



# Trodelvy<sup>®</sup> (sacituzumab govitecan-hziy)

## Impact of BMI on Safety and Efficacy in Patients with mBC

This document is in response to your request for information regarding the impact of body mass index (BMI) on the safety and efficacy of Trodelvy<sup>®</sup> (sacituzumab govitecan-hziy [SG]) in patients with metastatic breast cancer (mBC).

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### Relevant Product Labeling<sup>1</sup>

The recommended dosage of SG as a single agent or in combination with pembrolizumab is 10 mg/kg administered as an IV infusion on Days 1 and 8 of each 21-day cycle. Continue SG until disease progression or unacceptable toxicity. Do not administer SG at doses >10 mg/kg.

Calculate the required dose (mg) of SG based on the patient's current body weight.

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### Clinical Data on the Impact of BMI on the Safety and Efficacy of SG

#### ASCENT Study in 2L+ mTNBC

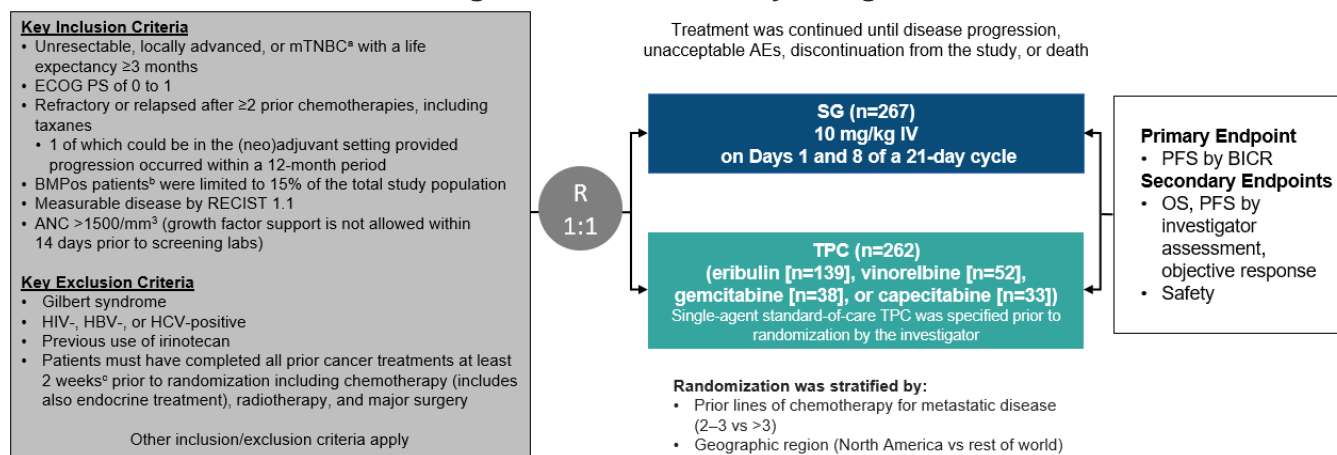
##### Study design<sup>2</sup>

ASCENT, a global, open-label, randomized, confirmatory, phase 3 study, was conducted to investigate the efficacy and safety of SG in comparison with chemotherapy treatment of physician's choice (TPC) in patients with refractory or relapsed metastatic triple-negative breast cancer (mTNBC) who had received  $\geq 2$  prior chemotherapies for unresectable, locally advanced, or metastatic disease.

A total of 529 patients were randomly assigned to receive SG (n=267) or TPC (n=262; Figure 1).

The primary endpoint was progression-free survival (PFS) in patients negative for brain metastases at baseline, as measured by a blinded independent central review (BICR). See Figure 1 for key secondary endpoints.

**Figure 1. ASCENT Study Design<sup>2</sup>**



Abbreviations: AE=adverse event; ANC=absolute neutrophil count; BMPos=positive for brain metastases; ECOG PS=Eastern Cooperative Oncology Group Performance Status; OS=overall survival; R=randomized; RECIST=Response Evaluation Criteria in Solid Tumors; TNBC=triple-negative breast cancer.

<sup>a</sup>TNBC diagnosis determined per American Society of Clinical Oncology-College of American Pathologists guidelines. mTNBC was histologically or cytologically confirmed.

<sup>b</sup>Had stable central nervous system disease for  $\geq 4$  weeks and could use stable, low-dose corticosteroids ( $\leq 20$  mg of prednisone/prednisolone or equivalent).

<sup>c</sup>Prior antibody treatment for cancer must have been completed  $\geq 3$  weeks prior to randomization.

### Ad hoc subgroup analysis<sup>3</sup>

An exploratory ad hoc subgroup analysis was conducted to assess the association of BMI on the efficacy and safety of SG vs TPC in patients from the ITT population of ASCENT (N=509). Patients received either SG 10 mg/kg body weight or TPC; dosage was not capped for high BMI. BMI was assessed at baseline; data from patients who were underweight (SG, n=8; TPC, n=11) were excluded from the analysis, as the number of patients was too small to draw meaningful conclusions. Overall, 222 patients (44%) had normal BMI values, 155 (30%) had overweight BMI, and 132 (26%) had obese BMI (Table 1).

**Table 1. ASCENT Subgroup Analysis: Baseline Demographics and Disease Characteristics by BMI Subgroup<sup>3</sup>**

Key Demographics and Characteristics	Normal (18.5 to $< 25$ kg/m <sup>2</sup> )		Overweight (25 to $< 30$ kg/m <sup>2</sup> )		Obese ( $\geq 30$ kg/m <sup>2</sup> )	
	SG (n=119)	TPC (n=103)	SG (n=71)	TPC (n=84)	SG (n=68)	TPC (n=64)
Age, median (range), years	53 (29–82)	53 (27–81)	56 (27–80)	55 (30–80)	53 (31–74)	52 (34–80)
Female, n (%)	119 (100)	103 (100)	70 (99)	84 (100)	68 (100)	64 (100)
BMI, mean $\pm$ SD, kg/m <sup>2</sup>	22.1 $\pm$ 1.69	22.1 $\pm$ 1.81	27.4 $\pm$ 1.39	27.3 $\pm$ 1.46	35.7 $\pm$ 5.18	35.2 $\pm$ 4.99
ECOG PS at screening, 0/1, n (%)	59 (50)/60 (50)	44 (43)/59 (57)	29 (41)/42 (59)	37 (44)/47 (56)	31 (46)/37 (54)	22 (34)/42 (66)
Prior systemic therapies, median (range), n	4 (2–11)	4 (2–14)	4 (2–17)	4 (2–14)	4 (2–11)	4 (2–11)

### Results

Within the SG group, higher BMI was associated with numerically improved objective response rate (ORR), PFS, and OS compared with normal BMI (Tables 2 and 3).

**Table 2. ASCENT Subgroup Analysis: PFS by Independent Review and OS Results by BMI Subgroup<sup>3</sup>**

BMI Subgroup		SG	TPC	HR (95% CI)	P-Value
PFS, median (95% CI), months	Normal (n=222)	4.2 (2.9–5.6)	2.1 (1.5–2.8)	0.48 (0.34–0.67)	<0.0001
	Overweight (n=155)	4.6 (3.3–6.3)	1.5 (1.4–1.6)	0.31 (0.2–0.47)	<0.0001
	Obese (n=132)	5.9 (4.1–8.3)	2.6 (1.6–3)	0.34 (0.21–0.53)	<0.0001
OS, median (95% CI), months	Normal (n=222)	11.2 (9.4–13.5)	6.2 (4.7–7.1)	0.54 (0.4–0.72)	<0.0001
	Overweight (n=155)	10.8 (9–14.2)	6.7 (5.2–8.9)	0.51 (0.35–0.74)	0.0003
	Obese (n=132)	14.9 (11.2–16.8)	8.7 (6.7–9.8)	0.45 (0.3–0.67)	<0.0001

Abbreviation: HR=hazard ratio.

**Table 3. ASCENT Subgroup Analysis: Response by Independent Review<sup>3</sup>**

Response	Normal (18.5 to <25 kg/m <sup>2</sup> )		Overweight (25 to <30 kg/m <sup>2</sup> )		Obese (≥30 kg/m <sup>2</sup> )	
	SG (n=119)	TPC (n=103)	SG (n=71)	TPC (n=84)	SG (n=68)	TPC (n=64)
ORR, <sup>a</sup> % (95% CI)	24 (17–33)	7 (3–14)	34 (23–46)	1 (0–7)	40 (28–52)	2 (0–8)
OR (95% CI)	4.42 (1.84–10.59)		42.38 (5.56–323.39)		41.49 (5.43–317.26)	
CBR, <sup>b</sup> % (95% CI)	34 (26–44)	10 (5–17)	41 (29–53)	5 (1–12)	50 (38–62)	6 (2–15)
OR (95% CI)	4.89 (2.3–10.39)		13.81 (4.55–41.91)		15 (4.9–45.89)	
BOR, <sup>c</sup> n (%)	CR	2 (2)	1 (1)	5 (7)	0	3 (4)
	PR	27 (23)	6 (6)	19 (27)	1 (1)	24 (35)
	SD	50 (42)	28 (27)	24 (34)	18 (21)	21 (31)
	SD ≥6 mo	12 (10)	3 (3)	5 (7)	3 (4)	7 (10)
	PD	31 (26)	37 (36)	17 (24)	38 (45)	14 (21)
	NE	9 (8)	31 (30)	6 (9)	27 (32)	6 (9)

Abbreviations: BOR=best overall response; CR=complete response; NE=not evaluable; OR=odds ratio; PD=progressive disease; PR=partial response; SD=stable disease.

<sup>a</sup>ORR defined as the best confirmed overall response (CR or PR).

<sup>b</sup>CBR defined as the best response of CR or PR or SD ≥6 months.

<sup>c</sup>BOR was based on independent review of tumor response at each tumor assessment per RECIST 1.1.

### Safety

In the SG safety population (n=258) dose interruptions and serious adverse events (SAEs) occurred more frequently in the overweight and obese subgroups than in the normal weight subgroup (Table 4). The most common AEs (≥5%) that led to SG dose reductions were neutropenia in the normal weight and overweight subgroups and neutropenia, diarrhea, nausea, and febrile neutropenia in the obese subgroup. Rates of SG dose reductions were highest in the obese subgroup. Rates of treatment-emergent adverse events (TEAEs) that led to SG discontinuation or death were low and were similar between BMI subgroups.

**Table 4. ASCENT Subgroup Analysis: SG Exposure and Safety Outcomes by BMI Subgroup (Safety Population)<sup>3</sup>**

Safety Outcome	All SG (n=258)	Normal (18.5 to <25 kg/m <sup>2</sup> ) (n=117)	Overweight (25 to <30 kg/m <sup>2</sup> ) (n=67)	Obese (≥30 kg/m <sup>2</sup> ) (n=66)
Time to first dose reduction, median (range), months	1.8 (0.5–18.7)	1.7 (0.7–7.5)	1.8 (0.5–9.7)	1.8 (0.7–18.7)
Patients with dose reductions, n %	66 (26)	17 (15)	18 (27)	29 (44)
1 dose reduction/ 2 dose reductions	52 (20)/ 14 (5)	15 (13)/2 (2)	14 (21)/4 (6)	21 (32)/ 8 (12)
Any TEAE, <sup>a</sup> n (%)	257 (100)	117 (100)	66 (99)	66 (100)
Grade ≥3	188 (73)	79 (68)	52 (78)	51 (77)
Treatment-emergent SAEs, n (%)	69 (27)	21 (18)	23 (34)	22 (33)
TEAEs that led to SG interruption, n (%)	162 (63)	68 (58)	43 (64)	47 (71)
TEAEs that led to SG dose reduction, n (%)	57 (22)	12 (10)	16 (24)	27 (41)
TEAEs that led to SG discontinuation, n (%)	12 (5)	5 (4)	2 (3)	5 (8)
TEAEs that led to death, n (%)	1 (<1)	1 (<1)	0	0

<sup>a</sup>A TEAE was defined as an AE with a start date on or after the date of the first dose of SG and ≤30 days after the date of the last dose of SG.

The rates of the most common (≥10%) Grade ≥3 TEAEs were higher in the obese subgroup than in the normal weight subgroup, and the most common Grade ≥3 TEAE experienced by patients treated with SG in all evaluated BMI subgroups was neutropenia (Table 5). In the obese subgroup, diarrhea and infection led to SG discontinuation in 1 patient each. No patients in the obese subgroup discontinued SG due to neutropenia, leukopenia, anemia, or febrile neutropenia.

**Table 5. ASCENT Subgroup Analysis: Most Common (≥10%) Grade ≥3 TEAEs in All SG-Treated Patients and by BMI Subgroups (Safety Population)<sup>3</sup>**

TEAE, <sup>a</sup> n (%)	All SG (n=258)	Normal (18 to <25 kg/m <sup>2</sup> ) (n=117)	Overweight (25 to <30 kg/m <sup>2</sup> ) (n=67)	Obese (≥30 kg/m <sup>2</sup> ) (n=66)
Neutropenia	135 (52)	61 (52)	33 (49)	38 (58)
Diarrhea	30 (12)	6 (5)	9 (13)	13 (20)
Leukopenia	27 (10)	10 (9)	6 (9)	11 (17)
Infections and infestations <sup>b</sup>	25 (10)	7 (6)	9 (13)	8 (12)
Anemia	24 (9)	6 (5)	8 (12)	10 (15)
Febrile neutropenia	15 (6)	2 (2)	5 (7)	8 (12)

<sup>a</sup>A TEAE was defined as an AE with a start date on or after the date of the first dose of SG and ≤30 days after the date of the last dose of SG.

<sup>b</sup>Includes all preferred terms within the system organ class infections and infestations.

## Retrospective Multicenter Cohort Study in Poland<sup>4</sup>

A retrospective multicenter cohort study assessed the effects of BMI and weight changes on efficacy and safety outcomes in a Polish cohort of patients that received SG for unresectable locally advanced or mTNBC (N=83; median [IQR] age 54 [46–65] years). At baseline, three patients were underweight (3.6%; BMI <18.5 kg/m<sup>2</sup>), 41 patients had normal weight (49.4%; 18.5–24.9 kg/m<sup>2</sup>), 19 patients were overweight (22.9%; 25–29.9 kg/m<sup>2</sup>), and 20 patients were obese (24.1%; ≥30 kg/m<sup>2</sup>).

Median follow-up time was 7.42 months (95% CI: 6.07–8.96). Median OS (primary endpoint) was 8.01 (95% CI: 6.05–9.75) months, and median PFS (secondary endpoint) was 4.07 (95% CI: 3.05–6.18) months. ORR was achieved in 25 (30.12%) patients.

There were no significant correlations between baseline weight, BMI, or weight changes and PFS. Although there were also no significant correlations between weight, BMI, or weight changes and OS, the proportional-hazards assumption was violated in the OS model ( $P=0.02$ ), indicating that the results for OS should be interpreted with caution. Further detail is in Table 6.

**Table 6. Correlation Between Baseline Weight, BMI, or Weight Changes and PFS or OS (Pieniazek et al)<sup>4</sup>**

Subgroup	HR (95% CI); P-Value	
	PFS	OS
Baseline weight	0.99 (0.956–1.026); 0.595	0.975 (0.933–1.018); 0.252
Weight change <sup>a</sup>	1.017 (0.953–1.085); 0.618	0.963 (0.904–1.027); 0.249
Normal weight (18.5–24.9 kg/m <sup>2</sup> )	0.768 (0.388–1.518); 0.447	0.67 (0.307–1.46); 0.313
Obese (≥30 kg/m <sup>2</sup> )	0.916 (0.362–2.317); 0.854	0.782 (0.263–2.325); 0.658

<sup>a</sup>Defined as the difference between weight at SG initiation and weight at the last SG cycle.

Note: Multivariate Cox regression analyses were conducted for PFS and OS.

There was no significant correlation between weight stability or weight gain/loss and the occurrence of AEs ( $P>0.05$ ), and no association for AEs specifically including diarrhea, nausea, anemia or alopecia.

Weight change was not significantly associated with the occurrence, severity, or type of AEs, including diarrhea, nausea, anemia, and neutropenia.

Neutropenia (63.9%) was the most common Grade ≥2 AE; other any-grade AEs reported (in >30% cases) were anemia (36.1%) and alopecia (31.3%).

## Single-Center Retrospective Chart Review<sup>5</sup>

A single-center, retrospective chart review of patients (N=128) with mTNBC (74.2%) and hormone receptor-positive/human epidermal growth factor receptor 2-negative (HR+/HER2-) mBC explored associations between patient/tumor characteristics, including BMI, and SG response. Patients received SG as median fourth-line therapy (range 1–13). Median patient BMI was 24.7 kg/m<sup>2</sup>. Patients with a BMI ≥30 kg/m<sup>2</sup> demonstrated improved PFS ( $P=0.026$ ). Multivariate analysis supported improved PFS, which was observed in patients with a BMI ≥30 kg/m<sup>2</sup> (HR 0.57, 95% CI 0.34–0.93,  $P=0.012$ ). Safety data specific to BMI was not reported.

## References

1. TRODELVY® Gilead Sciences Inc. Trodelvy (sacituzumab govitecan-hziy) for injection, for intravenous use. U.S. Prescribing Information. Foster City, CA.
2. Bardia A, Hurvitz SA, Tolaney SM, et al. Sacituzumab govitecan in metastatic triple-negative breast cancer. *N Engl J Med*. 2021;384(16):1529-1541.
3. Garcia-Estevez L, Bardia A, Rugo HS, et al. The association of high body mass index with the safety and efficacy of sacituzumab govitecan in patients with metastatic triple-negative breast cancer from the ASCENT study. *ESMO Open*. 2025;10(6).

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4. Pieniązek M, Polakiewicz-Gilowska A, Las-Jankowska M, et al. Weight change and BMI are not prognostic markers of survival outcomes in sacituzumab govitecan therapy for mTNBC in the Polish female cohort. *Ther Adv Med Oncol.* 2025;17:1-12.
5. Wong M, LeVee A, Ruel N, McArthur H, Mortimer JE. Characteristics associated with sacituzumab govitecan response in the real-world setting [Abstract P1-09-30]. Presented at: San Antonio Breast Cancer Symposium (SABCS); December 10-14, 2024; San Antonio, TX.

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## Product Label

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[www.gilead.com/-/media/files/pdfs/medicines/oncology/trodelvy/trodelvy\\_pi](http://www.gilead.com/-/media/files/pdfs/medicines/oncology/trodelvy/trodelvy_pi).

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