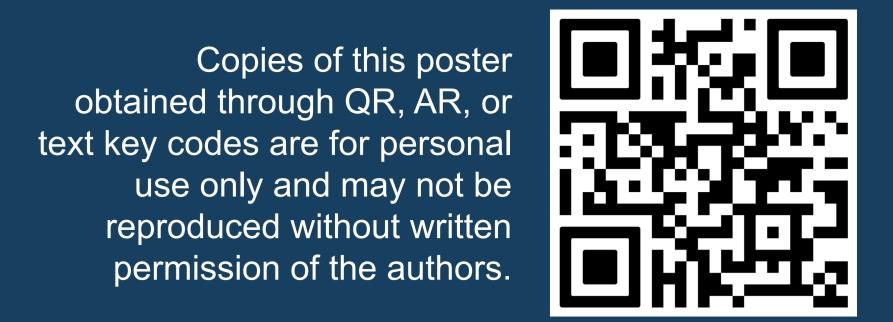
Pooled Safety Analysis of Sacituzumab Govitecan in Metastatic Breast Cancer, Including Data From Patients Treated in North America/Europe and Asia

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Conclusions

- In this pooled safety analysis of 969 patients with metastatic breast cancer (mBC) treated with sacituzumab govitecan (SG), patients in North America/Europe (NA/EU) and Asia experienced comparable rates of any-grade and grade ≥ 3 treatment-emergent adverse events (TEAEs), as well as TEAEs leading to dose reduction, interruption, discontinuation, and death
- Patients in Asia experienced more neutropenia, anemia, leukopenia, increased aspartate and alanine aminotransferases, and hypoalbuminemia compared with those in NA/EU
- Patients in NA/EU had higher rates of diarrhea and fatigue than those in Asia
- Neutropenia, diarrhea, and nausea were manageable with supportive care per established guidelines
- This is the largest safety analysis of SG in mBC published to date, and provides further support for SG as an mBC treatment with a consistent and manageable safety profile across patient subgroups

Plain Language Summary

- Sacituzumab govitecan is a drug that is approved in multiple countries for some types of metastatic breast cancer (breast cancer that has spread to other parts of the body)
- Different adverse events (unwanted issues that occur during treatment) can occur in people depending on factors like their current health and geographic region
- This analysis grouped safety data from 6 clinical studies to understand the safety of sacituzumab govitecan in a large pool of participants with metastatic breast cancer
- While there were some differences in adverse events depending on whether participants lived in North America/Europe or Asia, neither of these groups had higher rates of treatment discontinuation or death, which shows that these adverse events can be managed by prompt intervention from healthcare professionals
- This analysis shows that adverse events from sacituzumab govitecan are similar across multiple clinical studies and multiple regions of the world, and these events are manageable with supportive care such as medications to reduce adverse events

References: 1. Bardia A, et al. N Engl J Med. 2021;384;1529-41. 2. Rugo HS, et al. Lancet. 2023;402;1423-33. 3. Zhang J, et al. Ann Transl Med. 2021;9;1139. 4. Vlachou E, et al. Clin Genitourin Cancer. 2024;22;102090. 5. TRODELVY® (sacituzumab govitecan-hziy) [prescribing information] Foster City, CA: Gilead Sciences, Inc. November 2024. 6. TRODELVY® (sacituzumab govitecan-hziy) [summary of product characteristics]. County Cork, Ireland: Gilead Sciences Ireland UC; November 2023.

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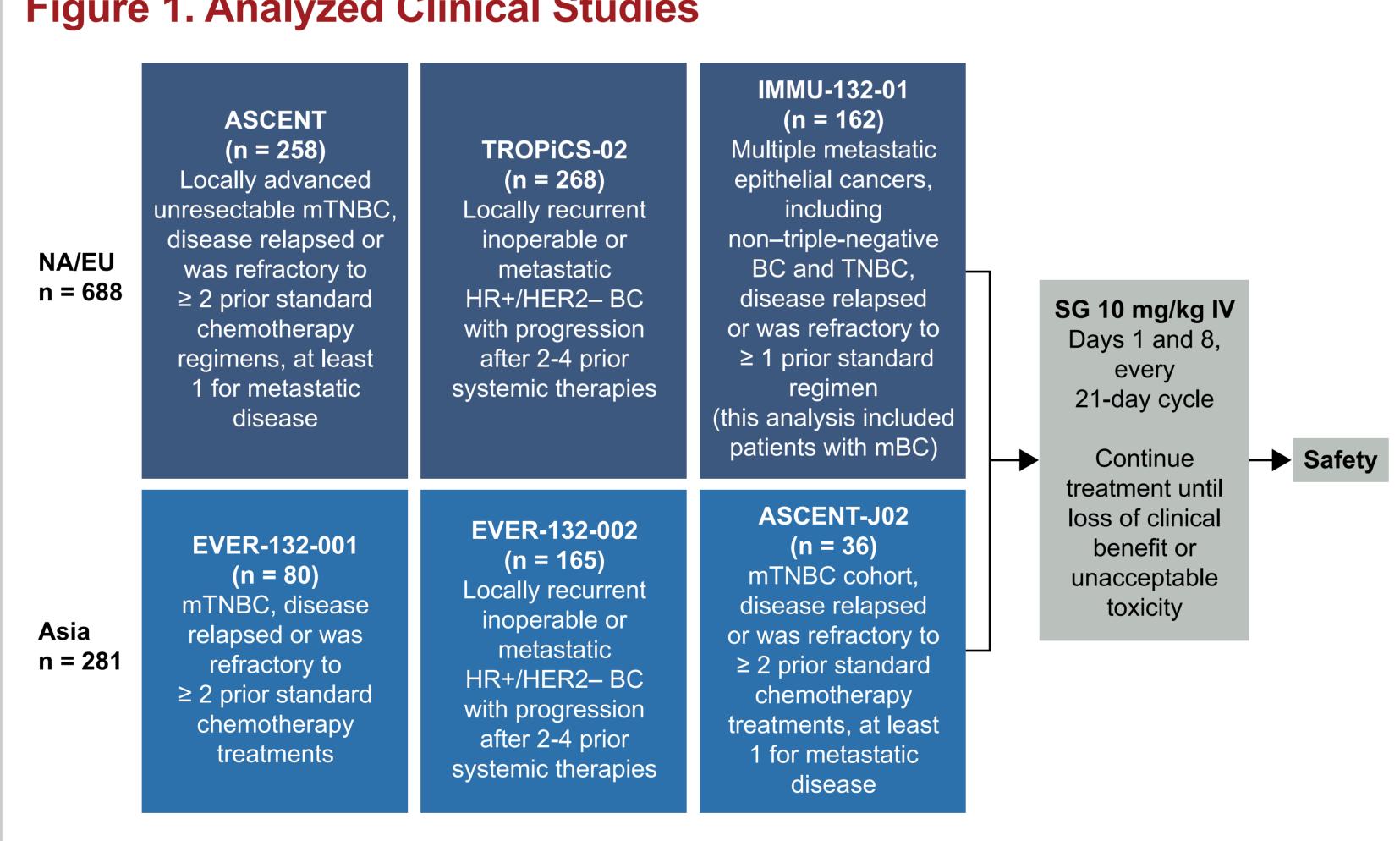
Introduction

- SG is a Trop-2—targeted antibody-drug conjugate (ADC) that has demonstrated significantly improved efficacy outcomes compared with standard-of-care treatment across multiple studies in patients with previously treated metastatic triple-negative breast cancer (mTNBC) and hormone receptor-positive/human epidermal growth factor receptor 2-negative (HR+/ HER2–) mBC, with a manageable safety profile^{1,2}
- Previous studies have indicated that the frequency of specific types of TEAEs in patients treated with ADCs may differ based on race or geographic region^{3,4}
- We present an analysis of pooled safety data from patients with mBC who received SG during clinical studies

Methods

- Safety data for patients who received SG treatment (10 mg/kg, days 1 and 8 every 21-day cycle) were pooled from multiple clinical studies conducted in different regions (Figure 1)
- NA/EU: ASCENT (NCT02574455), TROPICS-02 (NCT03901339), IMMU-132-01 (NCT01631552)
- Asia: EVER-132-001 (NCT04454437), EVER-132-002 (NCT04639986), ASCENT-J02 (NCT05101096)
- TEAEs were defined as any adverse events (AEs) that started on or after first dose date until ≤ 30 days after last dose date (or until initiation of subsequent anticancer therapy in studies in Asia)
- Safety data were analyzed by NA/EU vs Asia

Figure 1. Analyzed Clinical Studies



N values indicate number of SG-treated patients that met the specified criteria from each study. BC, breast cancer; HER2-, human epidermal growth factor receptor-negative; HR+, hormone receptor-positive; IV, intravenous; mBC, metastatic breast cancer; mTNBC, metastatic triple-negative breast cancer; NA/EU, North America/Europe; SG, sacituzumab govitecan; TNBC, triple-negative breast cancer.

Results

- The analysis included a total of 969 patients (688 NA/EU, 281 Asia)
- Baseline characteristics were comparable between NA/EU and Asia, with the exception of
- Rates of any-grade TEAEs and grade ≥ 3 TEAEs were consistent with previously reported rates and similar between patients in NA/EU and Asia; rates of TEAEs leading to dose reduction, dose interruption, discontinuation, and death were also comparable, although serious adverse events were slightly more common in NA/EU (Table 2)
- The most common TEAEs leading to discontinuation were:
- NA/EU: neutropenia, diarrhea, fatigue, pneumonia (each < 1%)</p>
- Asia: neutropenia, leukopenia, fatigue, septic shock (each 1%)

Results

Table 1. Patient Characteristics

NA/EU (n = 688)	Asia (n = 281)	
55 (27-86)	51 (23-72)	
4 (1)	0	
684 (99)	281 (100)	
517 (75)	0	
41 (6)	0	
26 (4)	281 (100)	
104 (15)	0	
25.2 (15.0-61.0)	23.5 (15.8-35.5)	
	(n = 688) 55 (27-86) 4 (1) 684 (99) 517 (75) 41 (6) 26 (4) 104 (15)	

BMI. body mass index; NA/EU. North America and Europe

Table 2. Pooled Safety Summary

NA/EU (n = 688)	Asia (n = 281)
687 (> 99)	281 (100)
506 (74)	220 (78)
195 (28)	62 (22)
147/526 (28) ^a	68 (24)
417 (61)	177 (63)
36 (5)	11 (4)
8 (1)	8 (3)
	(n = 688) 687 (> 99) 506 (74) 195 (28) 147/526 (28) ^a 417 (61) 36 (5)

 Any-grade and grade ≥ 3 neutropenia, anemia, and leukopenia occurred at higher rates in Asia than in NA/EU; any-grade increased aspartate aminotransferase, increased alanine aminotransferase, and hypoalbuminemia also occurred at higher rates in Asia (Figure 2)

• NA/EU had higher rates of any-grade and grade ≥ 3 diarrhea and any-grade fatigue compared with Asia

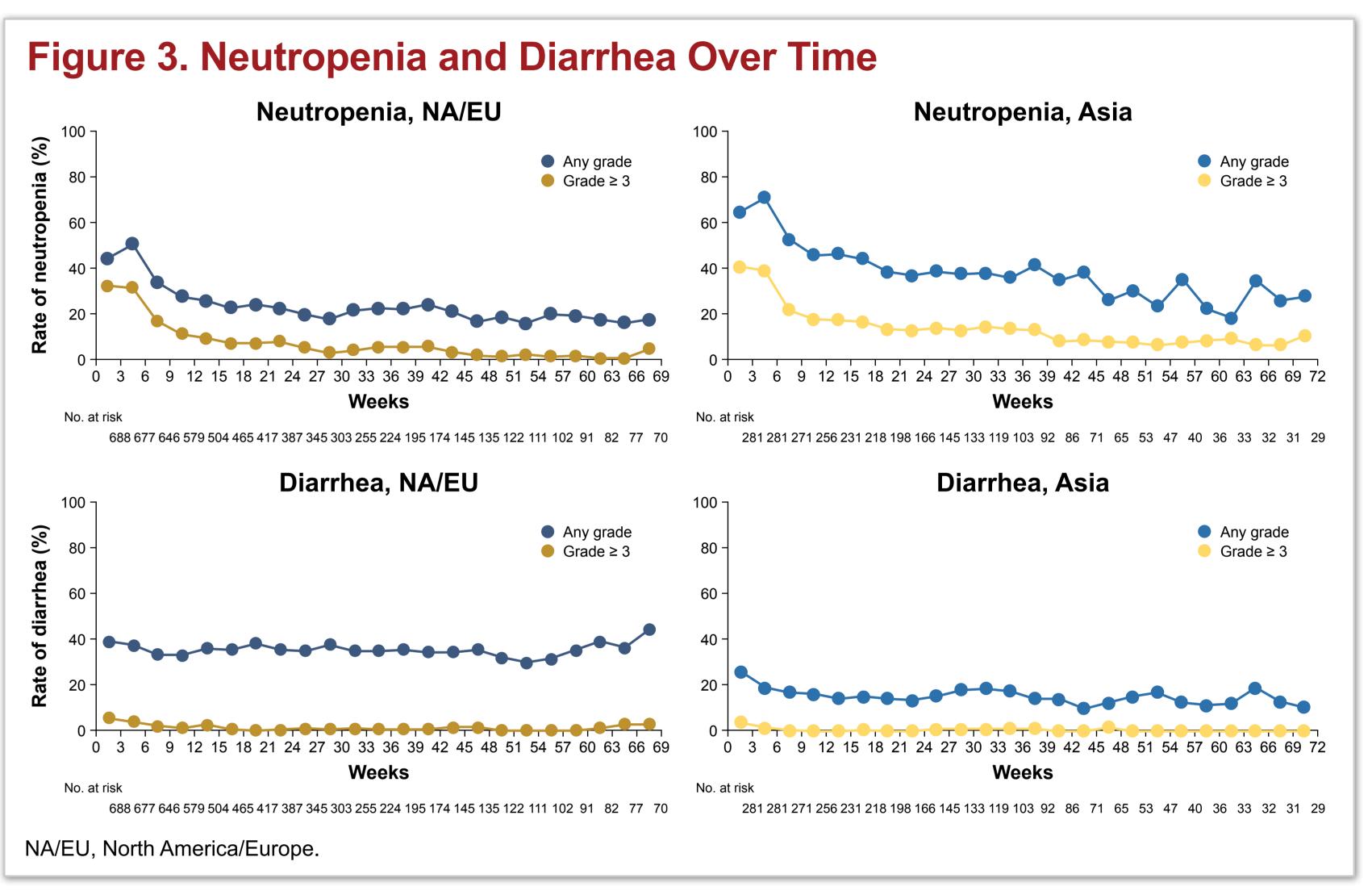
NA/EU. North America and Europe: SAE, serious adverse event; TEAE, treatment-emergent adverse event.

Figure 2. Most Common TEAEs by Region

Any-grade TEAEs that occurred in ≥ 20% of patients and grade ≥ 3 TEAEs that occurred in ≥ 10% of patients in either region are included ^aNeutropenia includes preferred terms of neutropenia and neutrophil count decreased. ^bAnemia includes preferred terms of anemia, hemoglobin decreased, and red blood cell count decreased. ^cLeukopenia includes preferred terms of leukopenia and white blood cell count decreased. NA/EU, North America/Europe; TEAE, treatment-emergent adverse event.

Asia Grade ≥ 3

- Neutropenia was most common early in the treatment period, and the rate of neutropenia fell over time (Figure 3)
- The rate at which patients developed diarrhea remained fairly stable over time



Total Patients (N = 969)

 Neutropenia, diarrhea, and nausea were treated according to recommended AE management guidelines^{5,6} (Table 3)

Table 3. TEAEs Management Summary

	Primary G-CSF Prophylaxis				
	NA/EU (n = 688)		Asia (n = 281)		
	Received	Did Not Receive	Received	Did Not Receive	
Patients, n (%)	(n = 65)	(n = 623)	(n = 36)	(n = 245)	
Any-grade neutropenia	26 (40)	450 (72)	21 (58)	223 (91)	
Grade ≥ 3 neutropenia	19 (29)	347 (56)	17 (47)	170 (69)	
	Patients Who Received an Antidiarrheal During SG Treatment		Patients Who Experienced Diarrhea and Received an Antidiarrheal During SG Treatment		
	NA/EU	Asia	NA/EU	Asia	
	(n = 343)	(n = 120)	(n = 298)	(n = 88)	
Any loperamide	304 (89)	59 (49)	271 (91)	56 (64)	
Any atropine	67 (20)	6 (5)	58 (19)	5 (6)	
Other antidiarrheal	80 (23)	87 (73)	76 (26)	58 (66)	
	•	Nausea and Vomiting			
		NA/EU (n = 68	8)	Asia (n = 281)	
Any nausea		431 (63)		159 (57)	
Nausea leading to dose reduction 7/318 (2)		7/318 (2) ^a		2/159 (1)	
Any vomiting 231 (34)		231 (34)		116 (41)	
Vomiting leading to dose reduction		5/151 (3) ^a		2/116 (2)	
Any antinauseant/antiemetic for prophylaxis of nausea/vomiting ^b		518 (75)		268 (95)	
1 agent		289/518 (56)		123/268 (46)	
2 concurrently		199/518 (38)		211/268 (79)	
3 concurrently		193/518 (37)	104/268 (39)		
≥ 4 concurrently		96/518 (19)		24/268 (9)	

ALS leading to dose reduction not collected in livily10-132-01. "Includes patients who received the stated number of concurrent antinauseants/antiemetics between events of nausea/vomiting. Patients could be included in more than 1 group as they may have received different combinations of antinauseants/antiemetics between different events of nausea/vomiting. AE, adverse event; G-CSF, granulocyte colony-stimulating factor; NA/EU, North America/Europe; SG, sacituzumab govitecan; TEAE, treatment-emergent adverse event.