

OBJECTIVES

**Primary**

- Safety and tolerability including dose-limiting toxicities (DLTs), adverse events (AEs), and discontinuations of study treatment due to AEs

**Secondary**

- ORR (confirmed complete response or partial response) per RECIST version 1.1 as assessed by blinded independent central review (BICR)

INTRODUCTION

The standard of care for primary systemic therapy for patients with high-grade serous ovarian cancer (HGSOC) includes platinum-based chemotherapy<sup>1</sup>; however, many patients experience disease recurrence. Recurrent HGSOC is invariably fatal, and there is a high unmet need for new therapies<sup>2</sup>

Recurrent HGSOC is considered platinum sensitive if recurrence occurs ≥6 months after completing the last dose of platinum-based therapy and platinum resistant if recurrence occurs <6 months after completing platinum-based therapy<sup>1</sup>

- Recommended treatment includes combination platinum-based chemotherapy for platinum-sensitive recurrent ovarian cancer (PSOC) and non-platinum cytotoxic agents with or without bevacizumab or targeted therapy (eg, bevacizumab or mirvetuximab soravtansine-gynx [for folate receptor α-expressing tumors]) for platinum-resistant recurrent ovarian cancer (PROC)<sup>1</sup>
- Cadherin-6 (CDH6) is overexpressed in several tumor types, including HGSOC.<sup>3</sup> In patients with cancer, overexpression of CDH6 has a role in lymph node metastases and is associated with poor prognosis; thus, it is a promising therapeutic target<sup>3,4</sup>
- R-DXd is an antibody-drug conjugate (ADC) consisting of a humanized anti-CDH6 monoclonal IgG1 antibody, an enzymatically cleavable peptide linker, and a cytotoxic topoisomerase I inhibitor (MAAA-1181a), with a target drug-to-antibody ratio of 8
- In a phase 1, first-in-human study (NCT04707248), R-DXd monotherapy showed preliminary antitumor activity and manageable safety in participants with advanced HGSOC<sup>5</sup>
  - Confirmed objective responses were observed in 18 of 37 efficacy-evaluable participants (ORR, 49% [95% CI, 32%–66%])<sup>5</sup>
  - Most AEs resolved with standard of care treatment and protocol-defined dose modification
- REJOICE-Ovarian02 (ClinicalTrials.gov, NCT06843447) is a phase 1b/2, open-label, multicenter, dose-escalation study evaluating the safety, tolerability, and preliminary antitumor activity of R-DXd combined with carboplatin or paclitaxel in participants with PSOC or combined with bevacizumab in participants with PROC
- We describe the phase 1b, dose-escalation portion of this study

METHODS

**Study design, participants, and treatment**

**Figure. REJOICE-Ovarian02 study design (phase 1b portion<sup>a</sup>)**

**Screening**

**Study Population**

- Pathologically documented diagnosis of high-grade serous epithelial ovarian, primary peritoneal, or fallopian tube cancer
- Relapse after 1–3 prior lines of therapy
- Cohort A-1 arms 1 and 2 (PSOC): radiographic disease progression ≥6 mo after last dose of platinum-based therapy
- Cohort B-1 (PROC): radiographic disease progression <6 mo after last dose of platinum-based therapy
- Measurable disease per RECIST version 1.1
- ECOG PS 0 or 1
- Adequate organ function
- No history of severe hypersensitivity reactions

**N = 3–10 per dose level<sup>b</sup>**

**Dose Escalation**

- Cohort A-1 Arm 1 (PSOC)**  
R-DXd<sup>c</sup> + Carboplatin<sup>d</sup>
- Cohort A-1 Arm 2 (PSOC)**  
R-DXd<sup>c</sup> + Paclitaxel<sup>d</sup>
- Cohort B-1 (PROC)**  
R-DXd<sup>c</sup> + Bevacizumab<sup>c</sup>

**Follow-up**

- Safety
- Efficacy
- Survival

**Assessments**

- AEs are monitored from the time of study treatment allocation until 40 days after the last dose (90 days for serious AEs in cohort B-1) and graded in severity according to National Cancer Institute Common Terminology Criteria for Adverse Events version 5.0
- DLTs are evaluated between day 1 and day 21 of cycle 1

**Table 2. Definition of DLTs**

• Grade 4 thrombocytopenia of any duration or grade 3 thrombocytopenia lasting ≥7 d
• Grade ≥3 thrombocytopenia associated with clinically significant bleeding
• Grade 4 lymphocytopenia lasting ≥14 d
• Grade 4 anemia of any duration
• Any other grade 4 hematologic toxicity lasting ≥7 d
• Grade 3 or 4 febrile neutropenia
• Grade 4 AST or ALT increases or any abnormality resulting in DILI/Hy's Law
• Grade ≥3 nonhematologic toxicities except <ul style="list-style-type: none"><li>Grade 3 nausea/vomiting or diarrhea for &lt;3 d with adequate antiemetic and other supportive care</li><li>Grade 3 fatigue for &lt;7 d</li></ul>
• The following other nonhematologic toxicities: symptomatic CHF of any grade, LVEF abnormality (decline to <40%, absolute >20% decline from baseline, or any decline from baseline leading to discontinuation of study treatment), grade ≥2 ILD or pneumonitis, any grade 3 or 4 nonhematologic laboratory value if clinically significant medical intervention is required or if the abnormality leads to hospitalization or persists for >1 wk <ul style="list-style-type: none"><li>Exceptions: clinically nonsignificant, treatable or reversible laboratory abnormalities including amylase or lipase without clinical evidence of pancreatitis, uric acid, etc</li></ul>
• Any delay in treatment with the planned dose of ≥21 d or discontinuation of study treatment due to a toxicity during the DLT evaluation period
• Grade 5 toxicity

**Table 1. Key eligibility criteria**

Inclusion criteria	Exclusion criteria
<ul style="list-style-type: none"><li>Female</li><li>Aged ≥18 y</li><li>Pathologically documented diagnosis of high-grade serous epithelial ovarian cancer, primary peritoneal cancer, or fallopian tube cancer</li><li>Relapsed disease after 1–3 prior lines of therapy</li><li>Cohort A-1 arms 1 and 2 (PSOC): radiographic evidence of disease progression ≥6 mo (≥180 d) after the last dose of platinum-based therapy</li><li>Cohort B-1 (PROC): radiographic evidence of disease progression &lt;6 mo (&lt;180 d) after the last dose of platinum-based therapy<sup>a</sup></li><li>Cohort B-1: participant is a candidate for bevacizumab treatment</li><li>Provided tumor tissue from a core or excisional biopsy of a tumor lesion not previously irradiated</li><li>Measurable disease per RECIST version 1.1</li><li>ECOG PS of 0 or 1</li><li>Adequate organ function as determined by protocol-specified laboratory values</li></ul>	<ul style="list-style-type: none"><li>Cerebrovascular accident, transient ischemic attack, or other arterial thromboembolic event &lt;6 mo before allocation</li><li>Uncontrolled or significant cardiovascular disease</li><li>Clinically severe pulmonary compromise resulting from intercurrent pulmonary illnesses</li><li>Grade ≥2 peripheral neuropathy</li><li>Prior anti-CDH6 therapy</li><li>Prior therapy with an ADC containing an exatecan derivative that is a topoisomerase I inhibitor</li><li>Prior systemic anticancer therapy within 4 wk or 5 half-lives (whichever is shorter) before allocation</li><li>Prior radiotherapy within 2 wk of first dose of study treatment, or has radiation-related toxicities requiring corticosteroids<sup>b</sup></li><li>Chronic steroid treatment (&gt;10 mg prednisone or equivalent per day)<sup>c</sup></li><li>Additional malignancy that is progressing or required active treatment within the past 3 y</li><li>Active CNS metastases and/or carcinomatous meningitis<sup>d</sup></li><li>History of (noninfectious) pneumonitis/ILD that required steroids or current pneumonitis/ILD</li></ul>

CNS, central nervous system; ILD, interstitial lung disease.

<sup>a</sup> Participants with primary platinum-refractory ovarian cancer (disease that has progressed on or within 12 weeks after the first platinum-based therapy) are not eligible.

<sup>b</sup> 2 weeks or fewer of palliative radiotherapy for non-CNS disease is permitted; the last palliative radiotherapy treatment must have been performed ≥7 days before the first dose of study treatment.

<sup>c</sup> With the exception of inhaled steroids for asthma or chronic obstructive pulmonary disease, mineralocorticoids for participants with orthostatic hypotension, topical steroids for mild skin conditions, low-dose supplemental corticosteroids for adrenocortical insufficiency, premedication for treatment groups and/or premedication in case of any hypersensitivity, and intra-articular steroid injections.

<sup>d</sup> Participants with previously treated brain metastases are eligible provided they are radiologically stable for ≥4 weeks as confirmed by repeat imaging performed during the study screening, are clinically stable, and have not required steroid treatment for ≥14 days before the first dose of study treatment.

Poster

Plain Language Summary

https://bit.ly/3ZFazZ7

https://bit.ly/3HaxR7R

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