

A Phase 3 Study of Sacituzumab Govitecan in Patients with Previously Treated Extensive-Stage Small-Cell Lung Cancer

604a

EVOKE-04

Afshin Dowlati¹, Myung-Ju Ahn², Alan Arrieira Azambuja³, Lauren A Byers⁴, Raffaele Califano⁵, Federico Cappuzzo⁶, Ying Cheng⁷, Nicolas Girard⁸, Lizza EL Hendriks⁹, Brett GM Hughes¹⁰, Giannis Mountzios¹¹, Takayuki Takahama¹², Michael Thomas^{13,14}, James Chih-Hsin Yang¹⁵, Michele Vigliotti¹⁶, Joseph Park¹⁶, Tia Wu¹⁶, Luis Paz-Ares¹⁷

¹University Hospitals Seidman Cancer Center and Case Western Reserve University, Cleveland, OH, USA; ²Samsung Medical Center, Seoul, South Korea; ³Centro Gaúcho Integrado de Oncologia e Hematologia, Porto Alegre, RS, Brazil; ⁴MD Anderson Cancer Center, Houston, TX, USA; ⁵The Christie NHS Foundation Trust and Division of Cancer Sciences, The University of Manchester, Manchester, UK; ⁶Istituto Nazionale Tumori Regina Elena IRCCS, Rome, Italy; ⁷Jilin Cancer Hospital, Jilin, China; ⁸Institut du Thorax Curie-Montsouris, Institut Curie, Paris, France; ⁹Maastricht University Medical Center, Maastricht, Netherlands; ¹⁰The Prince Charles Hospital, Chermside, and University of Queensland, St Lucia, QLD, Australia; ¹¹Henry Dunant Hospital Center, Athens, Greece; ¹²Kindai University Hospital, Osaka, Japan; ¹³Thoraxklinik, Heidelberg University Hospital and National Center for Tumor Diseases (NCT) Heidelberg, a partnership between DKFZ and Heidelberg University Hospital, Heidelberg, Germany; ¹⁴Translational Lung Research Center Heidelberg, Member of the German Center for Lung Research (DZL), Heidelberg, Germany; ¹⁵National Taiwan University Cancer Center, Taipei, Taiwan; ¹⁶Gilead Sciences, Inc., Foster City, CA, USA; ¹⁷Hospital Universitario 12 de Octubre, Madrid, Spain

Copies of this poster obtained through QR (Quick Response) and/or text key codes are for personal use only and may not be reproduced without written permission of the authors.



Background

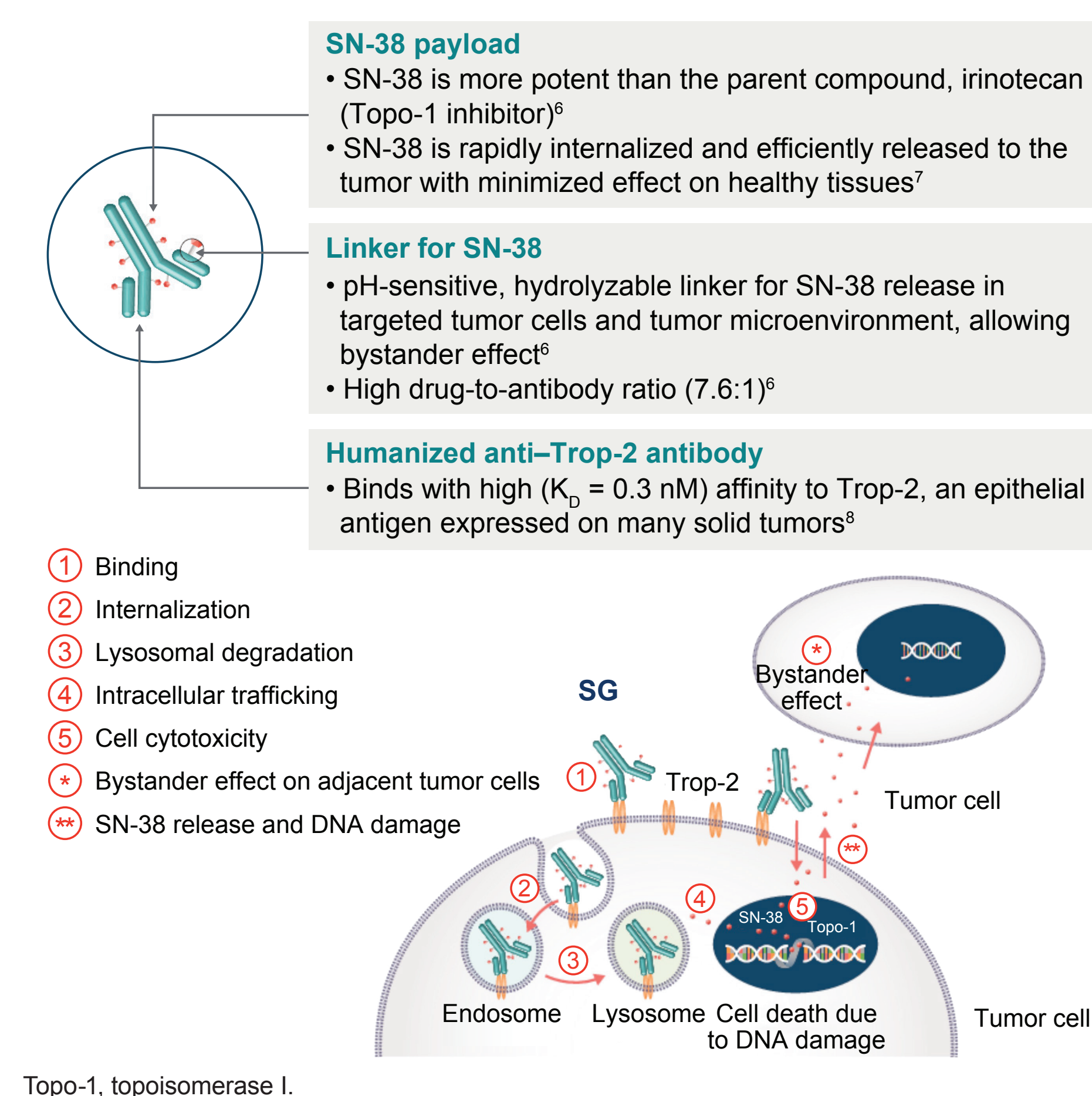
Introduction

- Treatment options are limited for patients with extensive-stage small-cell lung cancer (ES-SCLC) that has progressed after platinum-containing chemotherapy, with or without anti-programmed cell death protein (ligand) 1 (anti-PD-(L)1) therapy^{1,2}
- Despite the evolving treatment landscape for ES-SCLC,^{3,4} toxicities and poor clinical outcomes with the current globally approved standard of care (SOC), topotecan, highlight the unmet need for novel agents⁵

Sacituzumab Govitecan

- Sacituzumab govitecan (SG) is a first-in-class trophoblast cell surface antigen 2 (Trop-2)-directed antibody-drug conjugate (Figure 1)
 - SG is globally approved for the treatment of unresectable locally advanced or metastatic triple-negative breast cancer in individuals who have received ≥ 2 previous systemic therapies (≥ 1 for metastatic disease) and metastatic hormone receptor-positive, human epidermal growth factor receptor-2 negative breast cancer after receipt of endocrine-based therapy and ≥ 2 additional systemic therapies^{9,10}

Figure 1. SG Mechanism of Action



- In the phase 2, open-label TROPICS-03 study, SG showed encouraging antitumor activity and manageable safety as a second-line treatment for participants with ES-SCLC⁷
 - At a median follow-up duration of 12.3 months, investigator-assessed objective response rate (ORR) per Response Evaluation Criteria in Solid Tumors, version 1.1 (RECIST v1.1), was 42% (95% CI, 27.0; 57.9), and median overall survival (OS) was 13.6 (95% CI, 6.6; 14.8) months
 - Neutropenia (44%) and diarrhea (9%) were the most common grade ≥ 3 treatment-emergent adverse events (TEAEs), and no TEAEs led to discontinuation of SG; one treatment-related TEAE led to death
- Clinical results from TROPICS-03 support further phase 3 investigation of SG in participants with previously treated ES-SCLC

References: 1. National Comprehensive Cancer Network. NCCN Clinical Practice Guidelines in Oncology: SCLC (version 2.2026). Available at <https://www.nccn.org>. 2. Dingemans AC, et al. Ann Oncol. 2021;32(7):839–853. 3. Zepzelca® (lurbinectedin) Full Prescribing Information. Jazz Pharmaceuticals, Inc.; Palo Alto, CA, USA; 2023. 4. Imdelltra™ (tarlatamab-dlle) Full Prescribing Information. Amgen Inc.; Thousand Oaks, CA, USA; 2024. 5. Hycamtin® (topotecan). Full Prescribing Information. Novartis Pharmaceuticals; East Hanover, NJ, USA; 2018. 6. Goldenberg DM, et al. Oncotarget. 2015;6:22496–512. 7. Dowlati A, et al. J Thorac Oncol. 2025;20:799–808. 8. Jiang Y, et al. Pharmaceuticals. 2024;17:652. 9. Trodelvy® (sacituzumab govitecan-hziy). Full Prescribing Information. Gilead Sciences, Inc.; Foster City, CA, USA; 2025. 10. Trodelvy® (sacituzumab govitecan-hziy). Summary of Product Characteristics. Gilead Sciences Ireland UC; Carrigtwohill, Ireland; 2023.

Acknowledgments: This study was funded by Gilead Sciences, Inc., Foster City, CA, USA. Medical writing and editorial support were provided by Clare E. Lee, PhD, of ICON plc (Blue Bell, PA, USA) and was funded by Gilead Sciences, Inc.

Disclosures: AD reports research grants from AbbVie/Stemcentrx; Bayer; Lilly/ImClone; Amgen; Astellas Pharma; Bicycle Therapeutics; Bristol-Myers Squibb; Gilead Sciences, Inc.; Ipsen; Mirati Therapeutics; Seagen; and Takeda and consultant fees from AbbVie/Stemcentrx; Amgen; AstraZeneca; and Tempus.

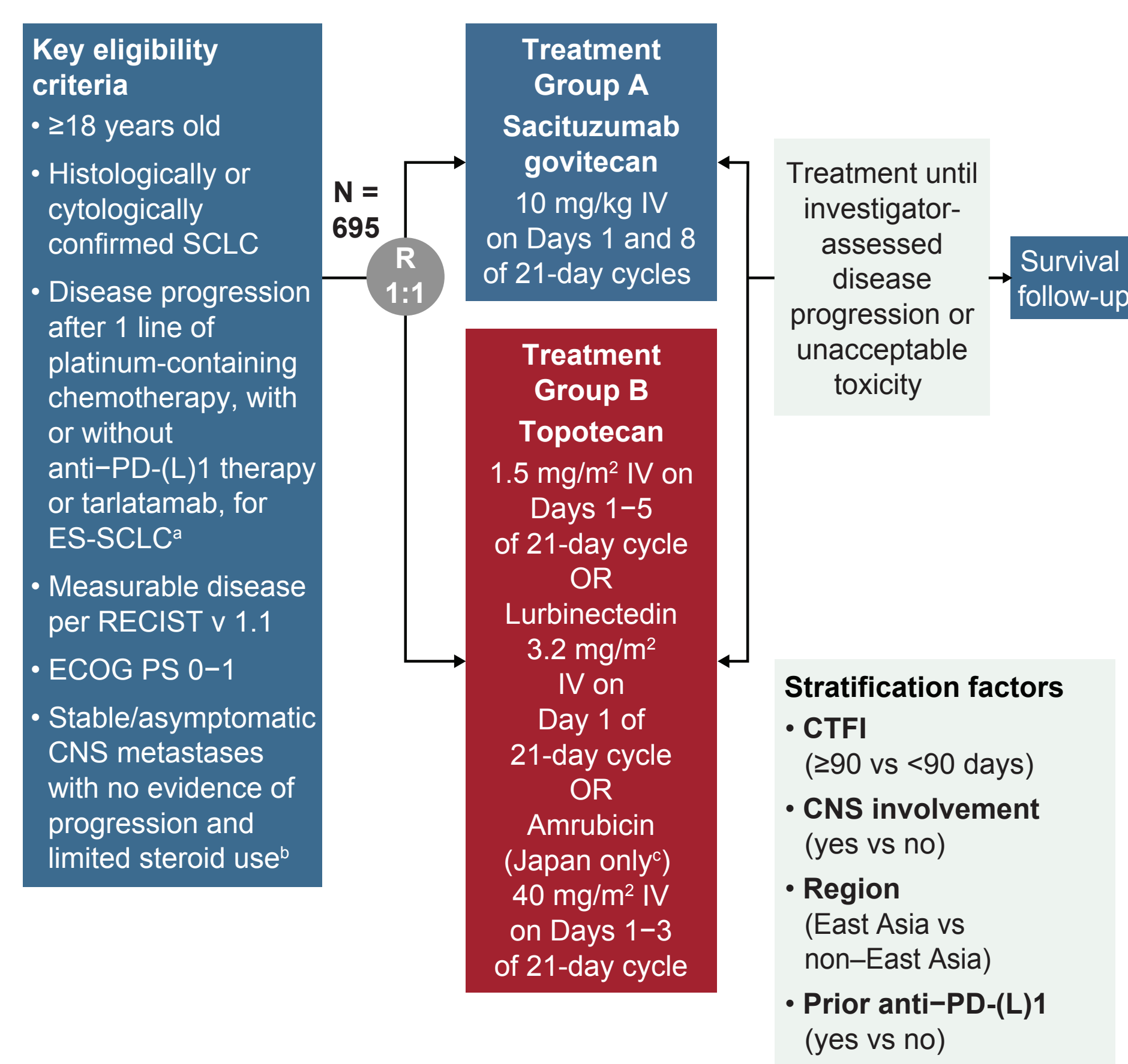
Correspondence: afshin.dowlati@uhhospitals.org

Methods

Study Design

- EVOKE-SCLC-04 (NCT06801834) is a global, Phase 3, randomized, open-label, multicenter study investigating the efficacy and safety of SG versus SOC (topotecan, lurbinectedin [in countries/regions where approved], or amrubicin [Japan only]) in participants with previously treated ES-SCLC (Figure 2)
- Participants who meet eligibility criteria (Table 1) will be randomized 1:1 to receive SG 10 mg/kg or SOC (topotecan, lurbinectedin, or amrubicin) in 21-day cycles
 - Randomization must occur on or within 3 days prior to dosing on Day 1 of Cycle 1
 - Randomization stratification factors include chemotherapy-free interval (CTFI), central nervous system (CNS) involvement, geographic region, and prior anti-PD-(L)1 therapy
- Study endpoints are shown in Table 2

Figure 2. EVOKE-SCLC-04 Study Design



^aAt least 85% of participants included in the study must be pretreated with anti-PD-(L)1 therapy. ^bParticipants with previously treated brain metastases may participate provided they have stable CNS disease for ≥ 4 weeks before enrollment, with all neurologic systems returned to baseline; have no evidence of new or enlarging brain metastases; and are taking ≤ 10 mg/day of prednisone or equivalent. ^cParticipants in Japan assigned to Treatment Group B will have the option to receive topotecan or amrubicin.

Table 1. Key Eligibility Criteria

Inclusion	Exclusion
<ul style="list-style-type: none"> Age ≥ 18 years at enrollment and able to understand and give written informed consent Histologically or cytologically confirmed diagnosis of SCLC Documentation of radiologic disease progression after 1 prior line of platinum-containing chemotherapy (≥ 2 cycles of treatment), with or without anti-PD-(L)1 therapy or tarlatamab for ES-SCLC Measurable disease by computed tomography or magnetic resonance imaging as assessed by investigator per RECIST v1.1 criteria ECOG PS of 0 or 1 	<ul style="list-style-type: none"> CTFI^a of < 30 days (independent of maintenance immunotherapy) Any prior treatment with irinotecan, topotecan, SG, SN-38, exatecan derivatives, and similar agents targeting topoisomerase I Received lurbinectedin after progression during or after platinum-containing chemotherapy Symptomatic, unstable, or progressing CNS disease (including meningitis or new/enlarging brain metastases)^b

^aDefined as the time from the last dose of platinum-containing chemotherapy to the occurrence of progressive disease. ^bParticipants with previously treated brain metastases may participate provided they have stable CNS disease for ≥ 4 weeks before enrollment, with all neurologic systems returned to baseline; have no evidence of new or enlarging brain metastases; and are taking ≤ 10 mg/day of prednisone or equivalent. CNS, central nervous system; CTFI, chemotherapy-free interval; ECOG PS, Eastern Cooperative Oncology Group performance status; ES-SCLC, extensive-stage small-cell lung cancer; IV, intravenous; PD-(L)1, programmed cell death (ligand) 1; R, randomization; RECIST v1.1, Response Evaluation Criteria in Solid Tumors, version 1.1; SCLC, small-cell lung cancer; SG, sacituzumab govitecan.

Table 2. Study Endpoints

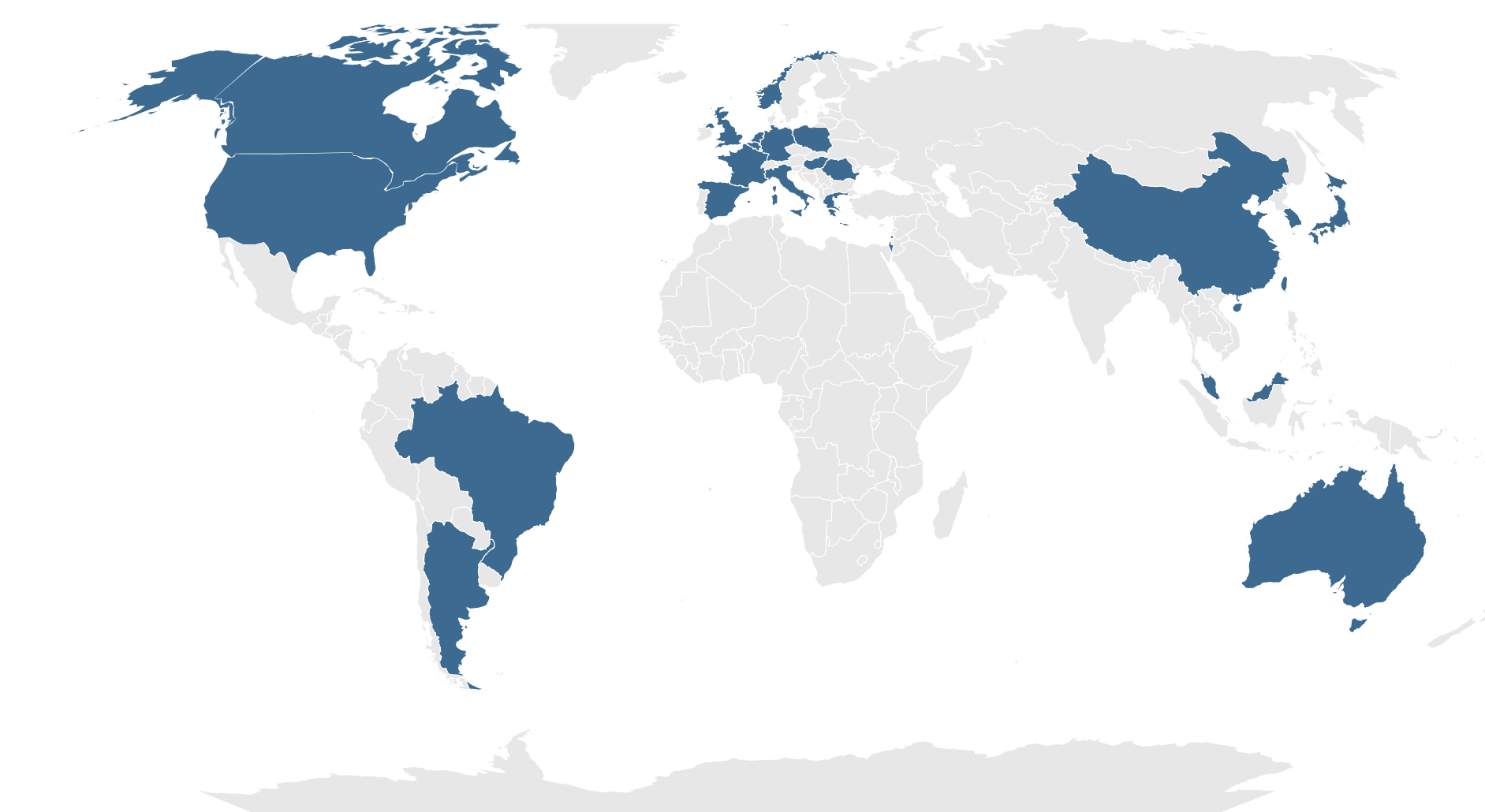
	Endpoints	Assessed by
Primary	<ul style="list-style-type: none"> Overall survival 	
Secondary	<ul style="list-style-type: none"> Progression-free survival Objective response rate Duration of response Time to first deterioration in shortness-of-breath domain Time to first deterioration in physical functioning domain Safety and tolerability 	<ul style="list-style-type: none"> Investigator per RECIST v1.1 criteria Investigator per RECIST v1.1 criteria Investigator per RECIST v1.1 criteria NSCLC-SAQ EORTC QLQ-C30 Incidence of TEAEs and clinical laboratory abnormalities

EORTC QLQ-C30, European Organisation for Research and Treatment of Cancer Quality-of-Life Questionnaire–Core 30; RECIST v1.1, Response Evaluation Criteria in Solid Tumors, version 1.1; NSCLC-SAQ, Non–Small Cell Lung Cancer Symptoms Assessment Questionnaire; TEAE, treatment-emergent adverse event.

Trial Status

- The study commenced on April 4, 2025, and is actively recruiting, with plans to enroll 695 participants
- Approximately 275 study sites are planned globally (active countries are represented in Figure 3)
- Updated study information can be found at ClinicalTrials.gov, NCT06801834, <https://clinicaltrials.gov/study/NCT06801834>

Figure 3. Trial Status



Plain Language Summary

- Many people with extensive-stage small-cell lung cancer (ES-SCLC) will find their disease getting worse, even after being treated with standard platinum-containing medicines
- Investigations showed that the drug sacituzumab govitecan shrank ES-SCLC tumors and had promising survival outcomes in people who have already been treated with standard medicines
- The EVOKE-SCLC-04 study is currently enrolling participants worldwide and plans to look at whether sacituzumab govitecan works better and is safer than the standard medicines (topotecan, lurbinectedin, and amrubicin) currently approved to treat ES-SCLC that has worsened after receiving previous treatment
- Participants will be divided into 2 treatment groups
 - The experimental group will be given sacituzumab govitecan
 - The control group will be given topotecan or lurbinectedin; Japanese participants in this group will have the option to take either topotecan or amrubicin
- Investigators will assess whether tumors shrink, how long participants live, and if the treatments are safe