Combination of monalizumab and cetuximab in patients with recurrent or metastatic head and neck squamous cell cancer previously treated with platinum-based chemotherapy and PD-(L)1 inhibitors: a phase II expansion study

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- is a first-in-class humanized IgG4 checkpoint inhibitor targeting the NKG2A receptor, which is expressed on CD8+ T cells and NK cells.
- Cetuximab inhibits oncogenic EGFR signaling and binds to CD16/FcyRIII to promote ADCC.
- NK cell stimulation with monalizumab may enhance ADCC induced by cetuximab and thereby provide greater antitumor activity than cetuximab alone.¹⁻⁵
- Blocking NKG2A and triggering CD16 constitutes a novel form of dual immunotherapy that includes blockade of a novel immune checkpoint.
- In a Phase 1 study, the combination of monalizumab and cetuximab was well tolerated. In an initial expansion cohort (cohort 1) of 40 patients (pts) who had progressed after platinum-based therapy, we reported an overall response rate (ORR) of 27.5%, a 4.5 month median PFS and an 8.5 month median OS. In the subset of patients (n=18) previously treated with PD-(L)1 inhibitors (IO), corresponding efficacy results were 17%, 5.1, and 14.1 months, respectively (ESMO 20199). Here, we present data from a second expansion cohort (cohort 2, n=40) conducted specifically in the post-IO (and post-

Study Design

Multicenter, single arm, phase Ib-II trial to evaluate the combination of monalizumab and cetuximab in patients with recurrent and/or metastatic squamous cell carcinoma of the head and neck (R/M SCCHN) (NCT02643550). Dose escalation and cohort 1 were previously presented.⁸⁻⁹ We report here expansion

Key eligibility criteria in cohort 2

 R/M SCCHN histologically confirmed, HPV (+) or HPV (-)

platinum) setting to independently confirm the cohort 1 results.

- Progression (PD) after platinum-based chemotherapy and prior anti-PD-(L)1
- Maximum of 2 prior systemic treatment regimens for R/M disease
- Prior cetuximab allowed if for locally advanced disease with RT and no PD for at least 4 months

Treatment

Monalizumab

Cetuximab (750 mg Q2W) (as per label)

Primary endpoint

• Objective Response Rate (ORR) RECIST 1.1

Cetuximab inhibits EGFR signalling

- Secondary endpoints
- Safety
- Duration of Response (DoR)
- Progression Free Survival (PFS)
- Overall Survival (OS)

Exploratory endpoints

Translational analyses

until progression or unacceptable toxicity

References

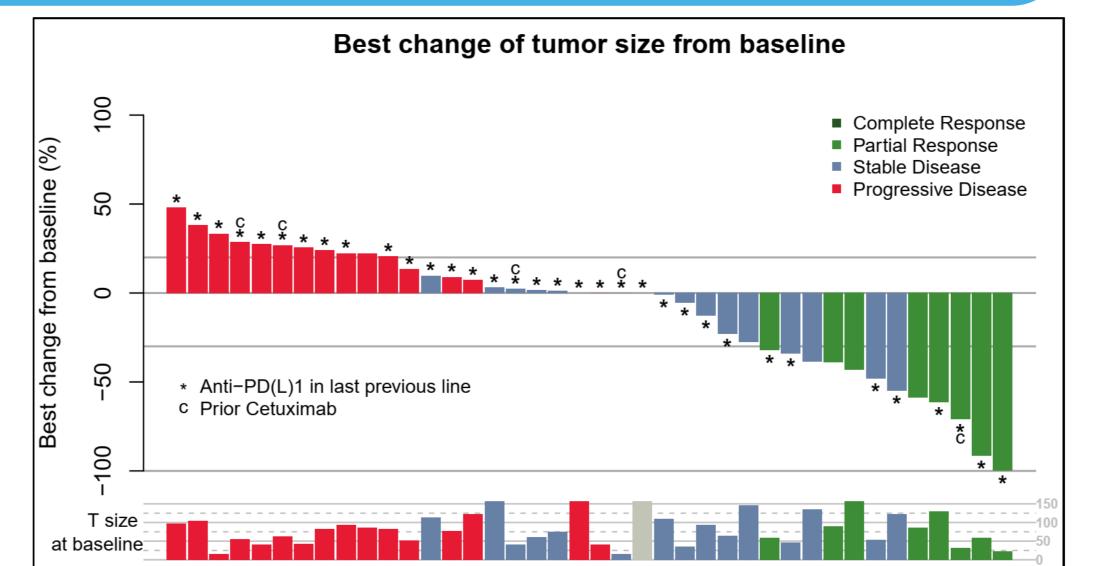
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Prospective cohort of 40 patients with R/M SCCHN treated with monalizumab and cetuximab

- Response rate of 20% in patients previously treated with both prior platinumbased chemotherapy and PD-(L)1 inhibitors, including IO resistant patients
 - ✓ This confirms the activity previously reported in the *post hoc* subset analysis in the IO-pretreated subgroup in cohort 1
 - ✓ and benchmarks favorably with historical data
- Randomized phase 3 trial planned in this setting

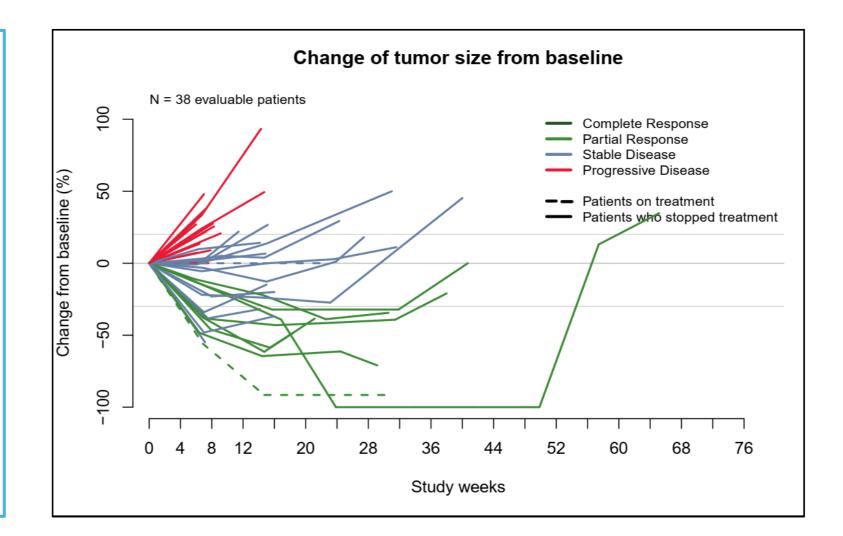
Activity Cohort 2, n=40 8 (20%) SD n (%) 15 (37.5%) PD n (%) 15 (37.5%) NE n (%) 2* (5%) 20% [10.5-34.8] ORR %, [95% CI] Time to Response median, [95% CI] 1.6 mo [1.6-5.3] Duration of Response median, [95% CI] 5.2 mo [3.9-NR]





Main results

- ✓ As of March 31, 2020, 40 patients were enrolled with a median follow-up of 9.6 months (1.9-15.9).
- ✓ Cohort 2 demonstrates an ORR of 20%, which confirms the activity previously reported in the *post* hoc subset analysis in the IO-pretreated subgroup in cohort 1 (ORR = 18%).8
- ✓ While the study was not randomized, these data compare favorably with historical data reported for cetuximab alone⁶⁻⁷ (ORR 12.6%) or for IO single agent (ORR 11-18%)¹⁰⁻¹¹ in R/M SCCHN after 1 line of previous systemic therapy. In our trial, 50% of the patients had received 1 prior line and 50% 2 prior lines.
- ✓ In post hoc analyses, response rate does not seem to vary in a clinically relevant manner in various subgroups: o platinum-sensitive (3 PR/21) vs. resistant patients (5 PR/19);
- o IO-sensitive (3 PR/17) vs. resistant patients (5 PR/23);
- o patients exposed to IO as last previous therapy (5 PR/34) vs. IO as earlier treatment (3 PR/6);
- o Overweight BMI≥25 (3 PR/13) vs. normal weight patients (5 PR/27);
- o 3 PRs were reported in the 15 patients with resistance to both platinum-based chemotherapy and IO;
- o given the small number of patients in each subgroup, all of these data must be interpreted cautiously.
- ✓ PFS, OS and biomarker data are not available yet and will be presented at a later date.



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	Patient Characteristics		Cohort 2 n=40 n (%)	Disease and prior treatment Characteristics		Cohort 2 n=40 n (%)	
	Age, median [range]		63 [38-83]	Tumor site	Oral cavity Oropharynx	12 (30%) 20 (50%)	
	Sex	Female Male	5 (12%) 35 (88%)	rumor site	Larynx Hypopharynx	4 (10%) 4 (10%)	
	ECOG	0	16 (40%) 24 (60%)	Type of recurrence	Local Distant	14 (35%) 26 (65%)	
	Tobacco	Never Former Current Not known	11 (28%) 25 (62%) 3 (8%) 1 (2%)	# of previous R/M systemic lines	1 2	20 (50%) 20 (50%)	
				Prior platinum resistant Prior platinum sensitive Prior IO sensitive (PR or SD) Prior IO resistant (best response PD) Prior cetuximab		19 (47%) 21 (53%)	
	Alcohol	Never Former	10 (25%) 19 (48%) 10 (25%) 1 (2%)			17 (43%) 23 (57%) 5 (12%)	
		Current Not known		Last line IO Last line other than IO		34 (85%) 6 (15%)	
	Of note, one additional patient who received only one dose of cetuximab and no dose of monalizumab was replaced and is not included in the analyses.			Time from last treatment to C1D1, median [range]		5.1 mo [1.3-56.3]	

Safety results

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- All 40 patients had at least one adverse event.
- 17 patients (42%) had Grade 3-4 AEs.
- The most common (> 10% of patients) AEs related to monalizumab or cetuximab were dermatitis acneiform (72%), dry skin (35%), pruritus (22%), fatigue (20%), hypomagnesemia (20%), skin fissures (20%), infusion related reaction (18%), mucosal inflammation (18%), nausea (18%), paronychia (18%), rash (15%), asthenia (12%), diarrhea (12%).
- Only 1 patient (2%) had AE grade 3-4 considered related to monalizumab: peripheral sensory neuropathy and asthenia.
- There was no AE leading to treatment discontinuation (of note, one patient left the study after the first administration of cetuximab and did not receive monalizumab; he was replaced and is not included in the analyses).
- There was no fatal AE.
- There was no potentiation of cetuximab side-effects.
- The overall safety profile is similar to that reported in the dose escalation and expansion cohort 1.

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