Sacituzumab govitecan + pembrolizumab in first-line metastatic non-small cell lung cancer: efficacy results by histology from the EVOKE-02 study

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Conclusions

- In EVOKE-02, sacituzumab govitecan (SG) + pembrolizumab (pembro) showed promising activity regardless of histology (squamous or nonsquamous) in patients with previously untreated metastatic non-small cell lung cancer (mNSCLC) across programmed death ligand 1 (PD-L1) subgroups (PD-L1 tumor proportion score [TPS] <50% and ≥50%)
 - Within each PD-L1 subgroup, the unconfirmed objective response rates (ORRs) were numerically higher in patients with squamous vs nonsquamous mNSCLC
- The safety profile of SG + pembro was acceptable and consistent with the known safety profiles for each agent^{1,2}
- The rate of treatment-emergent adverse events (TEAEs) leading to treatment discontinuations was 17.5%
- The frequencies and types of immune-mediated TEAEs were consistent with the known safety profile of pembro
- These results support the approach of the ongoing phase 3 EVOKE-03 study, which is comparing the efficacy and safety of SG + pembro to pembro alone in the treatment of patients with mNSCLC (squamous or nonsquamous) with PD-L1 TPS ≥50%

Plain Language Summary

Many patients with non-small cell lung cancer (NSCLC) that has spread throughout their body are first treated with a drug called pembrolizumab with or without chemotherapy, but in many patients this does not shrink their tumors. Recently, researchers showed that a new drug, sacituzumab govitecan, was effective at shrinking cancer masses when combined with pembrolizumab in treating patients with NSCLC. Lung cancers can form from different tissues, and in NSCLC, doctors classify them as squamous and nonsquamous. Patients with squamous NSCLC have shorter survival times than those with nonsquamous NSCLC. We report that sacituzumab govitecan plus pembrolizumab was effective at reducing the size or number of cancer lesions in patients with NSCLC, regardless of tissue type. This drug combination was also well tolerated and no unexpected adverse events were seen.

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Introduction

- Pembro ± chemotherapy is a standard-of-care frontline (1L) treatment option for patients with mNSCLC and without actionable genomic mutations³; however, the disease does not respond to initial treatment for many patients⁴
- SG is a first-in-class Trop-2—directed antibody-drug conjugate⁵
- SG is being evaluated in the EVOKE-02 study (NCT05186974), which is an ongoing, multicenter, phase 2 trial with 4 cohorts; 2 of the cohorts (Cohorts A and B) are assessing the efficacy and safety of SG + pembro as 1L therapy in patients with squamous or nonsquamous mNSCLC without actionable genomic mutations
- Preliminary results for Cohorts A and B of EVOKE-02 demonstrated encouraging response rates and duration of response (DOR)⁶
- Among patients with PD-L1 tumor proportion score (TPS) ≥50% (Cohort A), the ORR was 69%, the disease control rate (DCR) was 78%, and the median DOR was not reached
- Among patients with PD-L1 TPS <50% (Cohort B), the ORR was 44%, the DCR was 78%, and the median DOR was not reached
- NSCLC prognosis can be influenced by histology; patients with squamous histology have a shorter median overall survival than patients with nonsquamous histology⁷
- Therefore, we conducted this analysis of EVOKE-02 to examine efficacy by histology (squamous vs nonsquamous) and present safety results from Cohorts A and B

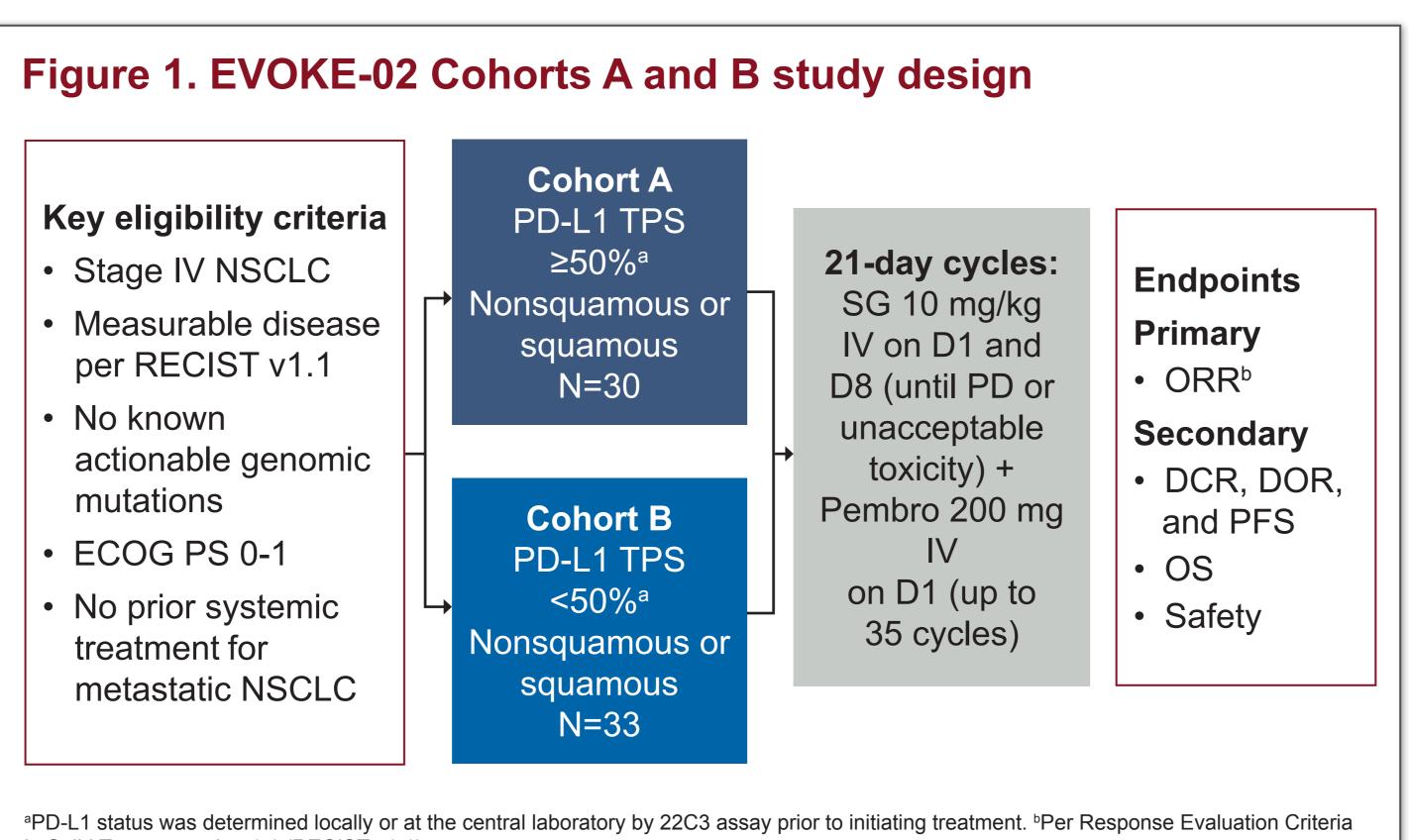
Methods

Key eligibility criteria

- Stage IV NSCLC Measurable disease per RECIST v1.1
- No known actionable genomic mutations
- ECOG PS 0-1
- No prior systemic treatment for metastatic NSCLC

in Solid Tumors version 1.1 (RECIST v1.1). D1, day 1; D8, day 8; ECOG PS, Eastern Cooperative Oncology Group performance status; IV, intravenous; OS, overall survival; PD, progressive disease; PFS, progression-free survival.

• For this analysis, response was assessed by investigators in efficacy-evaluable patients (those with ≥ 13 weeks of follow-up as of the data cutoff date)



Results

Patient Baseline **Characteristics**

- As of June 16, 2023, 30 patients in Cohort A and 33 patients in Cohort B were enrolled (Table 1)
- Across both cohorts, 25 (39.7%) patients had squamous mNSCLC and 38 (60.3%) patients had nonsquamous mNSCLC

Efficacy

- In Cohort A, the unconfirmed ORR was 72.7% (8/11) in patients with squamous mNSCLC and 66.7% (12/18) in patients with nonsquamous mNSCLC
- In Cohort B, the unconfirmed ORR was 53.8% (7/13) and 36.8% (7/19), respectively, in patients with squamous and nonsquamous mNSCLC (Table 2)
- Median DOR was not reached in either cohort

nonsquamous mNSCLC

	Squamous mNSCLC		Nonsquamous mNSCLC	
Efficacy by investigator assessment	Cohort A PD-L1 TPS ≥50% (n=11)	Cohort B PD-L1 TPS <50% (n=13)	Cohort A PD-L1 TPS ≥50% (n=18)	Cohort B PD-L1 TPS <50% (n=19)
ORR, ª n (%) 95% Cl	8 (72.7) 39.0-94.0	7 (53.8) 25.1-80.8	12 (66.7) 41.0-86.7	7 (36.8) 16.3-61.6
Best overall response, ^a n (%) PR Confirmed PR SD PD Not assessed	8 (72.7) 7 (63.6) 1 (9.1) 2 (18.2) 0	7 (53.8) 6 (46.2) 4 (30.8) 0 2 (15.4)	12 (66.7) 11 (61.1) 4 (22.2) 1 (5.6) 1 (5.6)	7 (36.8) 6 (31.6) 7 (36.8) 2 (10.5) 3 (15.8)
DCR,⁵ n (%) [95% CI]	9 (81.8) [48.2-97.7]	11 (84.6) [54.6-98.1]	16 (88.9) [65.3-98.6]	14 (73.7) [48.8-90.9]

^aUnconfirmed responses per RECIST v1.1, except where otherwise stated. ^bComplete response + PR + SD (for ≥6 weeks if confirmed). CI, confidence interval; PR, partial response; SD, stable disease.

Characteristic	Cohort A PD-L1 TPS ≥50% (n=30)	Cohort B PD-L1 TPS <50% (n=33)	
Median age (range), years	67 (47-77)	68 (47-80)	
Sex, n (%) Male	24 (80.0)	26 (78.8)	
Race, n (%)			
Asian	6 (20.0)	5 (15.2)	
Black	2 (6.7)	1 (3.0)	
White	22 (73.3)	27 (81.8)	
ECOG PS, n (%)			
0	6 (20.0)	8 (24.2)	
1	24 (80.0)	25 (75.8)	
Histology, n (%)			
Squamous	12 (40.0)	13 (39.4)	
Nonsquamous	18 (60.0)	20 (60.6)	
Disease stage at diagnosis, n (%)			
I-III	5 (16.7)	5 (15.2)	
IV	24 (80.0)	28 (84.8)	
PD-L1 TPS, n (%)			
≥50%	30 (100.0)	0	
1-49%	0	16 (48.5)	
<1%	0	17 (51.5)	

Table 2. Response rates for frontline SG + pembro among patients with squamous and

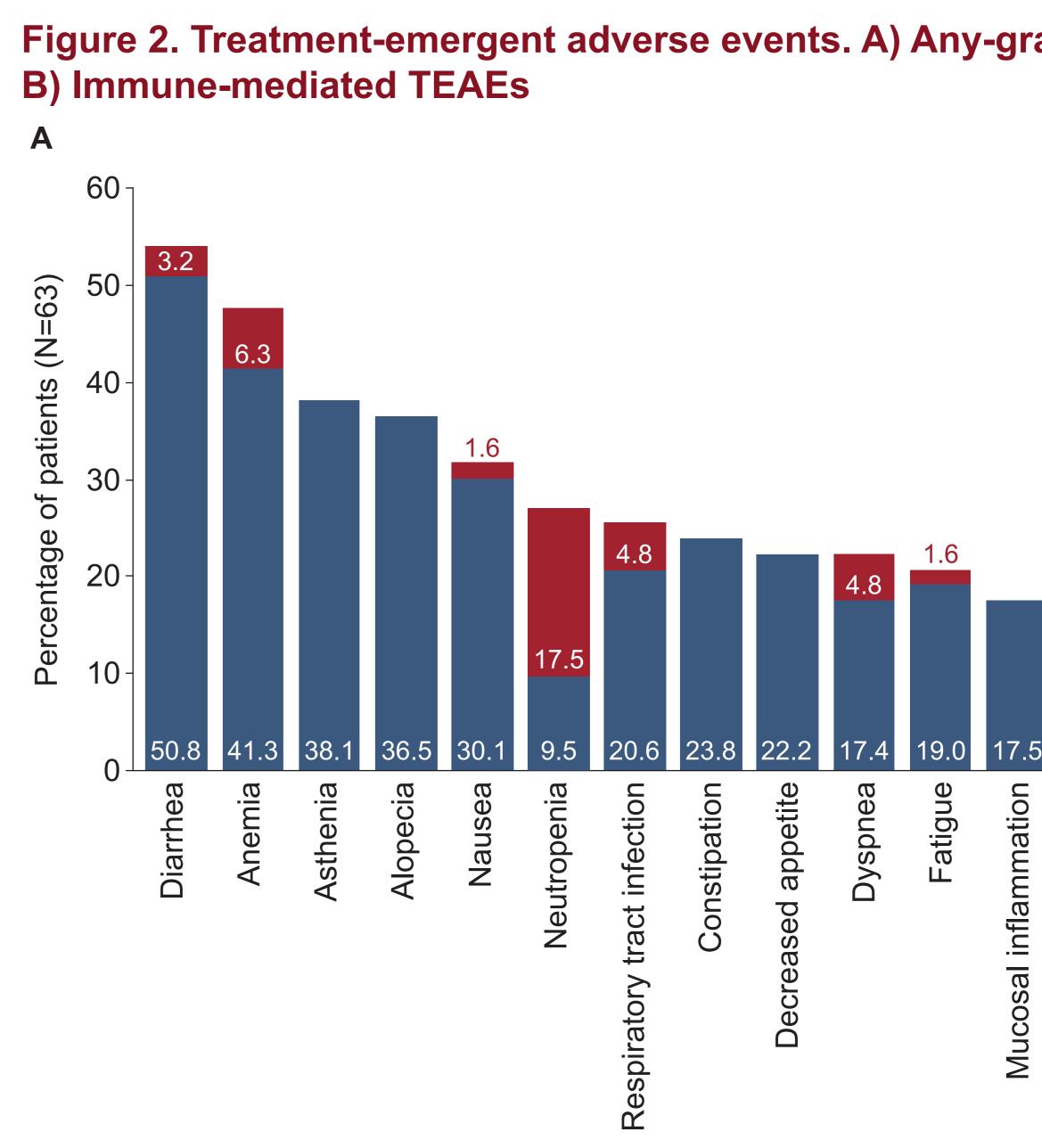
Table 3. Safe

Patients, n (% **Any-grade TE** Grade ≥3 TEA **TEAE related**^a **Serious TEAE TEAE** leading

TEAE leading **TEAE** leading

TEAE leading Related to an

nvestigator-assessed: ^bSepsi







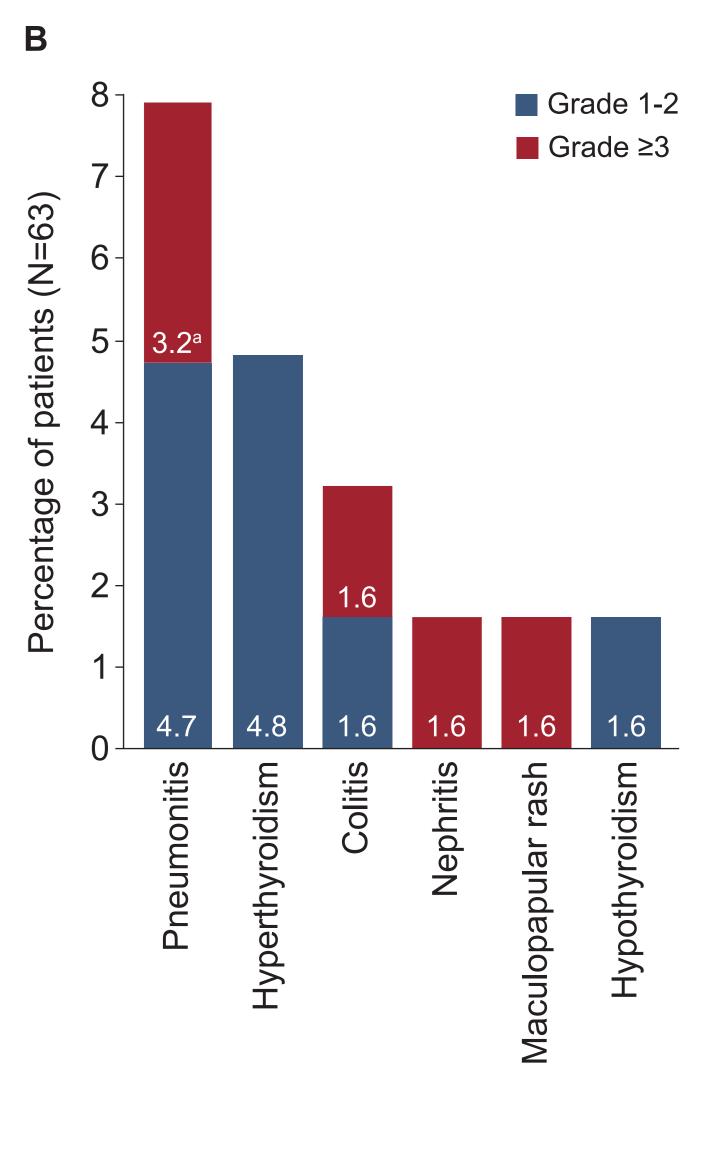
• An overview of treatment-emergent adverse events (TEAEs) in the safety population (N=63) is shown in Table 3 • The rate of TEAEs leading to treatment discontinuation was 17.5%

• Four patients (6.3%; all in Cohort B) had a TEAE that led to death: sudden death, respiratory tract infection, sepsis (treatment-related), and malignant lung neoplasm

• The most common (≥15%) TEAEs are shown in **Figure 2A**; immune-mediated TEAEs are shown in **Figure 2B**

fety summary		
/o)	Safety population (N=63)	
EAE	63 (100)	
AE	44 (69.8)	
l ^a to any study drug	57 (90.5)	
Es	34 (54.0)	
g to discontinuation of any study drug	11 (17.5)	
g to discontinuation of SG	9 (14.3)	
g to discontinuation of pembro	8 (12.7)	
g to death	4 (6.3)	
ny study drug ^{a,b}	1 (1.6)	

Figure 2. Treatment-emergent adverse events. A) Any-grade TEAEs in ≥15% of patients.



^aGrade \geq 3 pneumonitis occurred in 2 patients (3.2%), and both events were grade 3