

**Title: Real-world use patterns, effectiveness, and tolerability of sacituzumab govitecan for second-line and later treatment of metastatic triple-negative breast cancer**

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**Background:** Sacituzumab govitecan (SG) is a Trop-2-directed antibody-drug conjugate approved in multiple countries for patients with metastatic triple-negative breast cancer (mTNBC) after  $\geq 2$  prior systemic therapies ( $\geq 1$  for metastatic disease). In the ASCENT study (NCT02574455), SG had superior efficacy vs single-agent chemotherapy as well as a manageable safety profile in patients with mTNBC. This study describes real-world (RW) SG dosing and clinical outcomes in patients with mTNBC treated with SG in the second-line (2L) and later (3L+) in the US.

**Methods:** This retrospective cohort study used deidentified US electronic health records in the ConcertAI database of patients ( $\geq 18$  years of age) with mTNBC treated with SG in the 2L and 3L+ from April 2020 to May 2022 to allow for a 3-month minimum data accrual. Clinical outcomes (RW overall survival, time to next treatment or death, and RW progression-free survival) from start of SG (index date) were estimated by Kaplan-Meier methods.

**Results:** Female patients (N = 230; median age of 60 years; 26% Black; 17% Eastern Cooperative Oncology Group performance status  $\geq 2$ , 66% treated in community settings) were included in the analysis. Median follow-up was 7.2 months (IQR, 3.9–11.1). RW outcomes of SG for all patients and by SG line (2L and 3L+) are shown in the table. Clinical outcomes were similar for all patients and stratified analyses (by race, concomitant granulocyte colony-stimulating factor [G-CSF] use, and treatment-free interval duration). Of the 134 patients (58%) who received G-CSF during SG treatment, 99 (74%) previously received G-CSF. Median time from SG start to G-CSF use was 8.5 days (IQR, 8–29). SG was discontinued due to toxicity in 17 patients (7%).

**Conclusions:** This RW analysis included patients with mTNBC treated with SG in the 2L and 3L+ settings since the approval of SG in the US. SG showed a survival benefit in this broad patient population. The follow-up duration was short for some patients in this analysis. As data will continue to mature over time, they will provide more insight into the RW effectiveness of SG.

	<b>2L mTNBC SG n = 77</b>	<b>3L+ mTNBC SG n = 153</b>	<b>2L+ mTNBC SG N = 230</b>
Median rwOS (95% CI), months <sup>a,b</sup>	13.9 (9.8-NE)	8.4 (7.4-10.3)	10.0 (8.3-11.1)
rwOS rate (95% CI), %			
12 months	51 (37-64)	35 (26-44)	40 (33-48)
24 months	32 (13-54)	20 (11-29)	23 (15-32)
Median TTNTD (95% CI), months <sup>b</sup>	4.8 (3.2-6.9)	4.4 (3.8-5.5)	4.6 (3.9-5.3)
Median rwPFS (95% CI), months <sup>b</sup>	4.9 (2.9-6.0)	3.5 (2.7-4.2)	3.8 (3.1-4.3)

<sup>a</sup>Kalinsky, et al. ASCO 2023 abstract e18879. <sup>b</sup>Measured from index date.

2L, second line; 2L+, second line and later lines; 3L+, third line and later lines; mTNBC, metastatic triple-negative breast cancer; NE, not estimable; rwOS, real-world overall survival; rwPFS, real-world progression-free survival; SG, sacituzumab govitecan; TTNTD, time to next treatment or death.