# **Demographics, Prior Therapies and Reasons for Cemiplimab Treatment: Prospective** <u>CemiplimAb-rwlc Survivorship and Epidemiology (C.A.S.E.) Study in Patients with</u> **Advanced Cutaneous Squamous Cell Carcinoma**

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### Background

- · Cutaneous squamous cell carcinoma (CSCC) is one of the most commonly diagnosed cancers worldwide and incidence rates are increasing.1,2
- Most early cases are typically treated with curative surgery.<sup>3</sup> However, a small percentage of patients develop locally advanced CSCC, that is not amenable to curative surgery or curative radiotherapy (RT).4
- Until recently, patients with advanced CSCC, who were not candidates for curative surgery or radiation, had poor prognosis.<sup>5,6</sup>
- Cemiplimab is a high-affinity, monoclonal antibody that blocks programmed cell death (PD)-1 binding to PD-ligand (L)1 and PD-L2 and has demonstrated substantial antitumour activity in patients with advanced CSCC.4, 7-9
- Cemiplimab (cemiplimab-rwlc in the US) is approved by the European Medicines Agency and is the first PD-1 inhibitor approved by the US Food and Drug Administration for the treatment of patients with locally advanced or metastatic CSCC who are not candidates for curative surgery or curative radiation.<sup>10,11</sup>
- · Limited data exist on the clinical characteristics, management, disease progression and survivorship of patients with advanced CSCC in real-world clinical practice.

## **Objectives**

- · Patients receiving cemiplimab in the real world will likely have their treatment initiated at various timepoints and at different stages of their disease evolution
- CemiplimAb-rwlc Survivorship and Epidemiology (C.A.S.E.) study aims to evaluate the effectiveness, safety, disease evolution, survivorship and quality of life (QoL) in patients with advanced CSCC treated with cemiplimab in a real-world setting.
- Here, we describe baseline demographics for the first set of patients currently enrolled in the CemiplimAb-rwlc Survivorship and Epidemiology (C.A.S.E.) study.

### Methods

- C.A.S.E. is a prospective, multicentre, longitudinal study evaluating the clinical activity, safety, disease evolution, survivorship and QoL in adult patients with advanced CSCC who initiate treatment with cemiplimab, with the primary data collection in real-world clinical settings.
- · Key endpoints include effectiveness of cemiplimab treatment, safety, patient-reported outcomes, treatment adherence and health resource utilisation.
- Patient-reported outcomes collected: The European Organisation for Research and Treatment of Cancer (EORTC) QoL guestionnaire (QLQ-C30), EORTC QLQ-ELD14, Skin Care Index, Pain Numerical Rating Scale and Sun Exposure Behaviour Inventory.
- · Demographic and baseline data from the first set of patients enrolled in the C.A.S.E. study were analysed and are presented here.

### Results

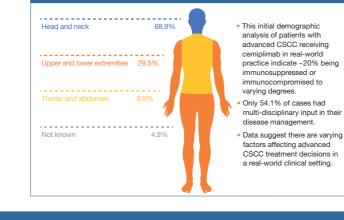
#### Baseline demographics and disease characteristics

• As of 31 January 2020, 61 patients were enrolled (median age: 78.0 years [interquartile range: 70-86]); 73.8% were male and 96.7% were Caucasian (Table 1).

n (%)	Advanced CSC (N=61)
Median age, years (range)	78.0 (50–98)
<65 years	9 (14.8)
≥65 – <75 years	16 (26.2)
≥75 – <85 years	19 (31.2)
>85 years	17 (27.9)
Male	45 (73.8)
Race, White	59 (96.7)
ECOG performance status	
0	14 (23.0)
1	35 (57.4)
2	4 (6.6)
Locally advanced CSCC	34 (55.7)
Metastatic CSCC	27 (44.3)

- · Fifty-six percent of the patients had locally advanced CSCC and 44.3% had metastatic CSCC (Table 1).
- Approximately 20% of patients were immunocompromised or immunosuppressed, including 4.9% who had solid organ transplant (Table 2)
- · The most common current CSCC tumour location was head and neck (68.9%) (Figure 1).

#### Figure 1. Summary of advanced CSCC in patients in real-world practice



· The majority of patients, for whom staging tool data were provided, were classified using the American Joint Committee on Cancer Staging Manual, 8th edition. The most common cancer stages at initial diagnosis were T3 and T4a (4.9% each).

#### **Baseline tumour characteristics**

- CSCC tumours were classified histologically as well differentiated in 23.0% of patients, moderately differentiated in 37.7%, poorly differentiated in 19.7% and unknown in 19.7% (Table 2).
- Tumours in 21.3% of patients had perineural invasion and 8.2% had histological heterogeneity.

#### Prior therapies

 Most patients had received prior CSCC therapy, 75.4% had prior CSCC-related surgery and 41.0% received CSCC-related RT (Table 3).

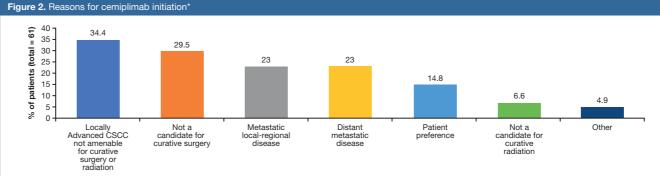
#### Multidisciplinary management and factors affecting cemiplimab treatment decisions

- Fifty-four percent of patients had multidisciplinary input in their advanced CSCC management.
- · Reasons for cemiplimab treatment are shown in Figure 2.

### Table 2. Patient and tumour characteristics

n (%)	Advanced CSCC (N=61)
Immunocompromised or immunosuppressed*	13 (21.3)
Solid organ transplant recipient	3 (4.9)
Extensive actinic keratosis	20 (32.8)
Perineural invasion	13 (21.3)
Histological differentiation	
Moderately differentiated	23 (37.7)
Well differentiated	14 (23.0)
Poorly differentiated	12 (19.7)
Unknown	12 (19.7)

ansplant, allogeneic bone marrow transplant, or who have a history of treated or active hematologic munosuppression refers to patients with chronic steroid use or who use chronic immunosuppressi



\*More than one reason for cemiplimab initiation could be given for a single patier

n (%)
Any prior CSCC surgery
Number of prior CSCC-
1
2
3
>3
Any prior RT
Number of prior CSCC-
1
2
≥3
Without any prior CSCC
Any prior CSCC system
Prior systemic therapy
Metastatic disease
Adjuvant
Chemotherapy with o
Neoadjuvant
Number of prior CSCC
1
2
≥3
11 first lines OL second line

Table 3. Prior treatment

(0/)

11 first-line 21 second-line

Advanced CSCC (N=61)
46 (75.4)
17 (27.9)
14 (23.0)
6 (9.8)
9 (14.8)
25 (41.0)
18 (29.5)
6 (9.8)
1 (1.6)
38 (62.3)
23 (37.7)
12 (19.7)
7 (11.5)
2 (3.3)
2 (3.3)
15 (24.6)
5 (8.2)
3 (4.9)

### Conclusions



This initial demographic analysis of patients with advanced CSCC receiving cemiplimab in real-world practice indicates that most patients were male and elderly, with ~20% being immunosuppressed or immunocompromised to varying degrees.



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Only 54.1% of cases had multidisciplinary input in their disease management.

These data suggest that there are varying factors affecting advanced CSCC treatment decisions in a real-world clinical setting.



Future analyses will provide additional outcome measures from C.A.S.E. including patient experience, safety outcomes and effectiveness of cemiplimab in the real-world setting.

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