



What's on the horizon to tackle unmet needs in recurrent/metastatic SCCHN?

Fact sheet for the treatment of SCCHN

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Unmet treatment needs for patients with R/M SCCHN



The current standard of care for patients with R/M SCCHN typically comprises immunotherapy and chemotherapy, as monotherapy or in combination, and cetuximab^{1,2}



As only a minority of patients will respond to ICIs, there is an urgent need to improve antitumour immune responses and expand the treatment options available to patients with R/M SCCHN³

Future treatment directions: Investigational immunotherapy-based strategies

Combination

Study

Setting

Key efficacy results

Key safety results

ICIs plus ChT	
Durvalumab + carboplatin + paclitaxel ⁴	Pembrolizumab + carboplatin + paclitaxel ⁵
Phase II FRAIL-IMMUNE	Phase IV KEYNOTE-B10
First-line treatment in frail pts with R/M SCCHN not amenable to cisplatin-based ChT N=64	First-line treatment of pts with previously untreated R/M SCCHN N=92
<ul style="list-style-type: none"> mOS: 18 months 24-month OS: 45% mPFS: 7.0 months ORR: 71% mDoR: 5.9 months 	<ul style="list-style-type: none"> mOS: 12.1 months ⁿ⁼⁸² 12-month OS: 58% mPFS: 5.6 months ORR: 43% mDoR: 5.5 months
Grade ≥3 AEs: 20.3%	Grade ≥3 AEs: 71%

PD-1/PD-L1 inhibitors plus carboplatin and paclitaxel demonstrated antitumour activity and tolerable toxicity profiles^{4,5}

ICIs plus cetuximab			
Pembrolizumab + cetuximab ⁶	Avelumab + cetuximab ⁷	Nivolumab + cetuximab ⁸	Durvalumab + cetuximab ⁹
Phase II NCT03082534	Phase II NCT03494322	Phase I/II NCT03370276	Phase II NCT03370276
Platinum-resistant or platinum-ineligible pts with R/M SCCHN N=33	Pts with R/M SCCHN, no previous treatment with cetuximab N=16	Second-line and beyond treatment of pts with R/M SCCHN N=45	Pts with R/M SCCHN N=35
<ul style="list-style-type: none"> ORR: 45% 	<ul style="list-style-type: none"> ORR: 50% ⁿ⁼¹⁰ <ul style="list-style-type: none"> CR: 20% PR: 30% 	<ul style="list-style-type: none"> 12-month OS: 44% 12-month PFS: 19% 	<ul style="list-style-type: none"> mPFS: 5.8 months mOS: 9.6 months ORR: 39% (13/33) mDoR: 8.6 months
Serious TRAEs: 15%	Grade 3 AEs: four pts	Grade 4 TRAE: one patient	16 grade 3 TRAEs

Multiple studies have demonstrated consistent and promising results with PD-1/PD-L1 inhibitors plus cetuximab¹⁰



Direct comparisons between trials should not be made due to differences in trial design.

Future treatment directions: Novel immunotherapy-based strategies

Several novel immunotherapy-based strategies have reported clinical activity for R/M SCCHN¹¹⁻¹⁹

	ICI plus LAG3 inhibitor	Triplet combinations		ICI plus bispecific antibody
Combination	Eftilagimod alpha + pembrolizumab¹¹	Durvalumab + monalizumab + cetuximab ¹²	Avelumab + palbociclib + cetuximab ¹³	BCA101 + pembrolizumab¹⁴
Study	TACTI-002 Phase II	NCT02643550 Phase II	NCT03498378 Phase I	NCT04429542 ¹⁵ Phase I
Setting	Second-line eftilagimod alpha + pembrolizumab (n=37)	First line n=40	First line N=12	First line N=33
Key efficacy results	<ul style="list-style-type: none"> • ORR: 30% • mPFS: 2.1 months • mOS: 8.7 months 	<ul style="list-style-type: none"> • ORR: 33% • mPFS: 6.9 months • 12-month OS: 59% 	<ul style="list-style-type: none"> • ORR: 41.7% • mPFS: 6.5 months • mOS: NR • DCR: 75% 	<ul style="list-style-type: none"> • ORR: 48% <ul style="list-style-type: none"> ○ ORR (HPV-): 65% (13/20) ○ ORR (CPS 1-19): 50% (5/10) • mPFS (HPV-): NR
Key safety results	Most common AEs: Hypothyroidism (21%) Asthenia (21%) Cough (18%)	Grade 3 or 4 TRAEs: 48%	Any grade TRAEs: 100% Grade ≥3 TRAEs: 75%	Grade ≥3 TRAEs: 27%

	ICI plus TKI			
Combination	Cabozantinib + atezolizumab¹⁶	Anlotinb + pembrolizumab¹⁷	Afatinib + pembrolizumab¹⁸	Lenvatinib + pembrolizumab¹⁹
Study	COSMIC-021 Phase Ib	NCT04999800 Phase II	ALPHA study Phase II	LEAP-010 Phase III
Treatment	Second- or third-line cabozantinib + atezolizumab (N=30)	First-line Anlotinb + pembrolizumab (N=15)	Second-line Afatinib + pembrolizumab (n=29)	First-line Lenvatinib + pembrolizumab (n=256) or placebo + pembrolizumab (n=255)
Key efficacy results	<ul style="list-style-type: none"> • ORR: 17% • mPFS: 2.9 months • mOS: 9.2 months 	<ul style="list-style-type: none"> • ORR: 46.7% • mPFS: NR • mOS: NR 	<ul style="list-style-type: none"> • mPFS: 4.1 months • mOS: 8.9 months 	<ul style="list-style-type: none"> • ORR: 46.1% vs 25.4%* • mPFS: 6.2 vs 2.8 months* • mOS: 15.0 vs 17.9 months*
Key safety results	Most common TRAEs: Fatigue (30%) Stomatitis (30%) Hypertension (27%)	Most common TRAEs: Hypertension (25%)	Most common TRAEs: Skin rash (75.9%) Diarrhoea (58.9%) Paronychia (44.8%)	Grade ≥3 TRAEs (IA2): 61.4% vs 17.8%

CTLA-4

Multiple studies did not meet their primary end point (OS/ORR) when assessing the efficacy of CTLA-4 inhibition in combination with anti-PD-1/PD-L1 monoclonal antibodies compared to SoC regimens²⁰⁻²³

Direct comparisons between trials should not be made due to differences in trial design.

*Per the prespecified analysis plan, ORR and PFS are reported from the first interim analysis (IA1) and OS is reported from second interim analysis (IA2). Data cutoff dates were July 6, 2022 for IA1 and May 30, 2023 for IA2.

Future treatment directions: Targeted therapies

	Targeting VEGF				ADCs		
Treatment	Bevacizumab				Tisotumab vedotin ²⁹	Enfortumab vedotin ³⁰	MRG003 ³¹
Study	Phase II ²⁴ Previously untreated R/M SCCHN N=40	Phase III (E1305) ²⁵ Chemotherapy naive R/M SCCHN N=403	Phase II ²⁶ R/M SCCHN with no more than one prior treatment N=46	Phase II ²⁷ n=48	Phase II innovaTV 207	Phase II EV-202	Phase II ³² NCT04868162
Setting	Pemetrexed + bevacizumab	Platinum doublet ChT + bevacizumab vs platinum doublet ChT	Cetuximab + bevacizumab	Erlotinib + bevacizumab	Pts with R/M SCCHN who have received prior lines of therapy including platinum therapy (93% had received an ICI) (n=15)	Pts with Ia/m HNC who have previously received one platinum-based therapy (n=46)	Pts with R/M SCCHN who had progressed on at least one line of standard therapy (N=67)
Key efficacy results	<ul style="list-style-type: none"> mOS: 11.3 months ORR: 30% 	<ul style="list-style-type: none"> mOS: 12.6 vs 11.0 months mPFS: 6.0 vs 4.3 months ORR: 35.5% vs 24.5% 	<ul style="list-style-type: none"> mOS: 7.5 months mPFS: 2.8 months ORR: 16% 	<ul style="list-style-type: none"> mOS: 7.1 months mPFS: 4.1 months 	<ul style="list-style-type: none"> ORR: 40% 	<ul style="list-style-type: none"> ORR: 23.9% mPFS: 3.94 months mOS: 5.98 months 	<ul style="list-style-type: none"> ORR (EGFR+): 30.6% ORR:* 43% mPFS: 4.2 months mOS: 11.3 months
Key safety results	Grade 3 to 5 bleeding events: 15%	Treatment-related grade 3 to 5 bleeding events: 6.7% vs 0.5%	Grade 3 or 4 AE: <10%	Most common AE of any grade: <ul style="list-style-type: none"> Rash and diarrhoea 	TRAEs: 13 pts <ul style="list-style-type: none"> Asthenia (n=7) PSN (n=7) Vomiting (n=5) 	TRAEs of special interest: <ul style="list-style-type: none"> Skin reactions (45.7%) Peripheral neuropathy (32.6%) Hyperglycaemia (4.3%) 	Common TRAEs: <ul style="list-style-type: none"> Constipation (25.8%) Pruritus (24.2%) Anaemia (22.6%)

The VEGF pathway is a promising therapeutic target in SCCHN; however, further studies should focus on minimizing unwanted adverse effects, especially bleeding events²⁸

ADCs have shown promising efficacy and manageable safety profiles in various phase II trials for the treatment of R/M SCCHN²⁹⁻³¹

*In second- and third-line patients who had previously failed prior platinum and PD-1/PD-L1 inhibitor and who had received 2.3 mg/kg dose of MRG003. Direct comparisons between trials should not be made due to differences in trial design.

Future treatment directions: Targeted therapies

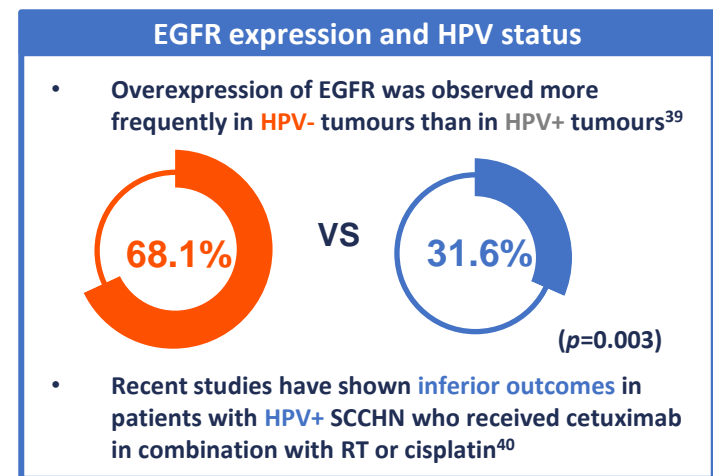
Treatment	HRAS inhibitor
	Tipifarnib ³³
Study	Phase II NCT03719690 N=59
Key efficacy results	<ul style="list-style-type: none"> • ORR: 30% (n=50; investigator assessment) • mOS: 7.0 months
Key safety results	Grade ≥3 TRAEs: 56% <ul style="list-style-type: none"> • Neutropenia (24%) • Anaemia (20%) • Leukopenia (14%) • Febrile neutropenia (7%)

PI3K inhibition	
Buparlisib + cetuximab ³⁴	Buparlisib + paclitaxel vs placebo + paclitaxel ³⁵
Phase Ib NCT01816984 (N=12)	Phase II BERIL-1 (n=158)
<ul style="list-style-type: none"> • PR: 1 patient n=10 • SD: 4 pts 	<ul style="list-style-type: none"> • ORR: 39% vs 14% • mOS: 10.0 vs 6.5 months
Grade ≥3 AEs: 10 pts	Grade 3 or 4 AEs: <ul style="list-style-type: none"> • Hyperglycaemia (22% vs 3%) • Anaemia (18% vs 12%) • Neutropenia (17% vs 5%) • Fatigue (8% vs 10%)

Tipifarnib showed antitumor activity for patients with mutated *HRAS* SCCHN post-IO and as later-line therapy³³

Clinical evaluation of PI3K inhibitors in SCCHN is mainly in early phase clinical trials²⁸

EGFR inhibition	
Cetuximab	<ul style="list-style-type: none"> • The only EGFR-targeted therapy currently approved in Europe, the USA and Japan for SCCHN³⁶⁻³⁸
Other EGFR mAbs/inhibitors of interest in SCCHN include panitumumab, gefitinib, afatinib, dacomitinib, nimotuzumab, lapatinib and poziotinib ²⁸	
However, only 5% of HNC patients have EGFR alterations, which may contribute to the limited effectiveness of EGFR TKIs ²⁸	



Abbreviations and references

Abbreviations

ADC, antibody–drug conjugate; AE, adverse event; ChT, chemotherapy; CPS, combined positive score; CR, complete response; CTLA-4, cytotoxic T-lymphocyte associated protein 4; DCR, disease control rate; DoR, duration of response; EGFR, epidermal growth factor receptor; HNC, head and neck cancer; HPV, human papillomavirus; HRAS, Harvey rat sarcoma viral oncogene homolog; ICI, immune checkpoint inhibitor; LAG3, lymphocyte activation gene 3; la/m, locally advanced or metastatic; mAb, monoclonal antibody; m, median; NR, not reached; ORR, objective response rate; OS, overall survival; PD-1, programmed cell death protein 1; PD-L1, programmed death-ligand 1; PFS, progression-free survival; PI3K, phosphatidylinositol 3-kinase; PR, partial response; PSN, peripheral sensory neuropathy; pts, patients; R/M, recurrent or metastatic; RT, radiotherapy; SCCHN, squamous cell carcinoma of the head and neck; SD, stable disease; SoC, standard of care; TKI, tyrosine kinase inhibitor; TRAE, treatment-related AE; VEGF, vascular endothelial growth factor.

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