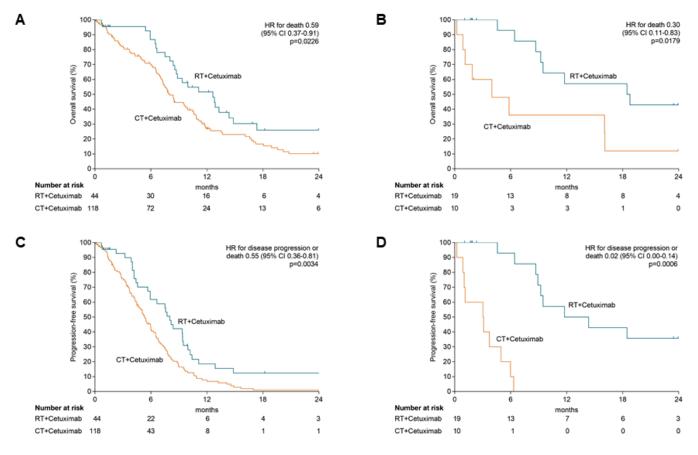




Supplementary Materials: A Prospective Real-World Multi-Center Study to Evaluate Progression-Free and Overall Survival of Radiotherapy with Cetuximab and Platinum-Based Chemotherapy with Cetuximab in Locally Recurrent Head and Neck Cancer

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Supplementary Figure S1. Kaplan-Meier analyses of OS in patients with prior RT (**A**) and without prior RT (**B**) and PFS in patients with prior RT (**C**) and without prior RT (**D**).

Supplementary Table S1. Univariate and multivariable Cox proportional hazard models to investigate the association between patient characteristics and overall survival.

Explanatory f	factors	Ν	Death	HR	95% CI	<i>p</i> -value
	Un	ivariate				
	≤65 years	113	76	1		-
Age at study inclusion	>65–75 years	52	33	0.82	0.53-1.22	0.3333
	>75 years	27	21	1.07	0.65–1.71	0.7715
Sex	Male	153	107	1		-

	Female	39	23	0.80	0.50–1.24	0.3423
Body weight *	Per 5 kg	192	130	1.06	0.99–1.13	0.1043
	Never	44	34	1		-
	Several times per month	44	30	0.70	0.42–1.15	0.1575
Alcohol consumption *	Several times per week or daily	47	31	0.59	0.36-0.95	0.0316
	Missing	57	35	0.66	0.41-1.06	0.0819
	Never smoked	55	39	1		-
Smoking habits *	Former smoker	72	50	0.98	0.64-1.50	0.9190
	Current smoker	64	40	0.66	0.43-1.03	0.0688
	0	95	62	1		_
Charlson comorbidity index at	1	37	27	1.12	0.70-1.74	0.6344
study inclusion	>1	60	41	1.20	0.80-1.78	0.3611
	Chemotherapy only	129	98	1		-
Chemotherapy/Radiotherapy *	Radiotherapy only	63	32	0.50	0.33-0.75	0.0008
Duration since initial diagnosis	Per year	192	130	1.00	0.97-1.03	0.8195
Prior Radiotherapy *	Yes	163	114	1		-
	No	29	13	0.64	0.37-1.06	0.1013
Prior chemotherapy concomi- tant to radiotherapy *	Yes	109	77	1		-
<u> </u>	No	82	52	0.88	0.62-1.25	0.4925
	0	31	17	1		-
ECOG performance status at	1	112	77	1.59	0.97–2.79	0.0828
treatment initiation *	≥2	36	28	2.36	1.30-4.41	0.0054
	Unknown	13	8	1.16		0.7463
	Oropharynx	44	32	1		-
	Hypopharynx	33	24	1.06	0.61-1.81	0.8326
	Larynx	25	16	1.09	0.58-1.95	0.7902
Location of primary tumor	Oral cavity	61	38	0.98	0.61-1.58	0.9419
	Other	9	7	1.03	0.42-2.21	0.9344
	Multiple locations	20	13	1.38	0.70-2.57	0.3330
Overall VAS score *	Per 10 points	137	87	1.19	1.08-1.31	0.0004
	Multiva					
Body weight	Per 5 kg	136	86	1.12	1.03-1.21	0.0054
	Chemotherapy only	85	61	1		-
Chemotherapy/Radiotherapy	Radiotherapy only	51	25	0.57	0.35-0.92	0.0240
Overall VAS score	Per 10 points	136	86	1.19	1.08-1.32	0.0008

HR: Hazard Ratio; CI: Confidence Interval; ECOG: Eastern Cooperative Oncology Group; VAS: Visual Analogue Scale. [†] Final Cox regression model after backward selection. Within the selection process, all explanatory factors with an effect *p*-value of < 0.2 in the univariate Cox regression analysis were considered (*). Only factors with p < 0.05 remained in the final model. Note: Due to missing data, mainly for the Overall VAS score, only 136 patients were available for the multivariable analysis.

Supplementary Table S2. Best Overall response during treatment.

	RT + Cet n = 63 Patients (%)	CT + Cet n = 129 Patients (%)	<i>p</i> -value	
Overall response (CR + PR)	26 (41)	33 (26)	0.0282	
Complete response (CR)	9 (14)	8 (6)		

Partial response (PR)	17 (27)	25 (19)	
Stable disease (SD)	8 (13)	37 (29)	
Progressive disease (PD)	7 (11)	22 (17)	
unknown	22 (35)	37 (29)	