Enfortumab Vedotin in the Previously Treated Advanced Head and Neck Cancer Cohort of EV-202

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Objective

• To assess antitumor activity and safety of enfortumab vedotin in adults with locally advanced or metastatic head and neck cancer who have received prior treatment with platinum-based chemotherapy and PD-1/L1 inhibitors

Conclusions

- Enfortumab vedotin monotherapy demonstrated promising efficacy with clinically meaningful responses in patients with head and neck cancers whose disease had progressed on prior anticancer therapies
- A manageable safety profile was observed, consistent with that identified in previously studied populations with advanced urothelial carcinoma⁹
- No new safety signals were noted
- A new cohort 9 of the EV-202 study will investigate the effects of enfortumab vedotin in combination with pembrolizumab in head and neck squamous cell carcinoma (NCT04225117)

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Disclosures

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Background

- Globally, head and neck cancers accounted for an estimated 932,000 new cases and 467,000 deaths in 2020¹
- Most (≥90%) head and neck cancers are squamous cell carcinomas² Given the poor prognosis (median survival of <1 year) of recurrent
- or metastatic disease among individuals with head and neck squamous cell carcinoma,³ effective treatments are needed
- Nectin-4, a cell-adhesion molecule, is expressed in the majority of head and neck cancers^{4,5}
- Targeting Nectin-4 with an antibody–drug conjugate may provide a novel treatment approach
- Enfortumab vedotin is an antibody–drug conjugate comprised of a fully human monoclonal antibody directed against Nectin-4 attached to the microtubule disrupting agent, monomethyl auristatin E, by a protease-cleavable linker⁶
- Enfortumab vedotin is approved in more than 40 countries:
- As monotherapy in adults with locally advanced or metastatic urothelial carcinoma who previously received platinum-containing chemotherapy and a programmed cell death protein 1/ligand 1 (PD-1/L1) inhibitor or are ineligible for cisplatin-containing chemotherapy and have received 1 or more prior lines of therapy^{6,7}
- In combination with pembrolizumab for treatment of adults with locally advanced or metastatic urothelial carcinoma who are ineligible for cisplatin-containing therapy (accelerated approval in the United States)⁶

- As of April 11, 2022, a total of 46 patients in the head and neck cancer cohort received enfortumab vedotin and were included in the full analysis, response evaluable, and safety populations (**Table 1**)
- The majority of patients (n=45) had squamous cell carcinoma; 1 patient had adenocarcinoma of the oropharynx
- 1 patient had brain metastasis
- Median follow-up was 9.33 months

Table 1. Patient Demographics and Disease Characteristics		
Characteristic	Patients (N=46)	
Median age (range), y	65 (33–81)	
Male sex	40 (87)	
Primary tumor location		
Oral cavity	15 (32.6)	
Pharynx	14 (30.4)	
Larynx	10 (21.7)	
Other	7 (15.2)	
Human papillomavirus status		
Negative	6 (13.0)	
Positive	20 (43.5)	
Unknown	20 (43.5)	
≥3 prior lines of systemic therapy ^a	31 (67.4)	
Median time since initial diagnosis (range), ^b mo	28.7 (8.4–161.8)	
Type of prior systemic therapy		
PD-1/L1 inhibitor	46 (100)	
Platinum-based chemotherapy	46 (100)	
Taxane	34 (73.9)	
Cetuximab	26 (56.5)	
Progressive disease on prior systemic therapy		
PD-1/L1 inhibitor	20 (43.5)	
Platinum-based chemotherapy	8 (17.4)	
Taxane	8 (17.4)	
Cetuximab	10 (21.7)	
Nectin-4 immunohistochemistry H score (tissue), ^{c,d} median (range)	180 (20–300)	
PD-L1 immunohistochemistry (tissue) ^d		
Low (CPS <1)	6 (15.4)	
High (CPS ≥1)	33 (84.6)	
Missing	7	
Body mass index ≥25 kg/m ^{2e}	7 (15.9)	
Race		
White	27 (58.7)	
Asian	15 (32.6)	
Black or African American	1 (2.2)	
Not reported	3 (6.5)	

CPS, combined positive score; PD-1/L1, programmed cell death receptor 1/ligand 1

^aIncludes prior systemic therapy in the locally advanced or metastatic setting or prior platinum-based therapy for the head and neck cohort received in the neoadjuvant/adjuvant setting if disease progression occurred ≤6 mo of therapy completion. ^bTime from initial diagnosis to date of first dose. on=43 patients with evaluable tumor tissue. H-score range, 0–300. Assessed using validated immunohistochemical assays (Nectin-4, M22-321b41.1; PD-L1, 22C3 antibody clones). ^eData missing for 2 patients (n=44).

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- wherein the head and neck cohort would:

Figure 1. EV-202 Study Design^a

- Key Eligibility Criteria
- Measurable disease per RECIST v1.1 Histologically or cytologically confirmed head and neck cancer
- Primary tumor sites arising from oral cavity, orophary hypopharynx, and larynx; tumors arising from the nasopharynx and salivary and/or parotid gland tumors
- were excluded Locally advanced or metastatic head and neck
- ECOG PS 0–1

Data cutoff: April 11, 2022. CNS, central nervous system; DOR, duration of response; EAC, esophageal adenocarcinoma; GEJ, gastroesophageal adenocarcinoma; GEJ, gastroesophageal junction; IV, intravenous; NSCLC, non-small-cell lung cancer; PD-1/L1, programmed cell death protein 1/ligand 1; PFS, progression-free survival; ORR, objective response rate; OS, overall sment performed at screening/baseline and repeated every 8 wk (56 ± 7 d) from the first dose of study end, whichever comes first. Confirmatory imaging was required 4 wk (28 + 7-d window) after first response. After 1 y of study treatment, frequency of response assessments was reduced to every 12 wk (84 ± 7 d). Patients initially enrolled in cohort 6 were reallocated to cohort 7 or 8 based on tumor type/histology

Antitumor Activity

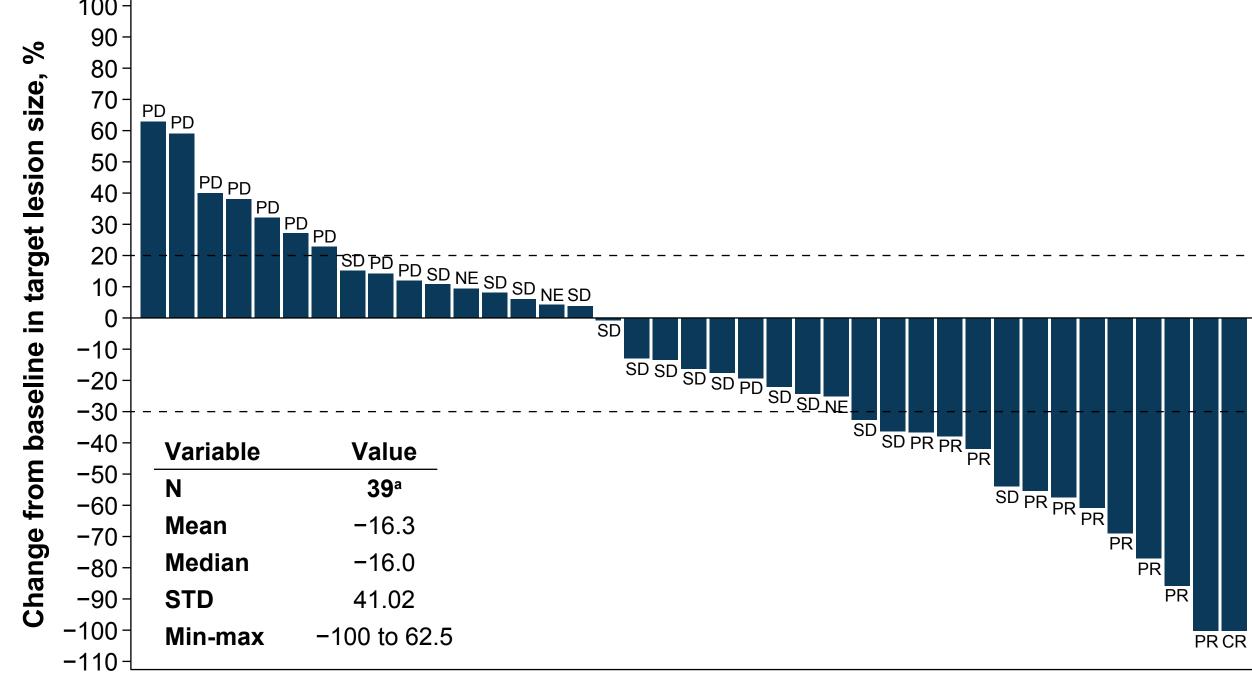
- (Table 2)

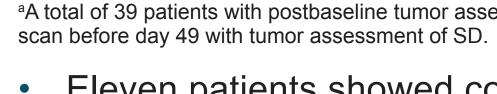
Table 2. Summary of Response by Investigator Assessment			
Parameter/Variable	Patients (N=46)		
Confirmed ORR ^a	11 (23.9)		
95% CI, ^b %	12.6–38.8		
Confirmed DCR ^c	26 (56.5)		
95% CI, ^b %	41.1–71.1		
BOR			
Confirmed CR	1 (2.2)		
Confirmed PR	10 (21.7)		
SD	15 (32.6)		
Progressive disease	10 (21.7)		
Not evaluable ^d	10 (21.7)		

Values are n (%) unless otherwise indicat BOR, best overall response: CR, complete response: DCR, disease control rate: DOR, duration of response: ORR, objective response te; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumours: SD. stable disease ^aPatients whose BOR is confirmed CR or PR according to RECIST v1.1. ^bUsing exact method based on binomial distribution (Clopper–Pearson). ^cPatients with BOR of confirmed CR, confirmed PR, or SD (≥7 wk). ^dSeven of these patients were considered not evaluable due to discontinuation from the study before a postbaseline response assessment was performed

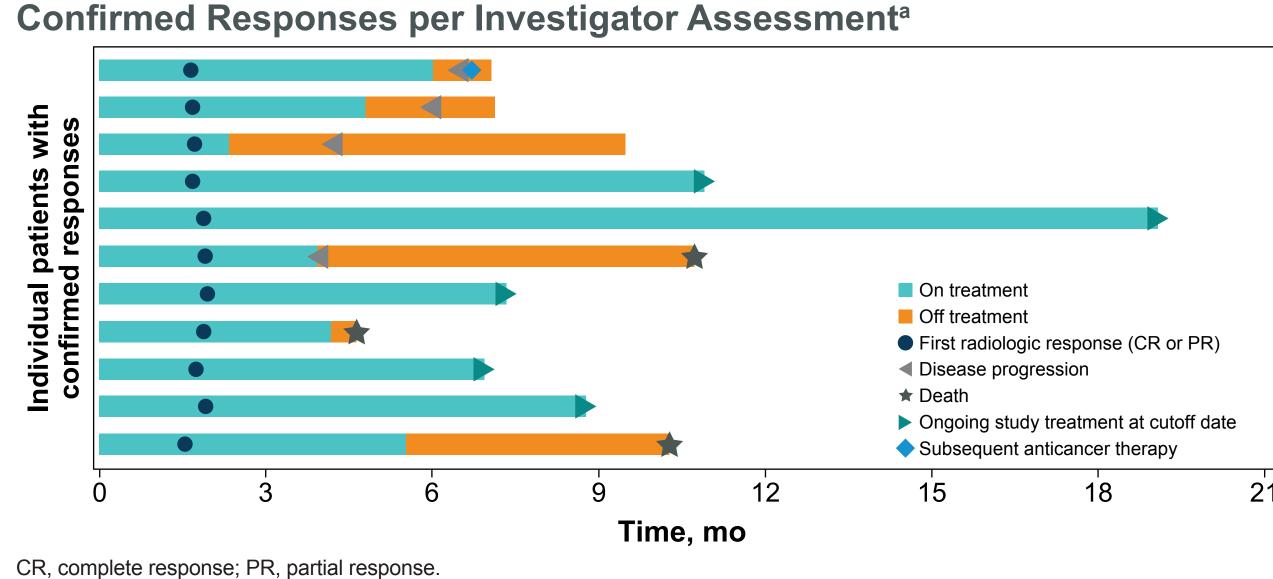
baseline (Figure 2)

Figure 2. Best Change From Baseline in Size of Target Lesion per **Investigator Assessment**



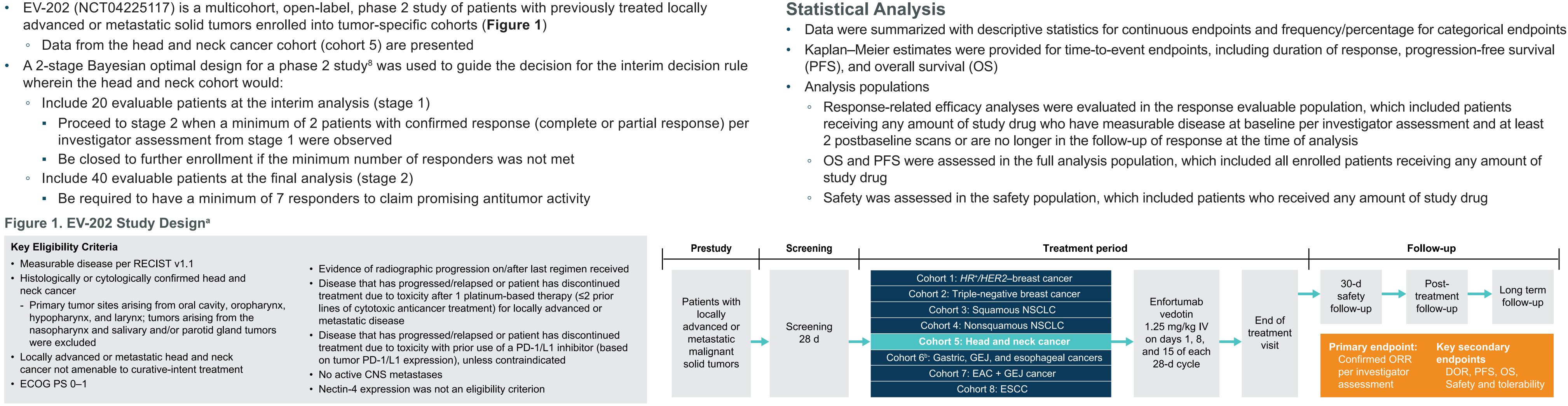


 Eleven patients showed confirmed responses, including 5 patients who were receiving study treatment at the data cutoff date (Figure 3)



^aConfirmed responses include complete response and partial response

Methods



Results

Objective response rate was 23.9%, and disease control rate was 56.5%

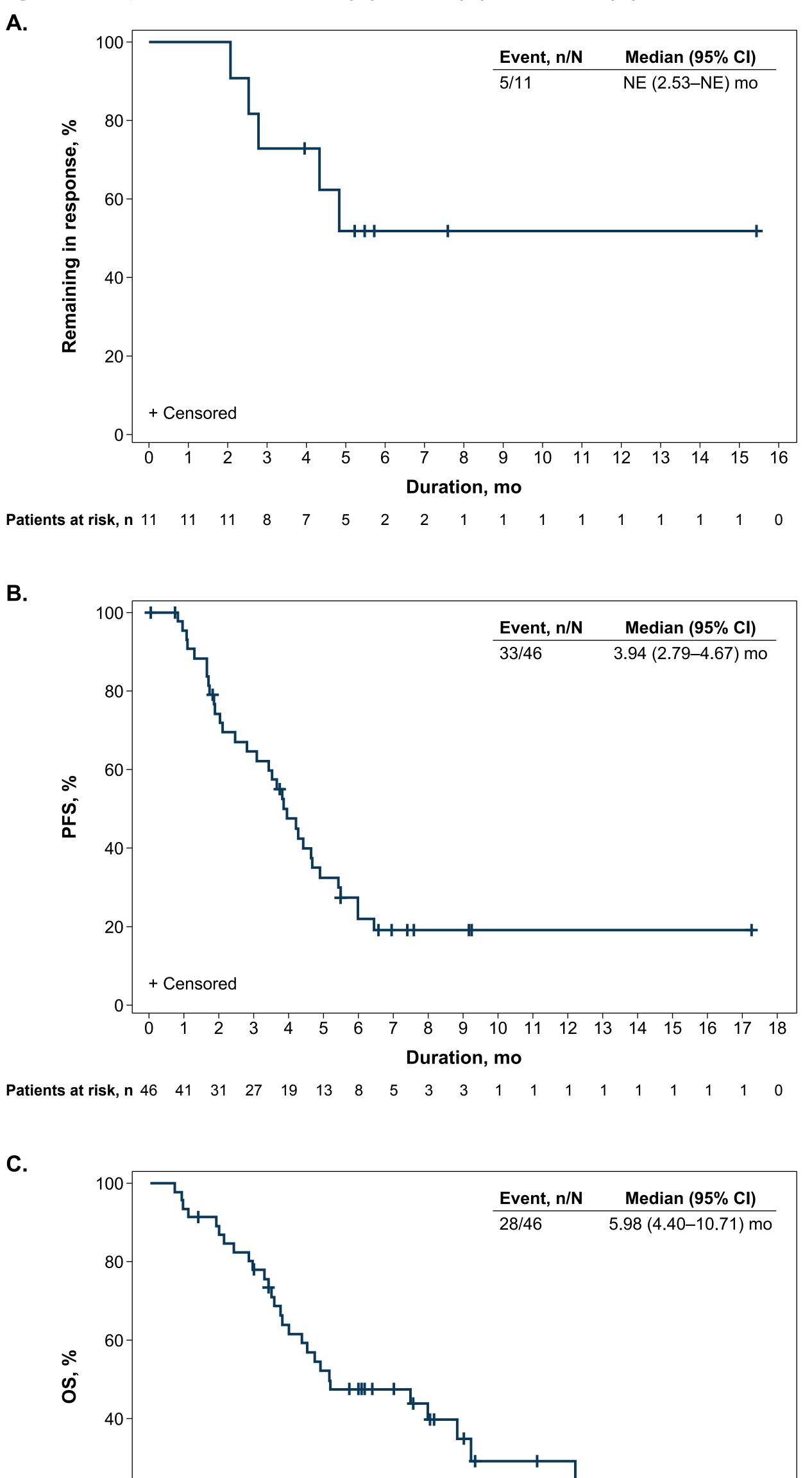
Median time to response was 1.74 months

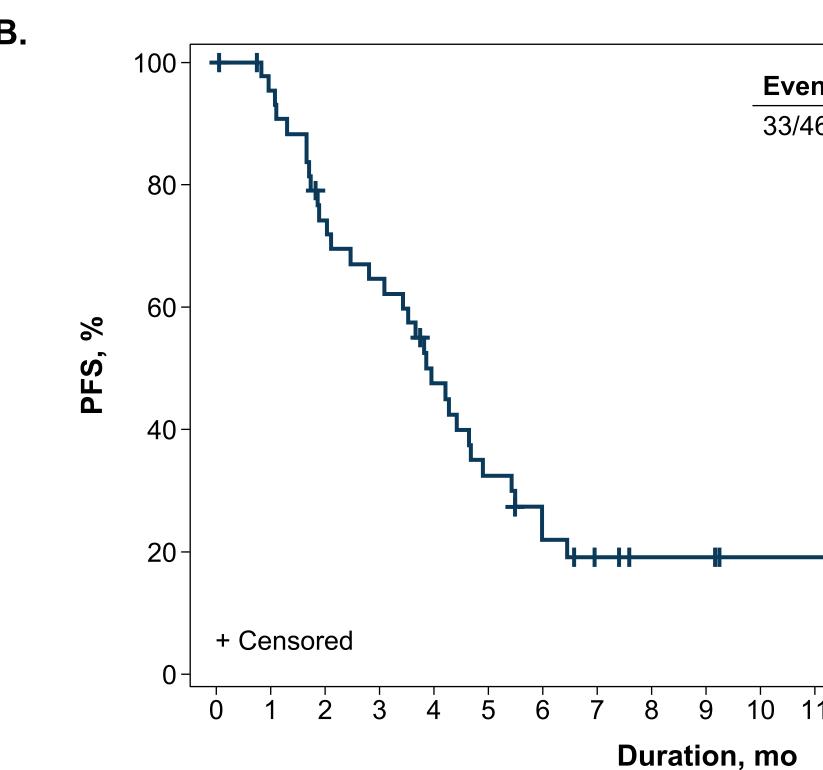
• Of 39 patients with postbaseline tumor assessments, 23 had tumor reduction from baseline and 14 had reductions of 30% or more from

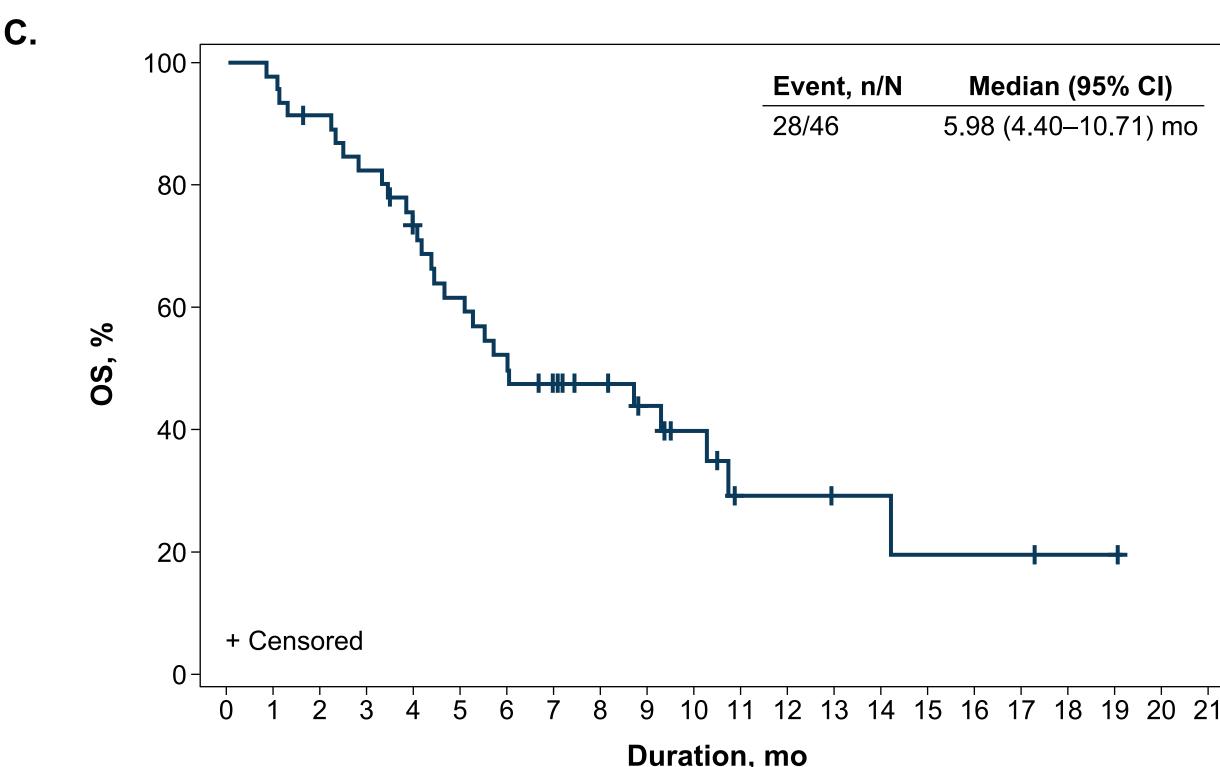
CR. complete response: NE. not evaluable: PD. progressive disease: PR. partial response: SD. stable disease: STD. standard deviation ^aA total of 39 patients with postbaseline tumor assessments were included. Three patients were considered NE due to a postbaseline

Figure 3. Time to Response and Duration of Response in Patients With

 Median duration of response per investigator assessment was not evaluable (Figure 4A), median PFS per investigator assessment was 3.94 months (Figure 4B), and median OS was 5.98 months (Figure 4C)







Patients at risk, n 46 45 41 37 31 26 21 18 14 11 8 4 4 3 3 2 2 2 1 1 0 0 DOR, duration of response; NE, not evaluable; OS, overall survival; PFS, progression-free survival. ^aPer investigator assessment.



Safety/Tolerability

- Overall, 45 patients experienced a treatment-emergent adverse event (TEAE) and 41 patients experienced a treatment-related adverse event (TRAE; Table 3)
- The most common TEAEs and TRAEs of any grade were fatigue (28.3%) and 26.1%, respectively), alopecia (both 28.3%), and peripheral sensory neuropathy (28.3% and 23.9%, respectively)
- Grade 3 or higher TEAEs occurring in more than 1 patient were anemia (n=3), decreased neutrophil count (n=2), and malignant neoplasm progression (disease progression of head and neck cancer; n=2); grade 3 or higher TRAEs occurring in more than 1 patient were anemia (n=2) and decreased neutrophil count (n=2)
- TRAEs led to dose reduction in 19.6% and withdrawal of treatment in 13.0% of patients

Table 3. Treatment-Related AEs in the Safety Population^a

	Cohort (N=46)	
AE, ^{b,c} n (%)	Any grade	Grade ≥3
Overall	41 (89.1)	16 (34.8)
Alopecia	13 (28.3)	NR
Fatigue	12 (26.1)	1 (2.2)
Peripheral sensory neuropathy	11 (23.9)	1 (2.2)
Dysgeusia	9 (19.6)	NR
Maculopapular rash	8 (17.4)	0
Decreased appetite	7 (15.2)	1 (2.2)
Diarrhea	7 (15.2)	0
Decreased neutrophil count	3 (6.5)	2 (4.3)
Anemia	6 (13.0)	2 (4.3)
AE, adverse event; NR, not reported.		

^aAll patients who were enrolled and received the study treatment were included in the safety population. ^bAny-grade AE occurring in ≥15% of patients or grade ≥3 AE occurring in >1 patient. AEs are reported based on Preferred Term.

• The most common TRAEs of special interest for enfortumab vedotin were skin reactions and peripheral neuropathy (**Table 4**)

Table 4. Treatment-Related AEs of Interest for Enfortumab Vedotin

	Cohort (N=46)	
AE,ª n (%)	Any grade	Grade ≥3
Skin reaction ^b	21 (45.7)	1 (2.2)
Peripheral neuropathy	15 (32.6)	2 (4.3)
Hyperglycemia	2 (4.3)	0
Ocular disorder		
Dry eye	3 (6.5)	0
Corneal disorder	0	0
Blurred vision	0	0
Infusion-related reaction	0	0

AE, adverse event; MedDRA, Medical Dictionary for Regulatory Activities ^aAEs are composite terms and reported by standard MedDRA guery or sponsor-specific guery/customized medical guery. Includes rash or severe cutaneous adverse reaction.