

# Sasanlimab in combination with Bacillus Calmette-Guérin (BCG) in BCG-naïve, high-risk non-muscle-invasive bladder cancer (NMIBC): Patient-reported outcomes (PROs) from CREST

## Objective

- To evaluate PROs from the CREST study (NCT04165317) to assess the impact of sasanlimab in combination with BCG-I+M on quality of life in patients with high-risk NMIBC

## Conclusions

- In both the sasanlimab + BCG-I+M (Arm A) and BCG-I+M (Arm C) arms, PROs across functioning domains and key symptoms measured by the EORTC QLQ-C30 and NMIBC24 questionnaires had no clinically meaningful change from baseline, based on a 10-point threshold
- Between-group differences in within-group change did not meet the threshold of a 5- to 10-point difference to be clinically meaningful
- These PROs can help inform the benefit-risk assessment of sasanlimab in combination with BCG-I+M
- The enhanced efficacy outcomes reported in the primary analysis<sup>1</sup> and these results support that subcutaneous sasanlimab in combination with BCG-I+M has the potential to redefine the treatment paradigm and clinical decision-making for patients with high-risk NMIBC without additional impacts on patient quality of life

Jens Bedke,<sup>1</sup> Neal D. Shore,<sup>2</sup> Thomas B. Powles,<sup>3</sup> Matthew D. Galsky,<sup>4</sup> Joan Palou Redorta,<sup>5</sup> Daniel Robin Saltzstein,<sup>6</sup> Félix Guerrero-Ramos,<sup>7</sup> Motonobu Nakamura,<sup>8</sup> Tilman Todenhofer,<sup>9</sup> Raj Satkunam,<sup>10</sup> Peter C. Black,<sup>11</sup> Julia Brinkmann,<sup>12</sup> Jane Chang,<sup>13</sup> Anthony Eccles,<sup>14</sup> Ariane Raaijman,<sup>15</sup> Jennifer Vermette,<sup>16</sup> Gary D. Steinberg<sup>17</sup>

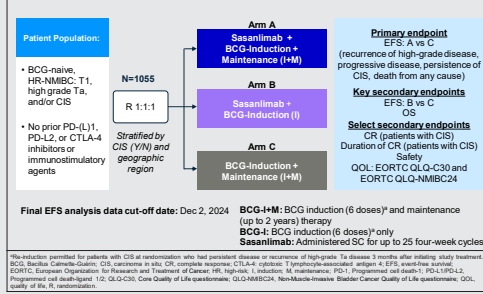
## Background

- Standard care for high-risk NMIBC includes TURBT followed by BCG-I+M<sup>1</sup>
  - Approximately 40% of patients experience disease recurrence or progression at 24 months, with unfavorable prognosis<sup>2</sup>
  - There is a high unmet need for enhanced treatment options that provide durable disease control by delaying disease recurrence and progression while maintaining quality of life<sup>3</sup>
- In the Phase 3 CREST trial, sasanlimab in combination with BCG-I+M (Arm A) showed a statistically significant prolongation of EFS compared with the standard of care (BCG-I+M; Arm C) in patients with high-risk NMIBC<sup>1</sup>
  - No difference in EFS was observed between sasanlimab in combination with BCG-I (Arm B) and BCG-I+M (Arm C)
- Oncology studies of patient preferences suggest that patients generally prefer the subcutaneous route of administration to other routes<sup>4</sup>
  - In the CREST study, subcutaneous sasanlimab (300 mg) was administered in a 2-ml, pre-filled syringe every 4 weeks, for up to 25 cycles
  - Here, we report PROs for Arm A v. C of the CREST study to assess the impact of sasanlimab in combination with BCG-I+M on quality of life in patients with high-risk NMIBC

## Methods

- CREST is a global, phase 3, randomized study (Figure 1)

### Figure 1. CREST Study Design



## Results

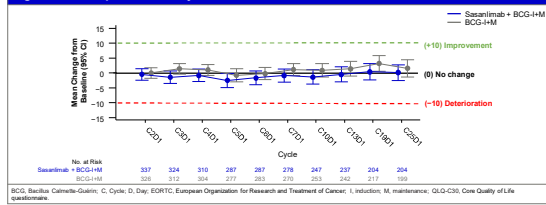
- Baseline demographics and disease characteristics were generally balanced between arms (Table 1)
- The study population for Arms A and C was predominantly male (80.2%) and had an ECOG performance status of 0 (89.8%)
- UC was reported in 95.4% of patients, 56.6% had T1 tumor as the highest grade, and 25.0% had CIS with or without papillary tumors

- At data cutoff (Dec 2, 2024), 695 of 703 patients randomized to Arms A (n=348) and C (n=347) had a baseline score and ≥1 post-baseline score
- Completion rates were >84% for all visits through the end-of-treatment visit (Cycle 25) (Figure 3)

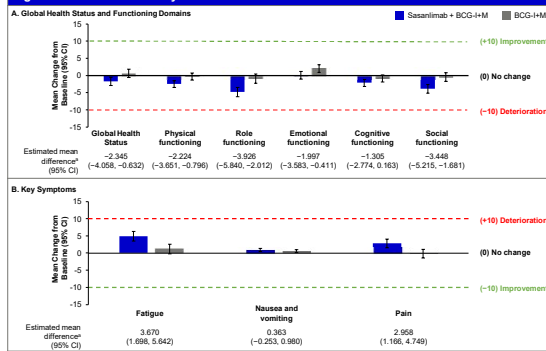
### EORTC QLQ-C30

- Baseline Global Health Status scores were numerically similar between arms (mean [SD]: Arm A, 75.1 [17.5] vs Arm C, 75.6 [18.1]; not shown)
- A descriptive summary of mean change from baseline over time for the EORTC QLQ-C30 by visit for each treatment arm is shown for Global Health Status (Figure 4)
  - Longitudinal changes for the functioning scales (not shown) had similar findings to the Global Health Status
  - In the mixed model analysis, no functioning scale or symptom met the definition of a clinically meaningful change from baseline of ≥10 points for either treatment arm for within-arm comparisons (Figure 5)
  - No differences met the 5- to 10-point threshold of a clinically meaningful difference between treatment arms (Figure 5)

### Figure 4. Descriptive Summary of EORTC QLQ-C30: Global Health Status<sup>4</sup>



### Figure 5. Mixed Model Analysis of EORTC QLQ-C30



## PROs

- PROs were secondary endpoints and not included in the testing hierarchy
- EORTC QLQ-C30 and EORTC QLQ-NMIBC24 questionnaires were conducted at baseline, throughout treatment at select scheduled visits, and during the safety follow-up period (Figure 2)
  - The EORTC QLQ-C30 and NMIBC24 items were scored according to their respective user guides
  - Missing items were handled according to the respective scoring manuals

### Figure 2. Schedule of PRO Assessment

BL	C1D1 through C21D1*	C10D1	C13D1	C15D1	C19D1	C25D1	EOT	Disease FUP
BL	BL	BL	BL	BL	BL	BL	BL	BL

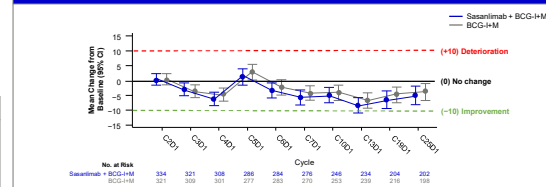
\*Completed every 4 weeks. \*Patients with no recurrence of high-grade disease or progression before EOT were assessed every 12 weeks for 2 years after randomization and every 24 weeks thereafter until recurrence of high-grade disease or disease progression, consent withdrawal, lost to follow-up or death. BL, Baseline; C, cycle; D, day; EOT, end of treatment; FUP, follow-up.

- Completion rates were calculated as the number of patients who completed all questions divided by the number of patients who were expected to complete the questionnaire at each respective visit
- Plots of mean change from baseline over time for the EORTC QLQ-C30 Global Health Status and NMIBC24 urinary symptoms scores are descriptive
- Longitudinal mixed effect-model analyses were used to assess change from baseline in the EORTC QLQ-C30 and NMIBC24 items
  - All available data for each participant prior to the end of therapy were used in the analyses
  - Data are presented as estimated least square means with 95% CI
  - Random coefficient models were carried out for the EORTC QLQ-C30 and NMIBC24 (all domains, subscales, and symptoms)
  - Model predictors were the corresponding baseline PRO score, treatment, time (treated as a continuous variable), and treatment-by-time interaction; intercept and time were considered as random effects particular to each participant
- A ≥10-point within-group change from baseline has been validated as clinically meaningful for EORTC QLQ-C30<sup>5</sup>
- A between-group estimated mean difference in within-group change of 5 to 10 points is typically considered clinically meaningful<sup>6</sup>
- Data are shown for Arm A and Arm C

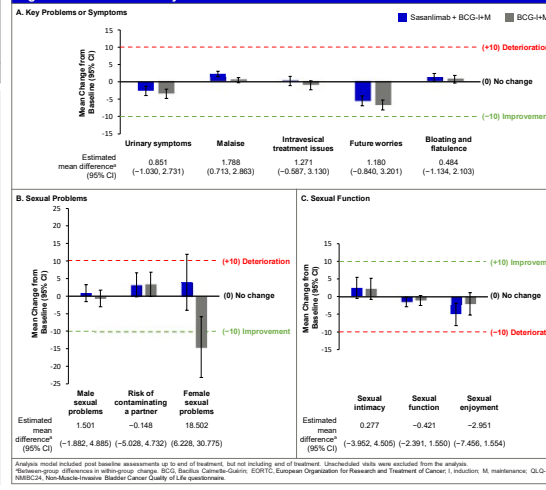
### EORTC QLQ-NMIBC24

- A descriptive summary of mean change from baseline over time for the EORTC QLQ-NMIBC24 urinary symptoms by visit for each treatment arm is shown (Figure 6)
- In the mixed model analysis for estimated mean differences between groups, no symptom met the threshold for a clinically meaningful difference between treatment arms, and no symptom met the definition of a clinically meaningful change from baseline in either treatment arm, except female sexual problems, which was assessed in a small subset of patients (Arm A, n=5; Arm C, n=4) (Figure 7)

### Figure 6. Descriptive Summary of EORTC QLQ-NMIBC24: Urinary Symptoms

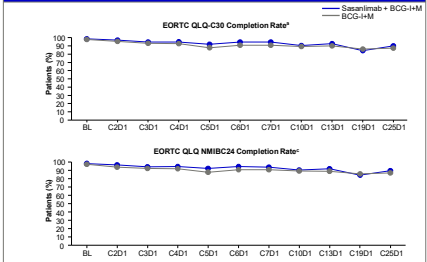


### Figure 7. Mixed Model Analysis of EORTC QLQ-NMIBC24



	Sasanlimab + BCG-I+M (N=352)	BCG-I+M (N=351)
Median age (range), y	67 (31-85)	67 (31-91)
Male, n (%)	280 (79.5)	284 (80.9)
Race, n (%)		
White	225 (63.9)	210 (59.8)
Asian	115 (32.7)	125 (35.5)
ECOG performance status, n (%)		
0	298 (84.7)	291 (82.9)
1	54 (15.3)	59 (16.8)
2	0	1 (0.3)
Geographic region, n (%)		
US	49 (13.9)	47 (13.4)
Western Europe or Canada	85 (24.1)	86 (24.5)
Rest of world <sup>1</sup>	219 (61.9)	219 (62.1)
Histological classification, n (%)		
UC	339 (96.3)	332 (94.6)
UC with squamous differentiation	6 (1.7)	6 (1.7)
UC with glandular differentiation	2 (0.6)	3 (0.9)
UC with variant histology	4 (1.1)	6 (1.7)
Other	1 (0.3)	2 (0.6)
Presence of CIS at randomization, n (%)	88 (25.0)	88 (25.1)
Worst T stage, n (%)		
CIS	52 (14.8)	50 (14.2)
T1	96 (27.3)	107 (30.5)
T1	204 (58.3)	194 (55.3)
Smoking history, n (%)		
Never smoker	127 (36.1)	126 (35.9)
Current smoker	71 (20.2)	54 (15.4)
Former smoker	154 (43.8)	171 (48.7)
PD-L1 status		
High <sup>2</sup>	77 (22.6)	73 (21.7)
Low <sup>2</sup>	252 (74.1)	253 (75.1)
Unknown	11 (3.2)	11 (3.2)

### Figure 3. Completion rates for EORTC QLQ-C30 and EORTC QLQ-NMIBC24



Percentages use the number of participants who are expected to complete the questionnaire at the respective visit as the denominator. \*All questions assessed. †Number of participants who are expected to complete the questionnaire at the respective visit. ‡At least 1 question assessed. BCG, Bacillus Calmette-Guérin; BL, Baseline; C, cycle; D, day; EORTC, European Organization for Research and Treatment of Cancer; I, induction; M, maintenance; NMIBC24, Non-Muscle-Invasive Bladder Cancer Quality of Life questionnaire; QLQ-C30, Core Quality of Life questionnaire; QLQ-NMIBC24, Non-Muscle-Invasive Bladder Cancer Quality of Life questionnaire.

**Electronic Poster**  
Please scan this QR code with your smartphone to view this poster. Copies of this poster obtained through Quick Response (QR) Code are for personal use only and may not be reproduced without permission from ASCO or the author of this poster. If you do not have a smartphone, access the poster via the internet at: <https://asciointel.com/congress-poster/pbs/691184/pbs691184>

**Plain Language Summary**  
Please scan this QR code with your smartphone to view a plain language summary. If you do not have a smartphone, access the plain language summary via the internet at: <https://asciointel.com/congress-poster/pbs/691184/pbs691184>

References: 1. Shore N, et al. JCO 2023 (Suppl 18): Abstract 4501. 2. Jemal A, et al. CA Cancer Clin 2017;127(12):2324-2358. 3. Bedke J, et al. Eur Urol 2015;68:331-341. 4. Kessler JL, et al. JCO 2019;37(18):2586-2594. 5. Powles TB, et al. Ann Oncol 2014;25(12):2496-2503. 6. Bedke J, et al. JCO 2015;33(18):2586-2594. 7. Bedke J, et al. JCO 2015;33(18):2586-2594. 8. Bedke J, et al. JCO 2015;33(18):2586-2594. 9. Bedke J, et al. JCO 2015;33(18):2586-2594. 10. Bedke J, et al. JCO 2015;33(18):2586-2594. 11. Bedke J, et al. JCO 2015;33(18):2586-2594. 12. Bedke J, et al. JCO 2015;33(18):2586-2594. 13. Bedke J, et al. JCO 2015;33(18):2586-2594. 14. Bedke J, et al. JCO 2015;33(18):2586-2594. 15. Bedke J, et al. JCO 2015;33(18):2586-2594. 16. Bedke J, et al. JCO 2015;33(18):2586-2594. 17. Bedke J, et al. JCO 2015;33(18):2586-2594.