

KEYMAKER-U06 Substudy 06E: A Phase 1/2 Open-Label, Umbrella Platform Study of Ifinatamab Deruxtecan in Combination With Pembrolizumab With or Without Chemotherapy for First-Line Treatment of Advanced Esophageal Squamous Cell Carcinoma

TPS4209

Ken Kato¹; Toshihiko Doi²; Antoine Adenis³; Manish Shah⁴; Peter C. Enzinger⁵; Lin Shen⁶; Tatiane Cristine Ishida⁷; Leah Suttner⁸; Kanu P. Sharan⁸; Pooja Bhagia⁸; Jong-Mu Sun⁹

¹National Cancer Center Hospital, Tokyo, Japan; ²National Cancer Center Hospital East, Kashiwa, Japan; ³Institut du Cancer de Montpellier and IRCM, Université de Montpellier, Montpellier, France; ⁴New York-Presbyterian Hospital, New York, NY, USA; ⁵Dana-Farber Cancer Institute, Boston, MA, USA; ⁶Beijing Cancer Hospital, Beijing, China; ⁷Daiichi Sankyo, Inc., Basking Ridge, NJ, USA; ⁸Merck & Co., Inc., Rahway, NJ, USA; ⁹Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

OBJECTIVES

- To evaluate the safety and efficacy of first-line I-DXd plus pembrolizumab with or without chemotherapy for advanced ESCC

Primary

- Safety and tolerability (dose-limiting toxicities [DLTs], adverse events [AEs])
- Objective response rate (ORR) per RECIST v1.1 by blinded independent central review (BICR) for the selected dose

Secondary

- Duration of response (DOR) per RECIST v1.1 by BICR
- Disease control rate (DCR) per RECIST v1.1 by BICR
- Progression-free survival (PFS) per RECIST v1.1 by BICR
- Overall survival (OS)
- Pharmacokinetics of I-DXd in combination with other agents
- Immunogenicity (antidrug antibody assay)

Access Poster



Access Poster Slides



Access Plain Language Summary



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.

<https://bit.ly/3GffmD> <https://bit.ly/443lm7v> <https://bit.ly/4cAAprv>

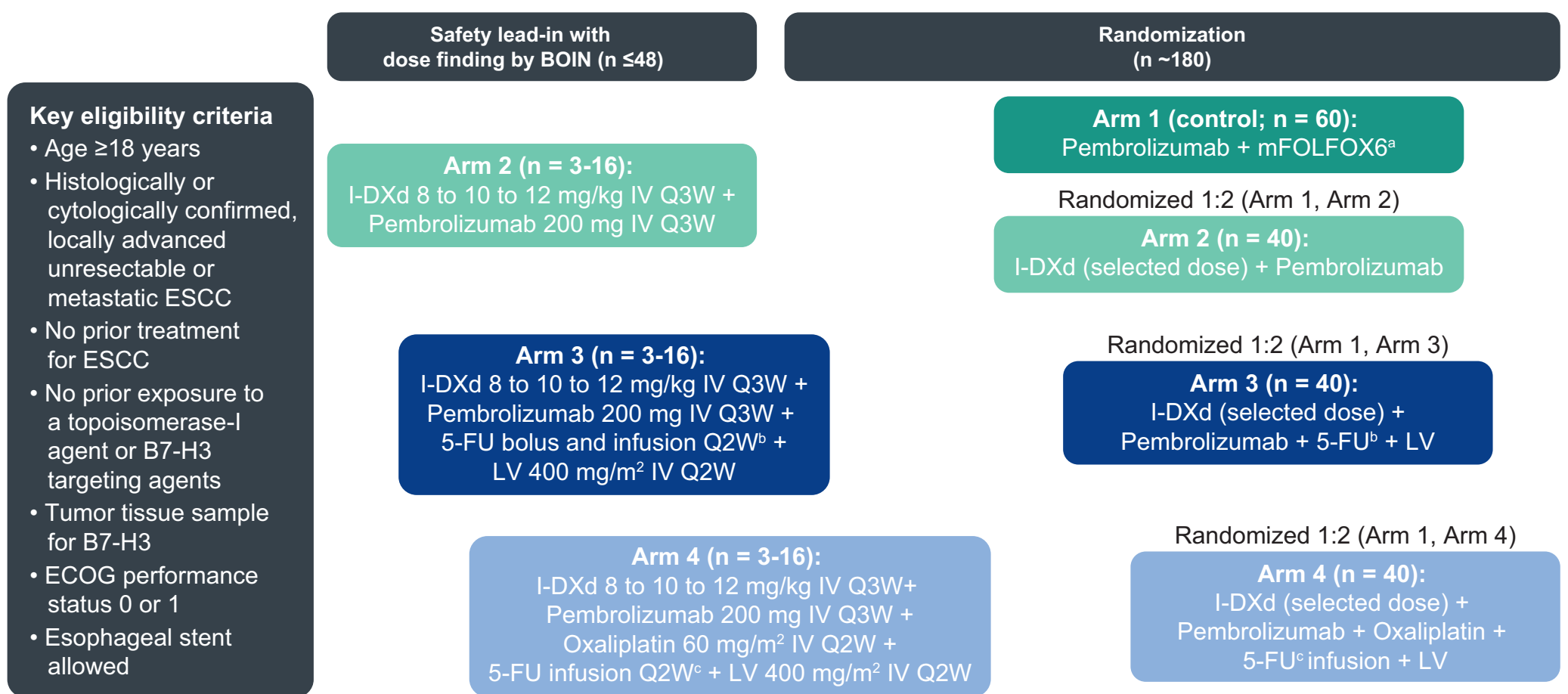
BACKGROUND

- Esophageal squamous cell carcinoma (ESCC) is an aggressive malignancy with 5-year survival rates of 15-25%¹; there is a substantial need for more effective and tolerable first-line treatment options for patients with advanced ESCC
- B7-H3 is a type 1 transmembrane protein that is highly expressed in several cancers, including ESCC, and is associated with a poor prognosis²
- Ifinatamab deruxtecan (I-DXd; formerly DS-7300a/MK-2400) is a B7-H3–directed antibody-drug conjugate (ADC) comprising a humanized anti–B7-H3 IgG1 monoclonal antibody (ifinatamab) covalently linked to a potent topoisomerase I inhibitor payload (DXd; an exatecan derivative) by a cleavable linker³
 - In the phase 1/2 DS7300-A-J101 study, I-DXd monotherapy showed promising antitumor activity in participants with advanced ESCC^{3,4}
- KEYMAKER-U06 is an open-label, phase 1/2, umbrella platform study designed to evaluate investigational agents with or without pembrolizumab and/or chemotherapy for advanced gastroesophageal cancer
 - Substudy 06E (NCT06780111) will evaluate I-DXd plus pembrolizumab with or without chemotherapy as first-line therapy for advanced ESCC

METHODS

Study design and participants

Figure 1. Study design of KEYMAKER-U06 substudy E



*mFOLFOX6: 5-FU 400 mg/m² bolus plus 2400 mg/m² continuous IV Q2W + oxaliplatin 85 mg/m² IV Q2W + leucovorin 400 mg/m² IV Q2W.

*5-FU: 400 mg/m² bolus plus 2400 mg/m² continuous IV Q2W.

*5-FU: 2400 mg/m² continuous IV Q2W.

Number of participants

- New treatment arms will be open for enrollment on a rolling basis to evaluate new investigational treatment combinations
 - Efficacy enrollment for each arm will start once the dose finding phase is complete
 - The safety lead-in phase for Arm 3 will be initiated once the DLT period is complete for 1 dose level in Arm 2
 - The highest dose escalation in Arms 3 and 4 will be based on the selected dose in Arms 2 and 3

Participant eligibility

Key inclusion criteria
<ul style="list-style-type: none">• Aged ≥18 years• Histologically or cytologically confirmed, locally advanced unresectable or metastatic ESCC• Measurable disease per RECIST v1.1 by investigator and verified by BICR• Archival tumor tissue sample provided or newly obtained core, incisional, or excisional biopsy of a tumor lesion not previously irradiated• Any AEs from prior anticancer therapies must have improved to grade ≤1 or baseline• Participants with HIV infection must have well controlled HIV on antiretroviral therapy• ECOG performance status 0 or 1
Key exclusion criteria
<ul style="list-style-type: none">• Prior systemic anticancer therapy for locally advanced or metastatic esophageal cancer• Received prior therapy with<ul style="list-style-type: none">– Anti–PD-1, anti–PD-L1, or anti–PD-L2 agent– An agent directed to another stimulatory or coinhibitory T cell receptor (eg, CTLA-4, OX-40, CD137)– Orlotamab, enoblituzumab, or other B7–H3-targeted agent– Topoisomerase-I inhibitor, including ADC• Tumor invasion into organs adjacent to the esophageal disease site at an increased risk of fistula as assessed by investigator• Known additional malignancy that is progressing or required active treatment in the past 3 years• Known active CNS metastasis and/or carcinomatous meningitis• History of (noninfectious) pneumonitis or interstitial lung disease that required steroids or current pneumonitis or interstitial lung disease• Clinically significant corneal disease• History of Kaposi sarcoma and/or Multicentric Castleman’s Disease for participants with HIV infection

Assessment and follow-up

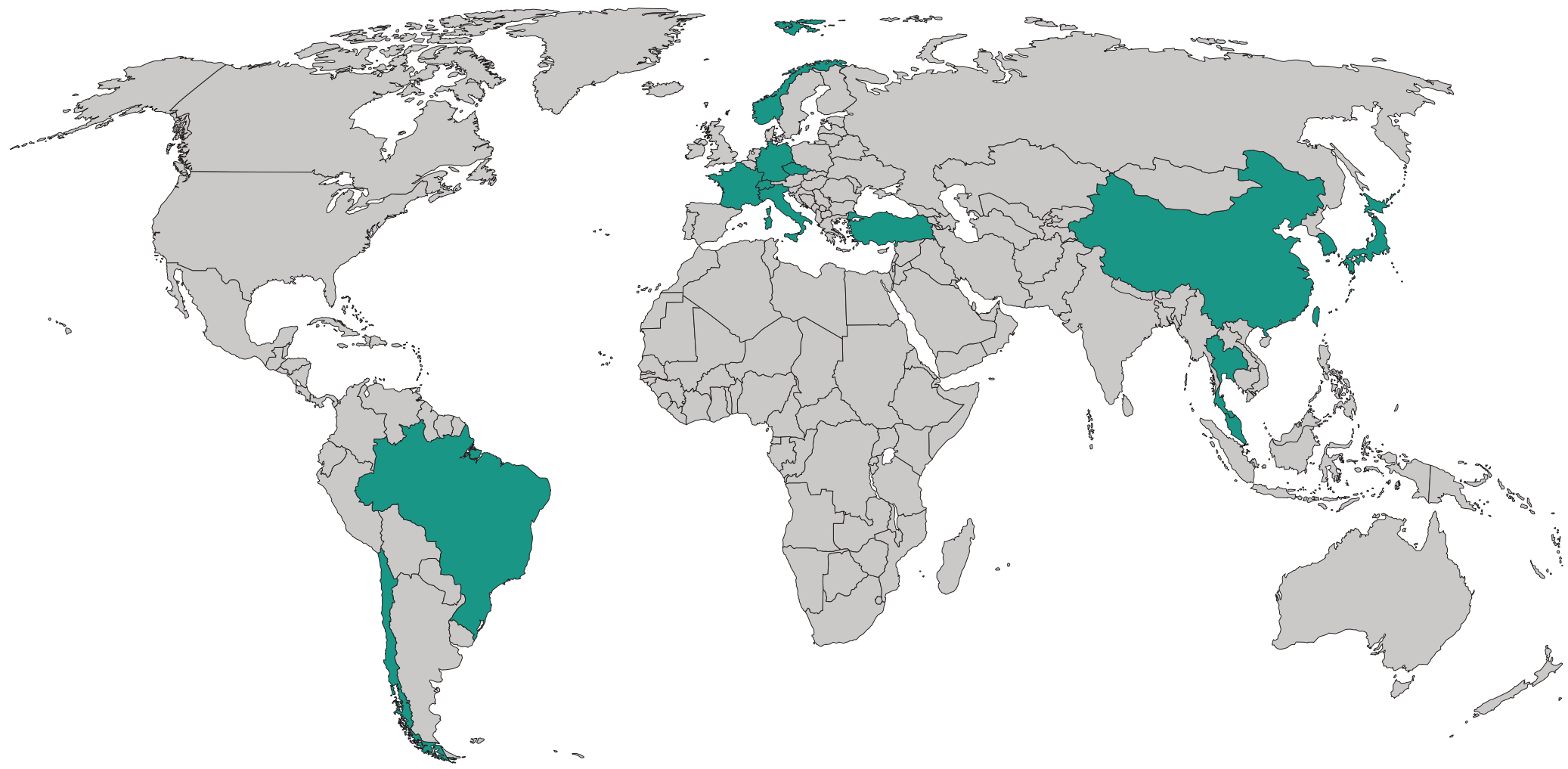
Detail
Tumor response
<ul style="list-style-type: none">• Response assessments (CT or MRI) will be performed 6 weeks from the date of randomization, then Q6W or more frequently if clinically indicated• After year 1, assessments will be performed Q9W until discontinuation criteria are met
AEs
<ul style="list-style-type: none">• AEs will be monitored and assessed by investigators throughout the study and for 40 days after cessation of study treatment• Serious AEs will be monitored and assessed by investigators throughout the study and for 90 days after cessation of study treatment (40 days if new anticancer therapy is initiated)• Severity will be graded per National Cancer Institute Common Terminology Criteria for Adverse Events version 5.0

Analyses

Detail
Efficacy
<ul style="list-style-type: none">• Efficacy analyses will be conducted for all participants with a baseline scan that showed measurable disease by BICR and who received ≥1 dose of study treatment• ORR (95% CI) will be calculated for each treatment arm using the Clopper-Pearson method<ul style="list-style-type: none">– The difference in ORR between treatment arms will be calculated using the Miettinen and Nurminen method• PFS, OS, and DOR will be estimated using the Kaplan-Meier method
Safety
<ul style="list-style-type: none">• Safety analyses will be conducted in all participants who received ≥1 dose of study treatment• Safety will be summarized descriptively

CURRENT STATUS

Sites of enrollment for KEYMAKER-U06 (green)



ABBREVIATIONS

5-FU, 5-fluorouracil; BOIN, Bayesian optimal interval; CD137, tumor necrosis factor receptor superfamily member 9; CNS, central nervous system; CT, computed tomography; CTLA-4, cytotoxic T-lymphocyte associated protein 4; MRI, magnetic resonance imaging; IV, intravenous; LV, leucovorin; OX-40, tumor necrosis factor superfamily member 4; PD-1, programmed cell death protein 1; PD-L1, programmed cell death ligand 1; PD-L2, programmed cell death ligand 2; QXW, every X weeks.

REFERENCES

1. Arnal MJD et al. *World J Gastroenterol.* 2015;21:7933-7943.
2. Chen L et al. *Am J Transl Res.* 2015;7:2646-2660.
3. Johnson ML et al. *Ann Oncol.* 2021;32(Supplement 5):S583-S585.
4. Doi T et al. *Ann Oncol.* 2022;33(Supplement 7):S744-S745.

ACKNOWLEDGEMENTS

The authors thank the participants and their families and caregivers for their involvement in this trial, as well as all investigators and site personnel. The authors also thank Ramzieh Sabah of Merck & Co., Inc., Rahway, NJ, USA and Naoko Ikeda of Daiichi Sankyo, Inc., for their contributions to the study. Medical writing and/or editorial assistance was provided by Shane Walton, PhD, CMPP, and Holly C. Cappelli, PhD, CMPP, of ApotheCom (Yardley, PA). This assistance was funded by Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA. Funding for this research was provided by Merck Sharp & Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA.

CONTACT INFORMATION

Contact the author at kenkato@ncc.go.jp for questions and comments.