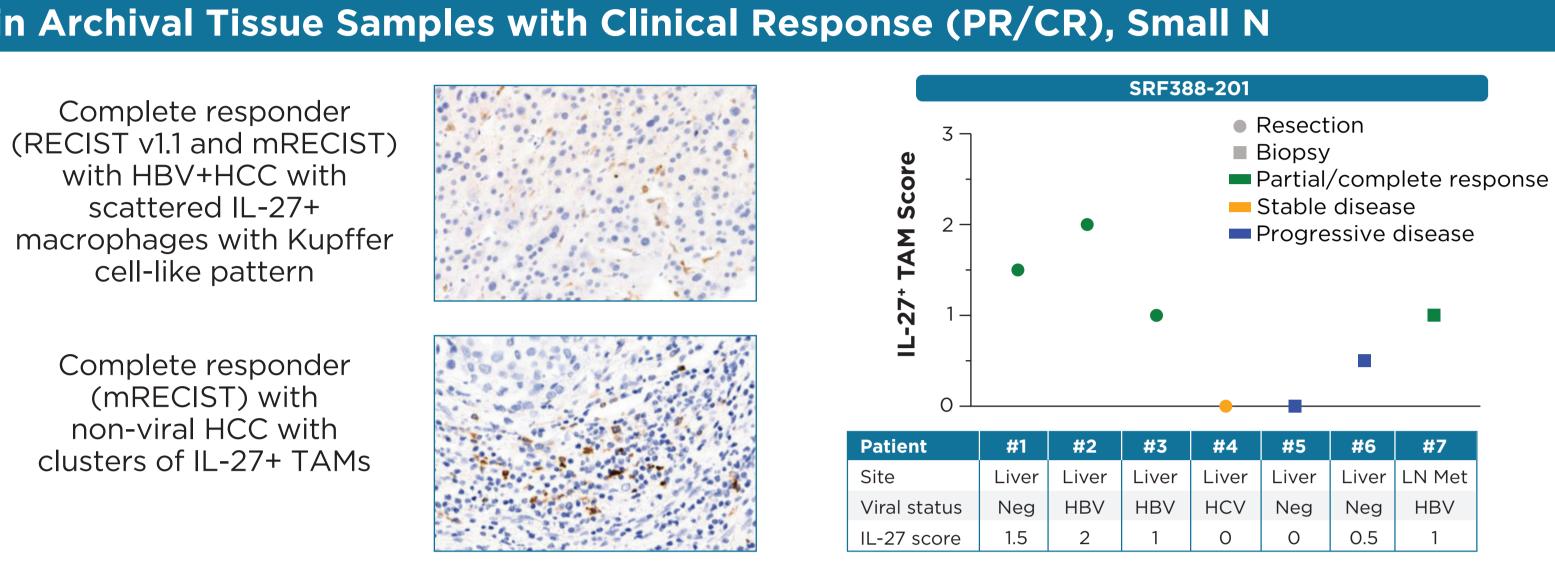






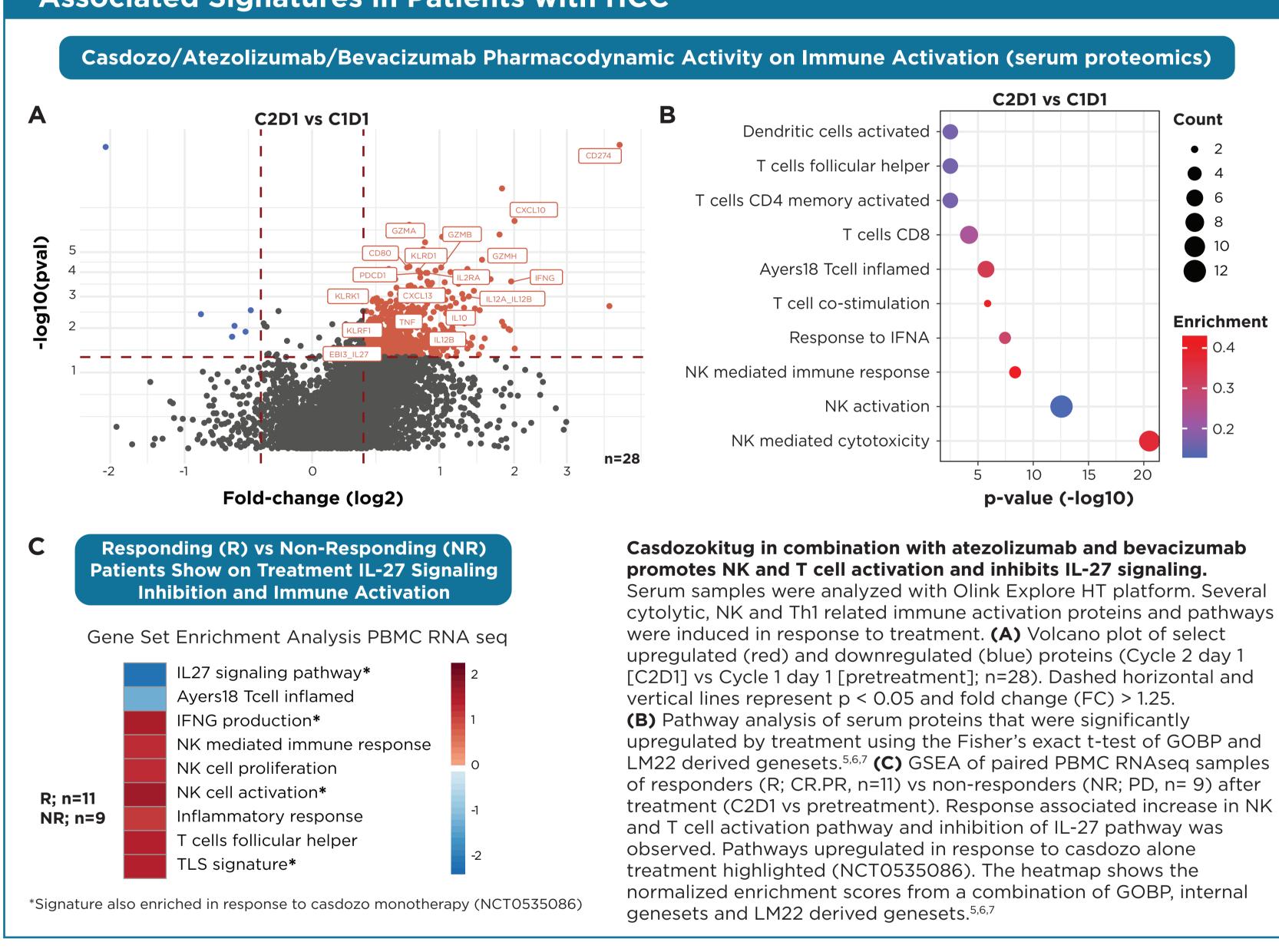






Samples were scored blindly based on semi-quantitative scoring system (0-3+) evaluating the abundance of IL-27+ tumor associated macrophages (TAM)

#### Pharmacodynamics and Casdozo/Atezolizumab/Bevacizumab Response Associated Signatures in Patients with HCC



## 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).<sup>8,9,10</sup> 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 trial<sup>11</sup>

1. Marron TU, et al. Ann Oncol. 2023;20(suppl 1): 100589-100589. 10.1016/iotech/iotech100589. 2. Chihara N, et al. Nature. 2018;558(7710) 454-459. 3. DeLong JH, et al. Immunohorizons. 2019;3(1):13-25. 4. Aghayev T, et al. Cancer Discov. 2022;12(8):1960-1983. 5. Chen B, et al. Methods Mol Biol. 2018;1711:243-259. 6. Meylan M, et al. Immunity. 2022;55(3):527-541. 7. Hill J, et al. J ImmunoTherap Cancer. 2021;9:doi: 10.1136 /jitc-2021-SITC2021.674. **8.** Finn RS, et al. *N Engl J Med*. 2020;382:1894-1905. **9.** Abou-Alfa GK, et al. *NEJM Evid*. 2022;1(8):EVIDoa2100070. 10. Cheng AL, et al. J. Hepatol. 2022;76: 862-873. 11. Yinghong S, et al. Oral presentation at: CSCO 2024; September 27, 2024; Xiamen, China.