

IDEate-PanTumor02: A Phase 1b/2 study to evaluate the efficacy and safety of ifinatamab deruxtecan (I-DXd) in patients with recurrent or metastatic solid tumors

Takahiro Kogawa,¹ Seiichiro Mitani,² David Berz,³ Diego Gomes Candido Reis,⁴ Cindy Li,⁵ Tatiane Ishida,⁵ Keyi Wang,⁵ Jasmeet Singh,⁵ Kristi Schmidt,⁶ Shigehiro Koganemaru⁷

¹Department of Advanced Medical Development, The Cancer Institute Hospital of JFCR, Tokyo, Japan; ²Department of Medical Oncology, Kindai University Hospital, Osaka, Japan; ³Valkyrie Clinical Trials, Los Angeles, CA, USA; ⁴Daiichi Sankyo Europe GmbH, Munich, Germany; ⁵Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; ⁶Merck & Co., Inc., Rahway, NJ, USA; ⁷Department of Experimental Therapeutics, National Cancer Center Hospital East, Kashiwa, Japan.

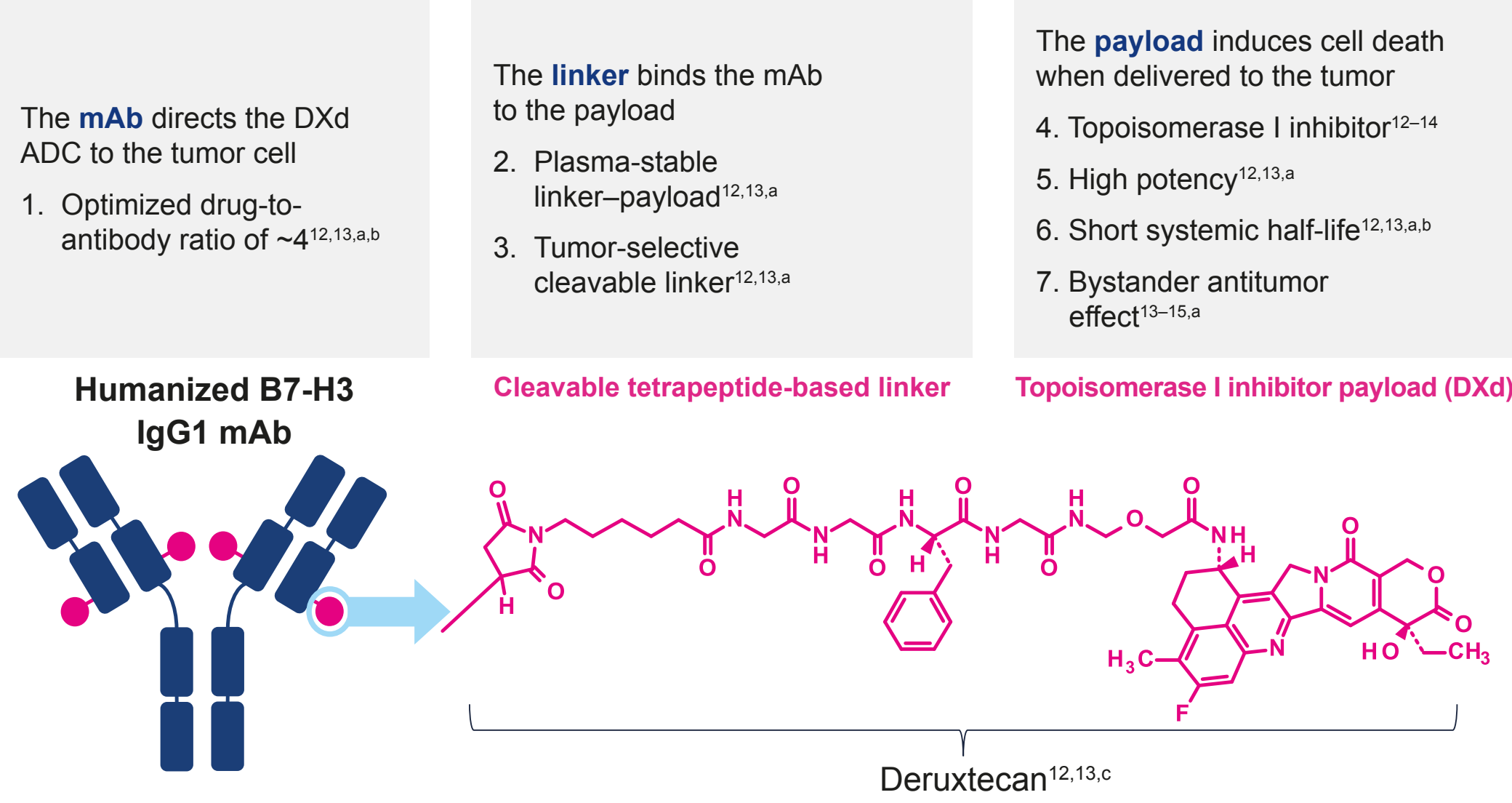
OBJECTIVES

- IDEate-PanTumor02 (NCT06330064)¹ is a global, multicenter, open-label, single-arm, parallel-cohort, Phase 1b/2 study in up to 530 adults with recurrent or metastatic solid tumors
- The study will evaluate the efficacy and safety of I-DXd in patients with recurrent or metastatic solid tumors who have received ≥1 prior line of systemic therapy for the selected tumor indication¹

INTRODUCTION

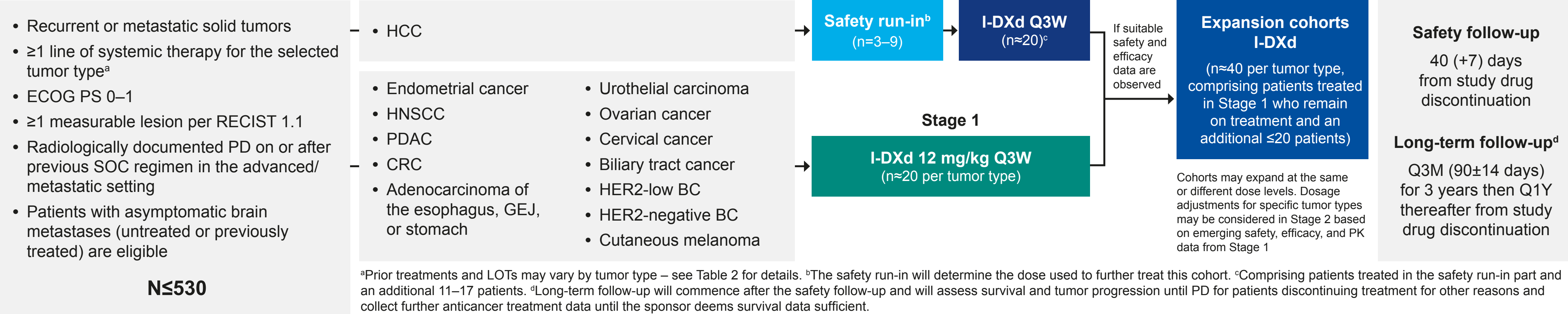
- B7-H3 (CD276), a type 1 transmembrane protein belonging to the B7 family, shows minimal or no expression in normal tissues but is highly expressed in many solid tumors^{2–4}
- High B7-H3 expression is associated with poorer prognosis and shorter OS compared with absent or low B7-H3 levels in multiple tumor types^{4–11}
- I-DXd is a B7-H3–directed ADC comprising a B7-H3 mAb linked to a topoisomerase I inhibitor payload (DXd) via a stable cleavable linker, designed to enhance selective tumor-cell death and reduce systemic exposure to the payload¹² (**Figure 1**)

Figure 1. I-DXd was designed with 7 key attributes



- In the Phase 1/2 IDEate-PanTumor01 study (NCT04145622), which included 10 different solid tumor types, I-DXd demonstrated promising efficacy among 139 heavily pretreated patients treated at doses of 4.8–16.0 mg/kg, with an ORR of 27.3%¹⁶
 - Objective responses to I-DXd were observed in 6 of the 7 tumor types in which ≥5 patients were enrolled (SCLC, ESCC, mCRPC, sqNSCLC, HNSCC, and endometrial cancer), with stable disease being the best overall response observed in the seventh tumor type (sarcoma)^{13,16}
- In the dose-optimization part of the Phase 2 IDEate-Lung01 study (NCT05280470), I-DXd demonstrated promising efficacy in 88 patients with pretreated ES-SCLC, with better outcomes at the 12-mg/kg than the 8-mg/kg dose level¹⁷:
 - 8 mg/kg (n=46): ORR, 26.1%; median OS, 9.4 months (median follow-up, 14.6 months)
 - 12 mg/kg (n=42): ORR, 54.8%; median OS, 11.8 months (median follow-up, 15.3 months)
- In both studies, I-DXd showed a manageable safety profile, and this was consistent across tumor types in IDEate-PanTumor01^{16,17}
- We describe IDEate-PanTumor02, a Phase 1b/2 study evaluating the efficacy and safety of I-DXd in patients with recurrent or metastatic solid tumors¹

Figure 2. Study design



METHODS

- IDEate-PanTumor02 (NCT06330064) is a global, multicenter, open-label, single-arm, parallel-cohort, Phase 1b/2 study in patients with recurrent or metastatic solid tumors who have received ≥1 prior line of systemic therapy for the selected tumor indication
- The study includes 13 cohorts: Endometrial cancer; HNSCC; PDAC; CRC; HCC; adenocarcinoma of the esophagus, GEJ, or stomach; urothelial carcinoma; ovarian cancer; cervical cancer; biliary tract cancer; HER2-low BC (defined as IHC 2+/ISH– or IHC 1+ [ISH– or untested]); HER2-negative BC (defined as IHC 0 [ISH– or untested]); and cutaneous melanoma
- Key enrollment criteria for all patients are presented in **Table 1**, and select cohort-specific enrollment criteria are presented in **Table 2**

Table 1. Key enrollment criteria

General key inclusion criteria
• Recurrent or metastatic: Endometrial cancer; HNSCC; PDAC; CRC; HCC; adenocarcinoma of the esophagus, GEJ, or stomach; urothelial carcinoma; ovarian cancer; cervical cancer; biliary tract cancer; HER2-low BC; HER2-negative BC; or cutaneous melanoma
• Age ≥18 years
• ≥1 prior line of systemic therapy for the selected tumor indication ^a
• ≥1 measurable lesion per RECIST 1.1
• Radiologically documented PD on or after previous SOC regimen in the advanced/metastatic setting
• ECOG PS 0–1
• Patients with asymptomatic brain metastases (untreated or previously treated) are eligible
General key exclusion criteria
• Prior treatment with orlotamab, enoblituzumab, or other B7-H3–targeted agents, including I-DXd
• Prior discontinuation of an ADC that consists of an exatecan derivative (eg, T-DXd) due to treatment-related toxicities
• Clinically active brain metastasis, spinal cord compression, or leptomeningeal carcinomatosis
• History of ILD/pneumonitis that required corticosteroids; current or suspected ILD/pneumonitis

^aPrior treatments and LOTs may vary by tumor type – see Table 2 for details.

Table 2. Select cohort-specific enrollment criteria

Prior therapy requirements for each cohort (additional enrollment criteria may apply)
• Endometrial cancer: Relapse or progression after a platinum-containing systemic treatment and an ICI-containing regimen (combination or sequential) ^a
• HNSCC: Progression after platinum-based and ICI therapy (combination or sequential) ^a
• PDAC: Relapse or progression after 1 prior line of gemcitabine-based systemic therapy ^{b,c,d}
• CRC: Relapse or progression after 1 prior line of systemic therapy including a fluoropyrimidine + oxaliplatin ± anti-VEGF or anti-EGFR mAb therapy; pathologically or cytologically documented unresectable or metastatic CRC with microsatellite stable status ^{b,d}
• HCC: Relapse or progression after 1 prior line of an ICI-containing regimen (combination or monotherapy) ^{a,c}
• Adenocarcinoma of the esophagus, GEJ, or stomach: Relapse or progression after 1 prior line of systemic therapy ^{c,e}
• Urothelial carcinoma: Relapse or progression after ≥1 prior line of ICI-containing regimen, and 1 prior line of systemic chemotherapy (in combination with other anticancer therapy or separately) ^{a,f}
• Ovarian cancer: ≥1 prior line of platinum-based therapy and bevacizumab (if eligible) ^a
• Cervical cancer: ≥1 prior line of systemic therapy ^{a,g,h}
• Biliary tract cancer: Relapse or progression after ≥1 prior line of systemic therapy ^b
• HER2-low BC: Progression on or after T-DXd; relapse or progression after 2–3 prior lines of systemic therapy ^{a,h}
• HER2-negative BC: Relapse or progression after 2–3 prior lines of systemic therapy ^{a,h}
• Cutaneous melanoma: Progression on or after ≥1 prior line of ICI-based therapy ⁱ

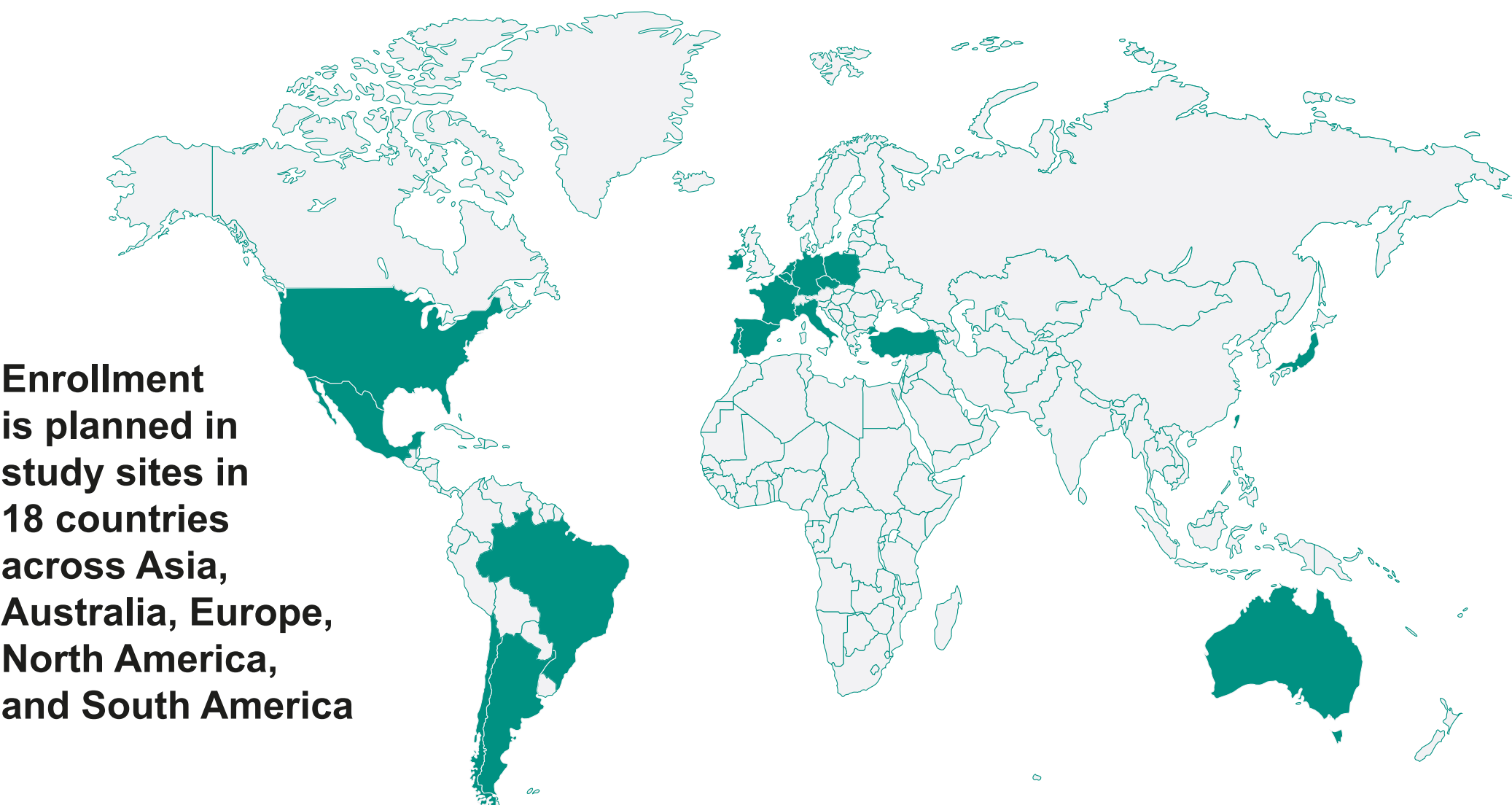
^aIn addition to the required LOTs listed, patients with actionable target mutations should have received prior treatment with targeted therapy (with ≤3 prior LOTs for patients with endometrial carcinoma or carcinosarcoma, urothelial carcinoma, HER2-low BC, or HER2-negative BC, and ≤2 prior LOTs for patients with unresectable or metastatic HNSCC or HCC). ^bTwo prior LOTs in patients with PDAC, CRC, or biliary tract cancer who have received prior targeted therapy. ^cIn the locally advanced or metastatic setting. ^dPatients with prior treatment with topoisomerase I inhibitors (irinotecan or topotecan) are not eligible. ^ePatients with PD-L1–positive or MSI-H/dMMR tumors should receive ICIs (if eligible) if SOC in the country; patients with a known history of HER2 positivity or other actionable target mutations must have received prior targeted therapy. ^fPatients must have received ≥1 prior line of entorbutam vedotin in countries where it is approved and available. ^gPatients must have received anti-PD-L1 therapy (if eligible) if part of SOC in the country. ^hIncluding patients with HR+ BC who have received endocrine therapy and an additional 2–3 prior lines of systemic therapy in the metastatic setting. Patients with *BRAF*-mutated melanoma or other actionable target mutations must have also had progression on targeted therapy.

- The study will include up to 530 adult patients and be divided into 2 parts: Stage 1 (≈20 patients per tumor type) and Stage 2 (≈40 patients per tumor type; **Figure 2**)
 - Each cohort begins with Stage 1 and may progress to Stage 2 if suitable safety and efficacy data are observed, based on the totality of data, including the benefit–risk assessment, duration and depth of response, and the observed safety profile
- All cohorts except the HCC cohort will receive I-DXd 12 mg/kg Q3W
- The HCC cohort includes a safety run-in part to assess tolerability and the potential need for dose adjustment
- The primary endpoints are ORR per investigator (all cohorts) and safety (HCC safety run-in only); study endpoints are presented in **Table 3**
- Patients are being enrolled across sites in Asia, Australia, Europe, North America, and South America (**Figure 3**)

Table 3. Study endpoints

Primary endpoints
• ORR assessed by investigator per RECIST 1.1
• DLTs and TEAEs in the HCC cohort (safety run-in part only)
Secondary endpoints
• Incidence of TEAEs, serious TEAEs, and AESIs
• DOR
• PFS
• DCR
• OS
• PK
• Immunogenicity

Figure 3. Study site locations



REFERENCES

1. ClinicalTrials.gov. <https://clinicaltrials.gov/study/NCT06330064>. Accessed May 7, 2025.
2. Getu AA, et al. *Mol Cancer*. 2023;22:43.
3. Dong P, et al. *Front Oncol*. 2018;8:264.
4. Wang L, et al. *Front Oncol*. 2016;37:2961–2971.
5. Qiu MJ, et al. *Front Oncol*. 2021;11:600238.
6. Amori G, et al. *Prostate Cancer Prostatic Dis*. 2021;24:767–774.
7. Inamura K, et al. *Lung Cancer*. 2017;103:44–51.
8. Song J, et al. *Onco Targets Ther*. 2016;9:6257–6263.
9. Katayama A, et al. *Int J Oncol*. 2011;38:1219–1226.
10. Brunner A, et al. *Gynecol Oncol*. 2012;124:105–111.
11. Mielcarska S, et al. *Int J Mol Sci*. 2025;26:3044.
12. Yamato M, et al. *Mol Cancer Ther*. 2022;21:635–646.
13. Daiichi Sankyo, Inc. Data on file.
14. Nakada T, et al. *Chem Pharm Bull (Tokyo)*. 2019;67:173–185.
15. Ogilani Y, et al. *Cancer Sci*. 2016;107:1039–1046.
16. Patel MR, et al. Poster presentation at the European Society for Medical Oncology congress, October 20–24, 2023; Madrid, Spain. Presentation 690P.
17. Rudin CM, et al. Oral presentation at the World Conference on Lung Cancer, September 7–10, 2024; San Diego, CA, USA. Presentation OA04.03.

ABBREVIATIONS

ADC, antibody–drug conjugate; AESI, adverse event of special interest; **B7-H3**, B7 homolog 3; **BC**, breast cancer; **BRAF**, B-Raf proto-oncogene; **CD**, cluster of differentiation; **CRC**, colorectal cancer; **DCR**, disease control rate; **DLT**, dose-limiting toxicity; **dMMR**, deficient mismatch repair; **DOR**, duration of response; **ECOG PS**, Eastern Cooperative Oncology Group performance status; **EGFR**, epidermal growth factor receptor; **ESCC**, esophageal squamous cell carcinoma; **(ES-)SCLC**, (extensive-stage) small cell lung cancer; **GEJ**, gastroesophageal junction; **HCC**, hepatocellular carcinoma; **HER2**, human epidermal growth factor receptor 2; **HNSCC**, head and neck squamous cell carcinoma; **HR+**, hormone receptor-positive; **ICI**, immune checkpoint inhibitor; **I-DXd**, ifinatamab deruxtecan; **IgG1**, immunoglobulin G1; **IHC**, immunohistochemistry; **ILD**, interstitial lung disease; **ISH**, in situ hybridization; **LOT**, line of therapy; **mAb**, monoclonal antibody; **mCRPC**, metastatic castration-resistant prostate cancer; **MSI-H**, microsatellite instability-high; **ORR**, objective response rate; **OS**, overall survival; **PD**, progressive disease; **PDAC**, pancreatic ductal adenocarcinoma; **PD-L1**, programmed death ligand 1; **PFS**, progression-free survival; **PK**, pharmacokinetics; **Q1Y**, annually; **Q3M**, every 3 months; **Q3W**, every 3 weeks; **RECIST 1.1**, Response Evaluation Criteria in Solid Tumors, version 1.1; **SOC**, standard of care; **sqNSCLC**, squamous non-small cell lung cancer; **T-DXd**, trastuzumab deruxtecan; **TEAE**, treatment-emergent adverse event; **VEGF**, vascular endothelial growth factor.

ACKNOWLEDGMENTS

This study is sponsored by Daiichi Sankyo, Inc. In October 2023, Daiichi Sankyo entered into a global development and commercialization collaboration agreement with Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA for ifinatamab deruxtecan (I-DXd). Medical writing support was provided by Sultana Jahan, PhD, of BOLDSCIENCE®, Inc., and was funded by Daiichi Sankyo, Inc. Editorial support was provided in accordance with Good Publication Practice guidelines <https://www.ismpp.org/gpp-2022>.

DISCLOSURES

Takahiro Kogawa has had consulting or advisory roles for Daiichi Sankyo and Astellas Pharma, has been on speakers' bureaus for Daiichi Sankyo, Eisai, Ono Pharmaceutical, AstraZeneca, Gilead Sciences, Taiho Pharmaceutical, Astellas Pharma, and Chugai Pharma, and has received research funding from Lilly.

Copies of this poster obtained through Quick Response (QR) Code are for personal use only and may not be reproduced without permission from ASCO® or the author of this poster.

