

Background

- Cutaneous squamous cell carcinoma (CSCC) is the second most common cutaneous malignancy and its incidence continues to rise^{1,2}
 - Patients with locally advanced or metastatic disease have a poor prognosis, as they are largely unresponsive to curative surgery or radiotherapy³
 - Cemiplimab, a monoclonal anti-PD-1 antibody, has recently been approved by the FDA and EMA for this patient cohort based on single-arm phase 2 studies⁴
 - Real-world data on clinical outcome and tolerability is still scarce⁵
- Aim:** To examine clinical outcome and tolerability of cemiplimab in patients with advanced CSCC

Patients & Methods

- Retrospective cohort study from 3 sites in the Netherlands
- Patients with unresectable locoregional or metastatic CSCC were included
- Treatment with flatdose cemiplimab 350mg Q3W between November 2018 until November 2020
- Minimum follow-up of 3 months
- Data cut-off was November 01, 2020
- Toxicity was graded according to CTCAE v4.03
- Response evaluation was done by CT, MRI, PET-CT or clinical assessment where imaging was not deemed reliable/feasible
- Progression-free survival (PFS) and overall survival (OS) were estimated using the Kaplan-Meier method

References

¹Rogers HW, et al. Arch Dermatol. 2010; ²Tokez S, et al. AMA Dermatol. 2020; ³Lee A, et al. Drugs 2020 ; ⁴Migden MR, et al. N Engl J Med 2018; ⁵Migden MR, et al. Future Oncol 2020.

Author information

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Table 1. Demographics and baseline characteristics (n=66)	N (%)
Age, years	
Median (range)	75 (30-93)
> 65	55 (83.3)
> 80	19 (28.8)
Gender	
Male	50 (75.8)
Female	16 (24.2)
ECOG performance status score	
0-1	58 (87.9)
2-3	8 (12.1)
Comorbidities*	
Total	58 (87.9)
Cardiovascular	45 (68.2)
Pulmonary	5 (7.56)
Renal insufficiency	6 (9.1)
Organ/stemcell transplantation	3 (4.5)
2 nd (hematologic) malignancy	24 (36.4)
Inflammatory disorders/AI	8 (12.1)
Other	16 (24.2)
Site primary CSCC	
Head/neck	52 (78.8)
Extremity	9 (13.6)
Trunk	3 (4.5)
Unknown	2 (3.0)
Disease stage	
Locally advanced	41 (62.1)
Distant metastases	25 (37.9)
Histological differentiation	
Well differentiated	10 (15.2)
Moderately differentiated	25 (37.9)
Poorly differentiated	16 (24.2)
Undifferentiated	1 (1.5)
Unknown	14 (21.2)
Prior systemic therapy	7 (10.6)
LDH	
≤ULN	53 (80.3)
>ULN	12 (18.2)
Unknown	1 (1.5)

*Patients could have had more than one type of comorbidity. AI, autoimmune; ECOG, Eastern Cooperative Oncology Group performance score; LDH, lactatedehydrogenase; ULN, upper limit of normal.

- In total, 66 patients with unresectable locoregional (41 (62.1%) patients) or metastatic (25 (37.9%) patients) CSCC were identified (Table 1)
- The most commonly reported adverse event (AE) was fatigue, occurring in 48.5% of patients (Table 2)
- 2 patients experienced grade 4 AE's; 1 patient with pneumonitis and 1 patient with pre-existing chronic lymphatic leukemia presented with an immune-related agranulocytosis
- In 57 (86.4%) of patients, response evaluation was performed by imaging with CT, MRI or PET-CT
- With a median follow-up of 11.7 months (95% CI 8.4-15.1 months), median PFS and median OS were not reached (Figure 1 and 2)
- An objective clinical response was seen in 33 (50%) patients, of whom 9 (13.6%) reached CR and 24 (36.3%) PR (Figure 3 and 4)
- A median of 6.5 doses of cemiplimab (range 1-31 doses) were administered
- In 41 (62.1%) patients treatment was discontinued, in 43.9% of patients due to disease progression
- In 8 (19.5%) patients with ongoing response, treatment was stopped after a median of 11.5 months (range 2.9-15.2 months)

Table 2. Adverse Events*(n=66)	N (%)
Any grade	59 (89.4)
Grade 1-2	47 (71.2)
Grade 3-4	12 (18.2)
Led to discontinuation of treatment	
Total	5 (7.5)
Hepatitis grade 3	2 (3.0)
Pruritus grade 2	1 (1.5)
Hematologic grade 3	1 (1.5)
Pneumonitis grade 4	1 (1.5)
Most common AE's (all grades)†	
Fatigue	32 (48.5)
Pruritus	20 (30.3)
AF increased	17 (25.8)
AST increased	14 (21.2)
GGT increased	14 (21.2)
Most common grade 3-4 AE's‡	
ALT increased	3 (4.5)
AST increased	3 (4.5)
GGT increased	2 (3.0)
Rash	2 (3.0)

*Treatment related adverse events (AE). †Occurring in >20% of patients. ‡Occurring in ≥3% of patients. Patients could have experienced more than one AE. AF, Alkaline phosphatase; ALT, alanine aminotransferase; AST, aspartate aminotransferase; GGT, gamma-glutamyltransferase.

Results

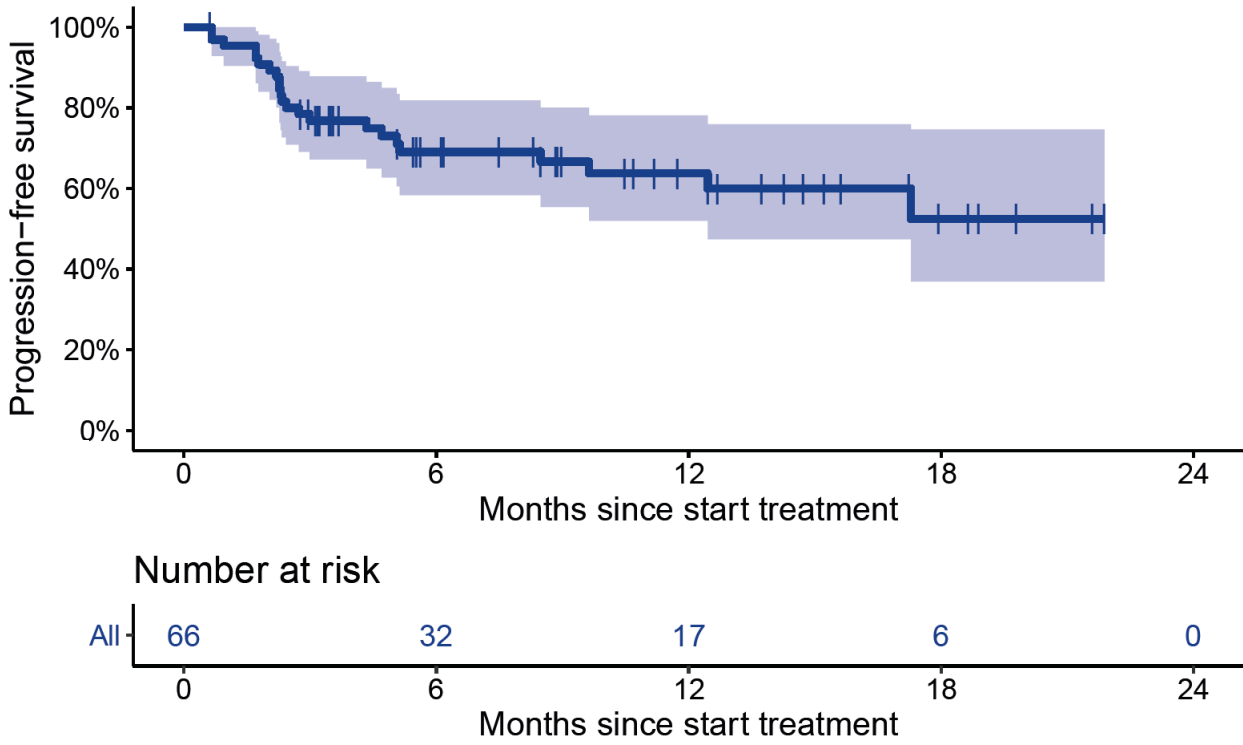


Fig 1. Progression-free survival (PFS). PFS was calculated as time between date of first cemiplimab dose and time of PD or date of death due to any cause.

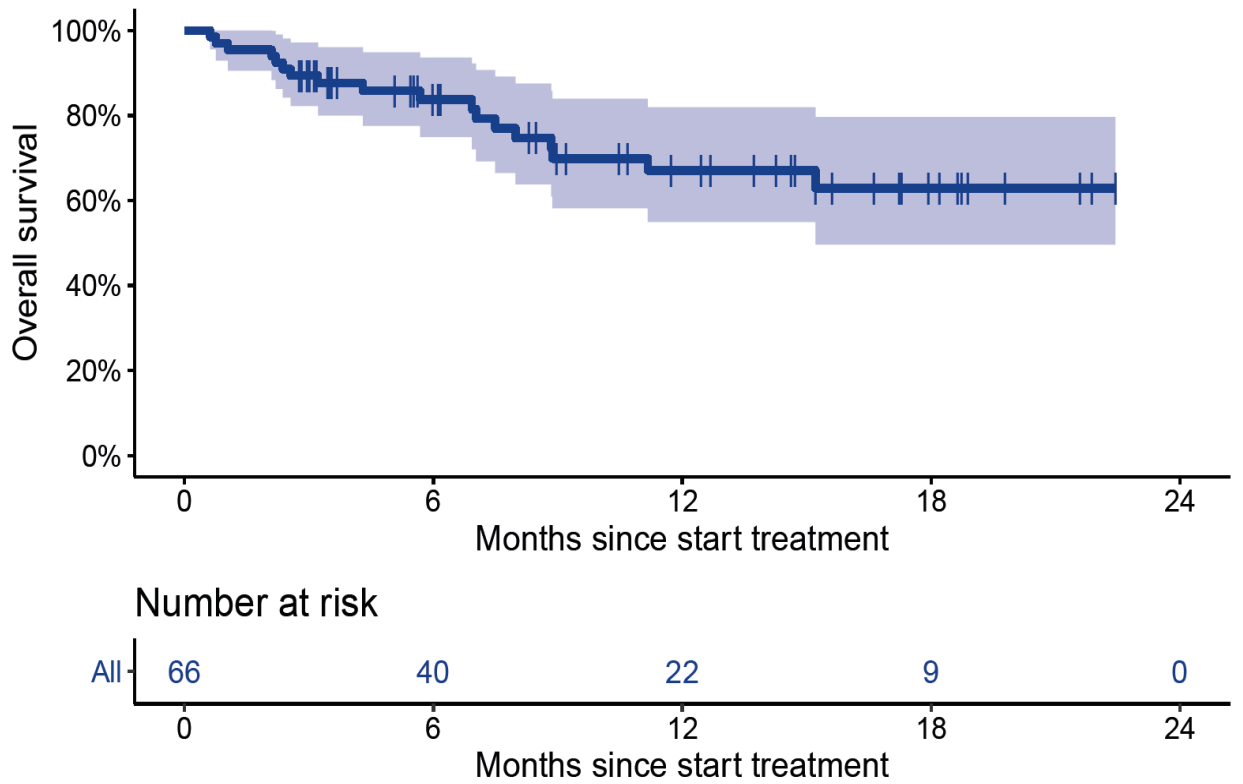


Fig 2. Overall survival (OS). OS was calculated as the time between the date of first cemiplimab dose and date of death due to any cause.

CLINICAL CASE PRESENTATION

Prior to cemiplimab treatment One year after treatment

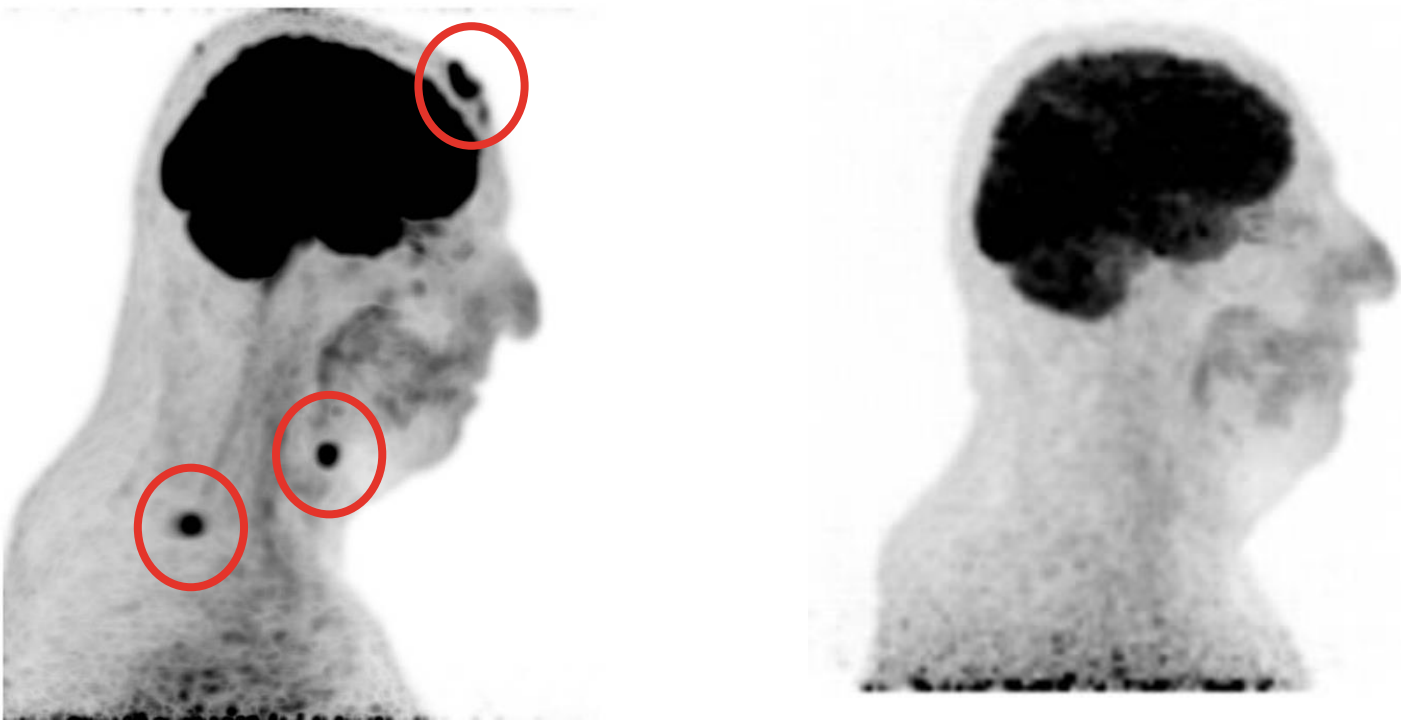


Fig 3. Example of complete radiologic response after one year of treatment (18 cycles of cemiplimab) in a 72-year old male patient with metastatic CSCC (frontal subcutaneous lesion of the scalp with damage to the tabula externa and interna and right-sided lymph node metastases in level IB and V).

Prior to cemiplimab treatment After 2 cycles of cemiplimab



Fig 4. Example of a partial clinical response after 2 cycles of cemiplimab in a 86-year old female patient (ECOG performance status 3) with locally advanced stage III (T3N0M0), poorly differentiated CSCC. Surgical resection was not deemed possible due to the extent of surgery and risks of anesthesia.

Conclusions

- In this real-world cohort of patients with advanced CSCC, cemiplimab demonstrated to be well-tolerated
- Treatment was feasible even in elderly patients with severe comorbidities
- An objective clinical response was observed in 50% of patients, which is comparable to the results of earlier prospective clinical trials
- Treatment with cemiplimab should be considered for the treatment of patients with locally advanced or metastatic CSCC

