### **#P1-02-06**



San Antonio, TX

# Efficacy analysis and updated safety from the phase 2 PRIMED study of prophylactic granulocyte-colony stimulating factor (G-CSF) and loperamide for patients with HER2-negative advanced breast cancer treated with sacituzumab govitecan

#### José Manuel Pérez-García<sup>1,2</sup>, María Gion <sup>1,3,4</sup>, Manuel Ruiz-Borrego<sup>5</sup>, Isabel Blancas<sup>6,7,8</sup>, Elena López-Miranda<sup>1,3</sup>, Serafin Morales<sup>14</sup>, Patricia Cortez<sup>4,15</sup>, Zuzanna Piwowarska<sup>1</sup>, Eileen Shimizu<sup>1</sup>, José Antonio Guerrero<sup>1</sup>, Miguel Sampayo-Cordero<sup>1</sup>, Alejandro Martínez-Bueno<sup>15</sup>, Javier Cortés<sup>1,2,4,17</sup>, Antonio Llombart-Cussac<sup>1,18,19</sup>

1. Medica Scientia Innovation Research (MEDSIR) - Oncoclínicas & Co, Jersey City (New Jersey, USA), Sao Paulo (Brazil); 2. International Breast Cancer Center (IBCC), Pangaea Group, Barcelona, Spain; 3. Hospital Universitario Ramón y Cajal, Madrid, Spain; 4. IOB Madrid, Hospital Beata María Ana, Madrid, Spain 5. Hospital Universitario Virgen del Rocío, Sevilla, Spain; 6. Hospital Universitario Clínico San Cecilio, Granada, Spain; 8. Instituto de Investigación Biosanitaria de Granada, Spain; 9. Instituto Valenciano de Oncología, Valencia, Spain; 10. Institut Català d'Oncologia Hospitalet-Hospital Moises Broggi. Barcelona, Spain; 11. Complejo Hospital General de Catalunya, Sant Cugat del Vallès, Spain; 13. Hospital Universitario de Donostia, San Sebastián, Spain; 14. Hospital Universitario de Arnau de Villanova de Lleida, Lleida, Spain; 15. IOB Instituto Oncológico Dr. Rosell, Hospital Quiron Dexeus, Barcelona, Spain 17. Universidad Europea de Madrid, Faculty of Biomedical and Helath Sciences, Department of Medicine, Madrid, Spain; 18. Arnau de Vilanova, Valencia, Spain; 19. Universidad Católica de Valencia, Valencia, Spain

BACKGROUND

- Sacituzumab govitecan is a Trop-2-directed antibody drug conjugate that has shown a statistically significant and clinically meaningful overall survival benefit for patients with HER2[-] advanced breast cancer in two phase III trials: ASCENT and TROPiCS-02<sup>1-4</sup>.
- The most common treatment-emergent adverse events of any grade associated with sacituzumab govitecan are neutropenia (~60-70%) and diarrhea (~60%), which can lead to dose reductions and treatment interruptions/discontinuations<sup>2-3</sup>.
- Previously, the PRIMED study demonstrated that primary prophylactic administration of G-CSF and loperamide resulted in a clinically meaningful reduction of neutropenia and diarrhea during the first two treatment cycles of sacituzumab govitecan <sup>5</sup>.
- Herein we report the extended safety follow-up and secondary efficacy endpoints.

## STUDY DESIGN

#### Figure 1. PRIMED (NCT05520723) clinical trial design



### PATIENT RECRUITMENT



### I. Efficacy Results

- Between February 2023 and September 2023, 50 patients were enrolled (Figure 2): 32 patients with TNBC and 18 patients with HR[+]/HER2[-] breast cancer.
- At data cut-off (May 5, 2024), with a median follow-up of 9.0 months (range; 0.2-13.5), 9 patients remained on treatment (Figure 2).
- The median PFS for patients with TNBC was 6.4 months (95%CI; 6.1-10.3) and for patients with HR[+]/HER2[-] tumors was 5.8 months (95%CI; 4.2-NA) (Figure 3).
- The ORR and CBR were 34.4% and 71.9% for TNBC, and 16.7% and 44.4% for HR[+]/HER2[-] patients, respectively (Table 2).

#### Table 1. Patient baseline demographics

_						
Patient characteristics, n (%)	TNBC (N = 32)	HR[+]/HER2[-] (N = 18)	Overall (N = 50)			
Age in years, Median (Min; Max)	51.0 (31;74)	53.5 (37;72)	52.0 (31;74)			
ECOG						
0	18 (56.3%)	12 (66.7%)	30 (60.0%)			
1	14 (43.8%)	6 (33.3%)	20 (40.0%)			
Visceral disease						
Yes	20 (62.5%)	15 (83.3%)	35 (70.0%)			
No	12 (37.5%)	3 (16.7%)	15 (30.0%)			
Prior chemotherapy in the (neo)adjuvant setting						
Yes	19 (59.4%)	5 (27.8%)	24 (48.0%)			
No	13 (40.6%)	13 (72.2%)	26 (52.0%)			
Prior chemotherapy regimens for advanced disease						
0*	8 (25.0%)	2 (11.1%)	10 (20.0%)			
1	18 (56.3%)	11 (66.1%)	29 (58.0%)			
2	6 (18.8%)	5 (27.8%)	11 (22.0%)			

#### Figure 3. Progression-free survival in (A) TNBC, (B) HR[+]/HER2[-], and (C) all patients



Earlier systemic treatment in the curative setting was considered as one line of therapy if the development of unresectable ocally advanced or metastatic disease occurred within a 12-month period after completion of chemotherapy or immunotherapy

#### Table 2. Secondary efficacy endpoints

n (%)	TNBC (N=32)	HR[+]/HER2[-] (N=18)	Overall (N=50)
CR	1 (3.2%)	0 (0%)	1 (2.0%)
PR	10 (31.2%)	3 (16.7%)	13 (26.0%)
SD≥24w	12 (37.5%)	5 (27.8%)	17 (34.0%)
SD<24w	3 (9.4%)	3 (16.7%)	6 (12.0%)
PD	4 (12.5%)	6 (33.3%)	10 (20.0%)
Not performed*	2 (6.2%)	1 (5.6%)	3 (6.0%)
ORR, 95%CI	11 (34.4%) (19.1-53.2)	3 (16.7%) (4.4-42)	14 (28.0%) (16.7-42.7)
CBR, 95%CI	23 (71.9%) (53.3-65.8)	8 (44.4%) (21.5-69.2)	31 (62.0%) (47.2-75.4)

\*Patient stopped treatment before first post-baseline tumor assessment

Abbreviations: AEs: adverse events; BID: twice a day; CBR: clinical benefit rate; CR: complete response; D: days; ECOG: Eastern Cooperative Oncology Group; G: grade; G-CSF: granulocyte-colony stimulating factor; HR[+]/HER2[-]: hormone receptor-positive/HER2-negative; IV: intravenous; n(%): number of patients (percentage of patients); NA: not available; NCI-CTCAE: National Cancer Institute-Common Terminology Criteria for Adverse Events; ORR: objective response rate; PD: progressive disease; PFS: progression-free survival; PO: orally; PR: partial response; QD: daily; QoL: quality of life; RECIST V.1.1: Response Evaluation Criteria In Solid Tumors version 1.1; SC: subcutaneous; SD: stable disease; TEAEs: treatment emergent adverse events; TNBC: triple-negative breast cancer; Trop-2: trophoblast cell surface antigen 2

### RESULTS

### 2. Extended Safety Results

- Previously safety analysis had a median follow-up of 4.3 months (range; 0.2-8.6). • For the extended analysis, with a median follow-up of 9.0 months (range; 0.2-13.5), the incidence of any grade (G) neutropenia and diarrhea were 42.0% and 44.0%, respectively (Table 3)
- A total of 12 patients (24.0%) had  $\geq$  G3 neutropenia (18.0% G3; 6.0% G4; with no febrile neutropenia) and 9 patients (18.0%) had  $\geq$  G2 diarrhea (4.0% G3, with no G4). The overall rate of all AEs associated with dose reductions and treatment interruptions was
- 22.0% and 50.0%, respectively (Table 4).
- Four patients discontinued due to AEs, two of which were sacituzumab govitecan-related (G2 enteritis and G3 diarrhea).
- prophylactic use of loperamide and occurred in 56.0% of patients (Table 5)
- TEAEs were consistent with the known safety profile of sacituzumab govitecan (Table 5). • Constipation was higher in PRIMED, which was managable and expected given the

Table 3. Rates of neutropenia and diarrhea during the first two cycles and until data cut-off

Neutropenia			Diarrhea							
n (%)	Grade 1	Grade 2	Grade 3	Grade 4	Any Grade	n (%)	Grade 1	Grade 2	Grade 3	Any Grade
After two	2	4	6	2	14	After two	9	6	2	17
cycles	(4.0%)	(8.0%)	(12.0%)	(4.0%)	(28.0%)	cycles	(18.0%)	(12.0%)	(4.0%)	(34.0%)
Data cut-	4	5	9	3	21	Data cut-	13	7	2	22
off	(8.0%)	(10.0%)	(18.0%)	(6.0%)	(42.0%)	off	(26.0%)	(14.0%)	(4.0%)	(44.0%)

#### Table 4. Dose reductions, treatment interruptions, and permanent discontinuations due to adverse events during the first two cycles and until data cut-off

n (%)	<b>Dose Reductions</b>	Treatment Interruptions	Permanent Discontinuation
After two cycles	7 (14.0%)	15 (30.0%)	0 (0.0%)
Data cut-off	11 (22.0%)	25 (50.0%)	4 (8.0%)

Table 5: TEAEs occurring in ≥20% of patients or grade 3 or more until data cut-off

	Any grade	Grade 1	Grade 2	Grade ≥3
All TEAEs, n (%)	<b>50 (100%)</b>	<b>46 (92.0%)</b>	37 (74.0%)	26 (52.0%)
Gastrointestinal Disorders	47 (94.0%)	43 (86.0%)	16 (32.0%)	6 (12.0%)
- Constipation	28 (56.0%)	23 (46.0%)	5 (10.0%)	0 (0.0%)
- Nausea	27 (54.0%)	24 (48.0%)	3 (6.0%)	0 (0.0%)
- Diarrhea	22 (44.0%)	13 (26.0%)	7 (14.0%)	2 (4.0%)
- Abdominal Pain Upper	9 (18.0%)	7 (14.0%)	0 (0.0%)	2 (4.0%)
- Intestinal Obstruction	1 (2.0%)	0 (0.0%)	0 (0.0%)	1 (2.0%)
- Neutropenic Colitis	1 (2.0%)	0 (0.0%)	0 (0.0%)	1 (2.0%)
General Disorders and Administration Site Conditions	38 (76.0%)	22 (44.0%)	16 (32.0%)	8 (16.0%)
- Asthenia	35 (70.0%)	13 (26.0%)	15 (30.0%)	7 (14.0%)
- Pain	1 (2.0%)	0 (0.0%)	0 (0.0%)	1 (2.0%)
Blood and Lymphatic System Disorders	32 (64.0%)	18 (36.0%)	10 (20.0%)	13 (26.0%)
-Anemia	24 (48.0%)	15 (30.0%)	7 (14.0%)	2 (4.0%)
-Neutropenia	21 (42.0%)	4 (8.0%)	5 (10.0%)	12 (24.0%)
Infections and Infestations	23 (46.0%)	16 (32.0%)	8 (16.0%)	1 (2.0%)
- Acute Pyelonephritis	1 (2.0%)	0 (0.0%)	0 (0.0%)	1 (2.0%)
Skin and Subcutaneous Tissue Disorders	30 (60.0%)	17 (34.0%)	16 (32.0%)	5 (10.0%)
- Alopecia	20 (40.0%)	2 (4.0%)	14 (28.0%)	4 (8.0%)
- Urticaria	2 (4.0%)	0 (0.0%)	1 (2.0%)	1 (2.0%)
Investigations	14 (28.0%)	13 (26.0%)	2 (4.0%)	2 (4.0%)
- Increased Gamma-Glutamyltransferase	6 (12.0%)	4 (8.0%)	0 (0.0%)	2 (4.0%)
Hepatobiliary Disorders	5 (10.0%)	3 (6.0%)	1 (2.0%)	1 (2.0%)
- Hepatic Failure	1 (2.0%)	0 (0.0%)	0 (0.0%)	1 (2.0%)

### CONCLUSIONS

- The efficacy results of sacituzumab govitecan in the PRIMED study are consistent with previously reported data.
- PRIMED had lower rates of all grade and  $\geq$ G3 neutropenia and diarrhea compared to the ASCENT and TROPICS02 trials, with fewer dose reductions and treatment interruptions.
- G-CSF and loperamide should be considered as primary prophylactic treatment for patients receiving sacituzumab govitecan.

### **BIBLIOGRAPHY**

- . Bardia et. al. 2017. Journal of Clinical Oncology 35 (19): 2141-2148.
- 2. Bardia et. al. 2021. New England Journal of Medicine 384 (16): 1529-1541.
- . Rugo et. al. 2022. Journal of Clinical Oncology 40 (29): 3375-3376.
- Rugo et. al., 2023. The Lancet 402 (10411): P1423-1433.
- 5. Pérez-Garía et. al., 2024. Journal of Clinical Oncology 42, 1101-1101(2024).

### ACKNOWLEDGEMENTS

The PRIMED team is extremely grateful to all the patients and their families. We want to thank all the trial teams of the participating sites, the trial unit staff at MEDSIR (study sponsor), and Gilead Sciences (study funder).

Scan here to view a PDF of this poster. Copies of this poster obtained hrough QR (Quick Response) code are per personal use only and may not be reproduced without written permission of the authors.

Scan here to view a plain language summary of this trial.



Scan here for the slide deck version of this

### **CONTACT INFORMATION**

José Manuel Pérez-García, MD

jose.perez@medsir.org