

Clinical trial tests combination antibody therapy in adults with advanced cancer

February 26 2024



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In an early-phase clinical trial, a combination of antibody-based medications targeting the immune system generated promising safety data and anti-tumor activity in individuals with various types of

advanced cancer. The findings are [published](#) in *Cancer*.

Both medications tested in the trial support immune responses against [tumor cells](#). CS1002 increases the activation and proliferation of T immune cells by binding to a T cell receptor called CTLA-4. CS1003, also called nofazinlimab, blocks the programmed cell death protein 1 that is expressed on various types of immune cells and plays a role in suppressing the [immune system](#).

In this first-in-human multicenter, open-label study conducted from April 26, 2018, to January 18, 2022, at 9 study sites in Australia and China, phase Ia involved monotherapy dose-escalation (Part 1), which was followed by phase Ib combination therapy dose escalation (Part 2) and expansion (Part 3). Various dosing schedules of CS1002 (0.3, 1, or 3 mg/kg once every 3 weeks, or 3 mg/kg once every 9 weeks) were evaluated with 200 mg CS1003 once every 3 weeks.

Parts 1, 2, and 3 of the trial included 13, 18, and 61 patients, respectively, who had advanced/metastatic solid, relapsed, or refractory tumors. During treatment, investigators did not observe any dose-limiting toxicities or a maximum tolerated dose.

Treatment-related side effects such as diarrhea, fatigue, and rash were reported in 30.8%, 83.3%, and 75.0% of patients in Parts 1, 2, and 3, respectively. Serious side effects such as intestinal inflammation and severe skin reactions were experienced by 15.4%, 50.0%, and 18.3% of patients in each part.

Of 61 patients evaluable for treatment efficacy, 23 (37.7%) with different types of tumors experienced a positive response. Higher response rates occurred with conventional and high-dose CS1002 regimens (1 mg/kg once every 3 weeks or 3 mg/kg once every 9 weeks) compared with low-dose CS1002 (0.3 mg/kg once every 3 weeks) in

certain cancers such as melanoma and skin cancer.

"CS1002 in combination with CS1003 had manageable safety profile across a broad dosing range and showed promising anti-tumor activities across CS1002 dose levels when combined with CS1003," the investigators wrote. "This supports further assessment of CS1002 in combination with CS1003 for the [treatment](#) of solid tumors."

More information: Dual CTLA-4 and PD-1 checkpoint blockade using CS1002 and CS1003 (nofazinlimab) in patients with advanced solid tumors: A first-in-human, dose-escalation, and dose-expansion study, *Cancer* (2024). [DOI: 10.1002/cncr.35226](https://doi.org/10.1002/cncr.35226)
doi.wiley.com/10.1002/cncr.35226

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Citation: Clinical trial tests combination antibody therapy in adults with advanced cancer (2024, February 26) retrieved 27 April 2024 from <https://medicalxpress.com/news/2024-02-clinical-trial-combination-antibody-therapy.html>

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