
Cetuximab, docetaxel, and cisplatin versus platinum, fluorouracil, and cetuximab as first-line treatment in patients with recurrent or metastatic head and neck squamous-cell carcinoma (GORTEC 2014-01 TPExtreme): a multicentre, open-label, randomised, phase 2 trial



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Study background

The TPExtreme study: Rationale for the study

Phase III EXTREME, 2008¹

10.1 months mOS
Platinum + 5-FU* +
cetuximab

Improved outcomes, with no
detriment to safety¹ or QoL²

Is it feasible to substitute
5-FU with a taxane and
increase efficacy?



Phase II GORTEC, 2015³

14.0 months mOS
Cisplatin + taxane* +
cetuximab⁺

The synergistic effect of taxanes
+ cetuximab has been
demonstrated in
preclinical studies⁴

+

Taxanes and cetuximab +
platinum have shown promising
anti-tumor efficacy^{†3}

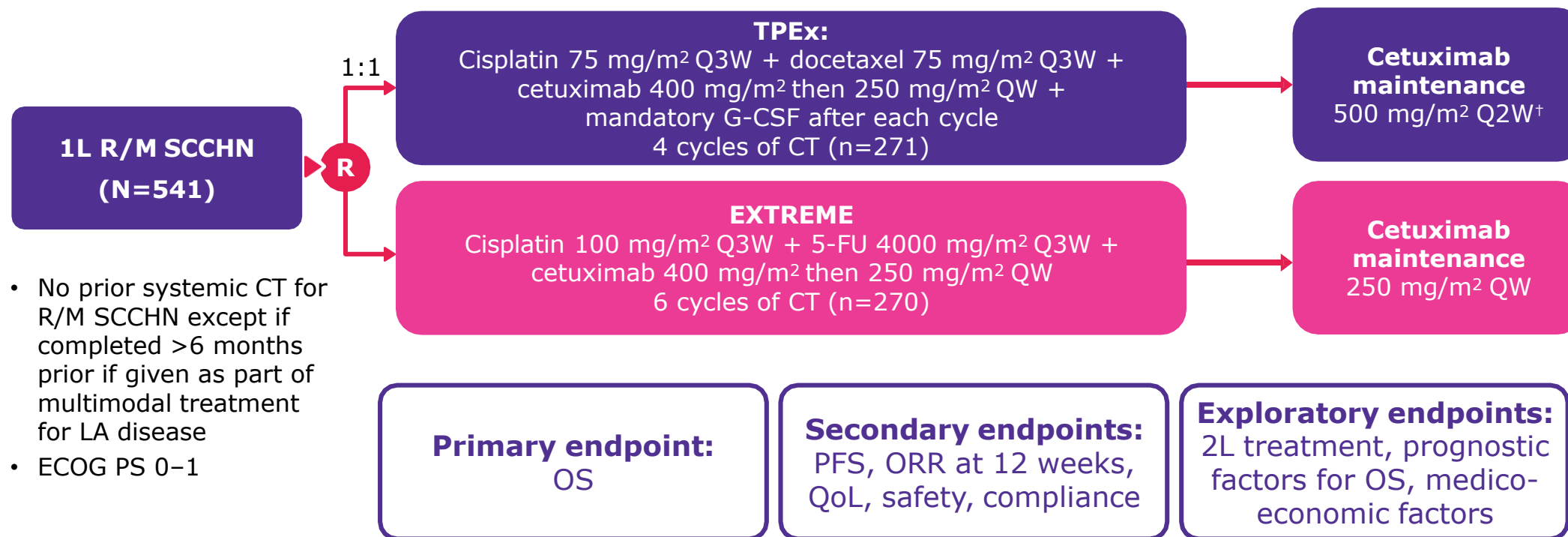
+

The TPEx regimen has
advantages over EXTREME:^{‡4,5}

- Shorter treatment infusion
- Easier delivery
- Fewer contraindications

*1. Vermorken JB, et al. N Engl J Med 2008;359:1116–1127; 2. Mesía R, et al. Ann Oncol 2010;21:1967–1973; 3. Guigay J, et al. Ann Oncol 2015;26:1941–1947;
4. Guigay J, et al. Front Oncol 2019;9:668; 5. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5.

TPExtreme: The first large randomized study comparing TPEX with EXTREME for 1L R/M SCCHN⁵



- No prior systemic CT for R/M SCCHN except if completed >6 months prior if given as part of multimodal treatment for LA disease
- ECOG PS 0–1

Note: For the EXTREME arm, if cisplatin is not tolerated and/or when the total cumulative dose of cisplatin (including prior administration) reaches 600 mg/m², cisplatin has to be replaced with carboplatin, AUC 5.

5. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5.

Baseline characteristics were well balanced between the arms⁵

Patient characteristics

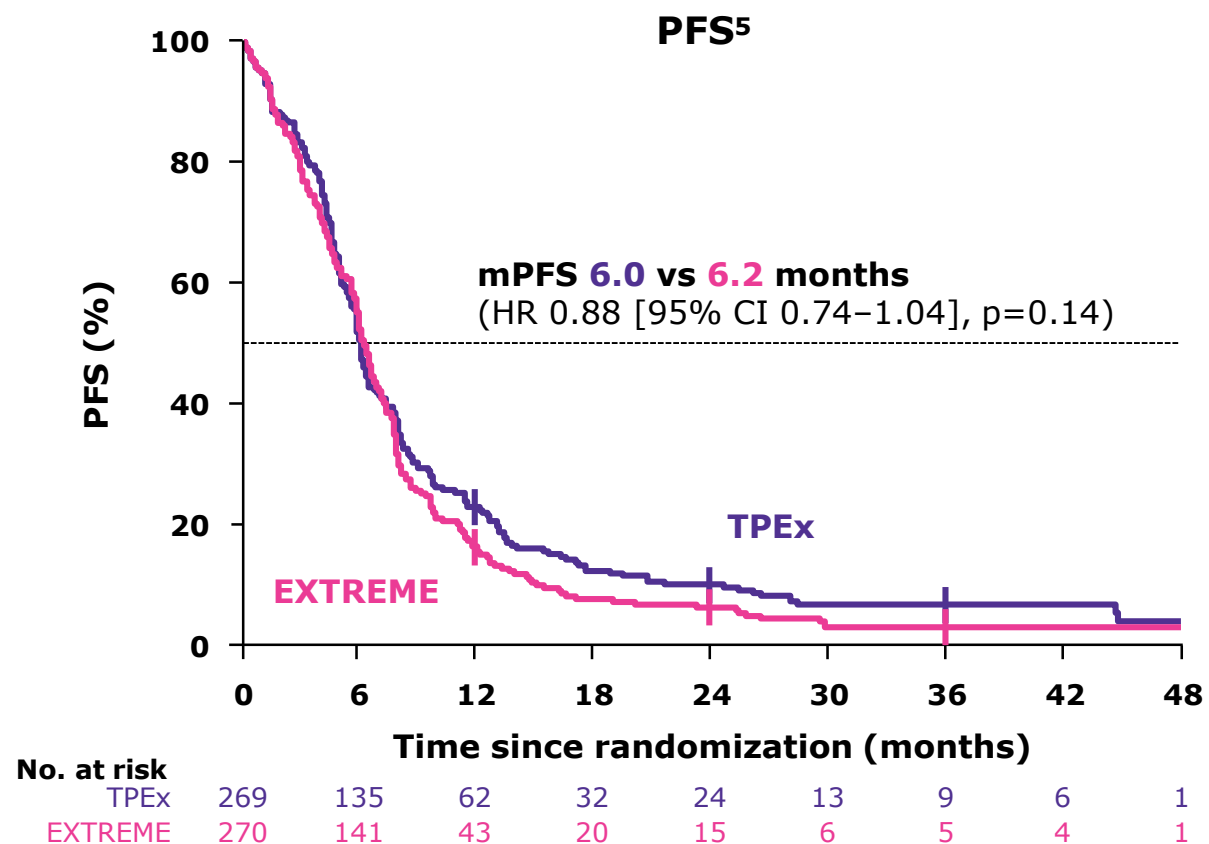
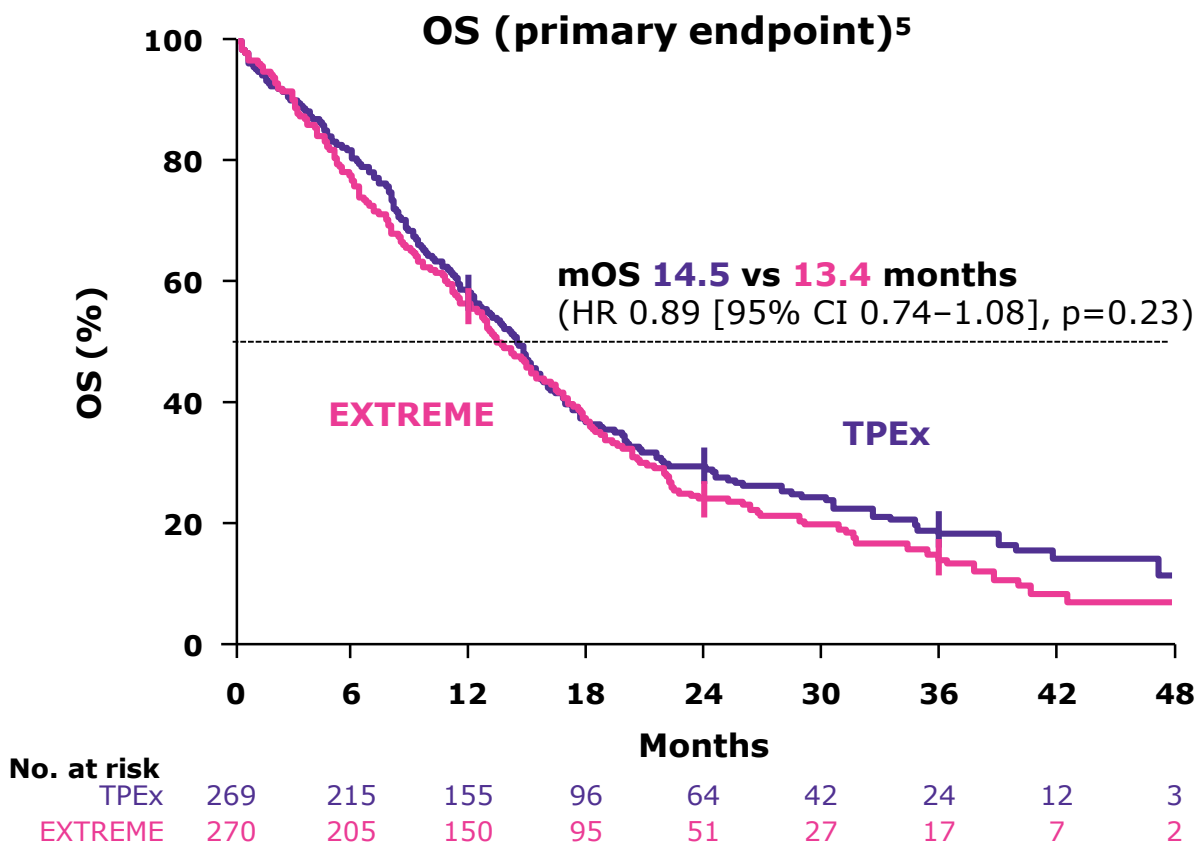
	TPEX (n=269)	EXTREME (n=270)
Median age, years (range)	60 (55–64)	60 (55–63)
Male, n (%)	240 (89)	231 (86)
ECOG PS 1, n (%)	183 (68)	184 (68)
Current/former smoker, n (%)	255 (95)	243 (90)
Prior platinum, n (%)	156 (58)	140 (52)

Disease characteristics

	TPEX (n=269)	EXTREME (n=270)
Primary tumor site		
Hypopharynx	54 (20%)	63 (23%)
Oral cavity	57 (21%)	52 (19%)
Larynx	34 (13%)	57 (21%)
Oropharynx (OPC)	120 (45%)	96 (36%)
OPC-HPV-DNA-positive	20/104 (19%)	14/76 (18%)
Type of disease at inclusion		
Metastatic alone	110 (41%)	118 (44%)
Locoregional relapse alone	94 (35%)	98 (36%)
Metastatic and locoregional relapse	65 (24%)	54 (20%)

Primary and secondary endpoints

The mOS for TPEX was similar to that of the EXTREME arm, which was higher than in any previous RCT*1,4,5



1. Vermorken JB, et al. New Engl J Med 2008;359:1116-1127; 4. Guigay J, et al. Front Oncol 2019;9:668; 5. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5.

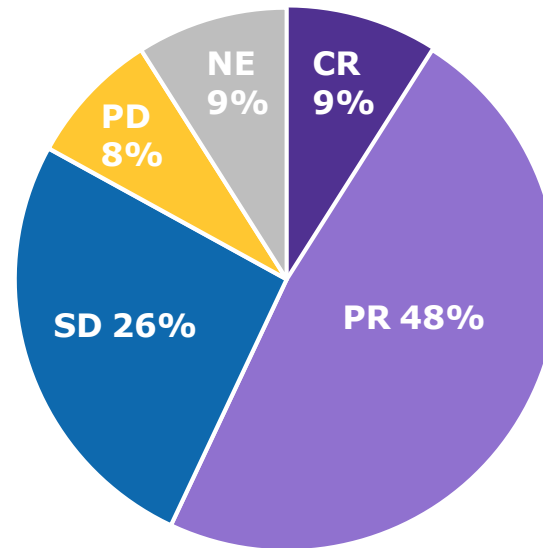
The TPEX and EXTREME regimens demonstrated similarly high response rates*⁵

**ORR (Week 12,
as per independent
central review)⁵**

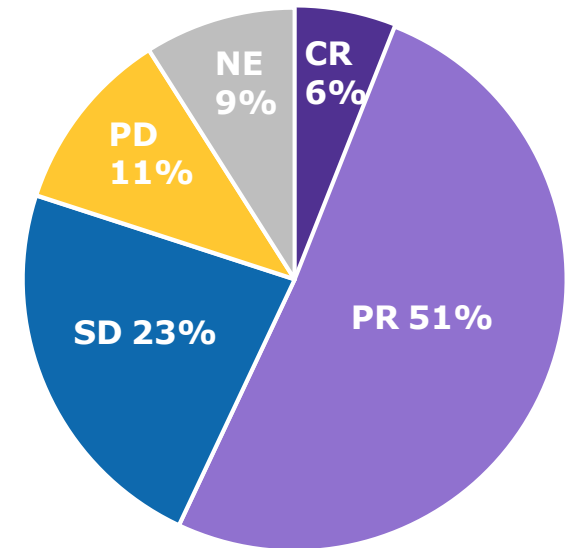
TPEX vs EXTREME:
57% vs 59%, p=0.64

Best overall response (investigator-assessed)⁵

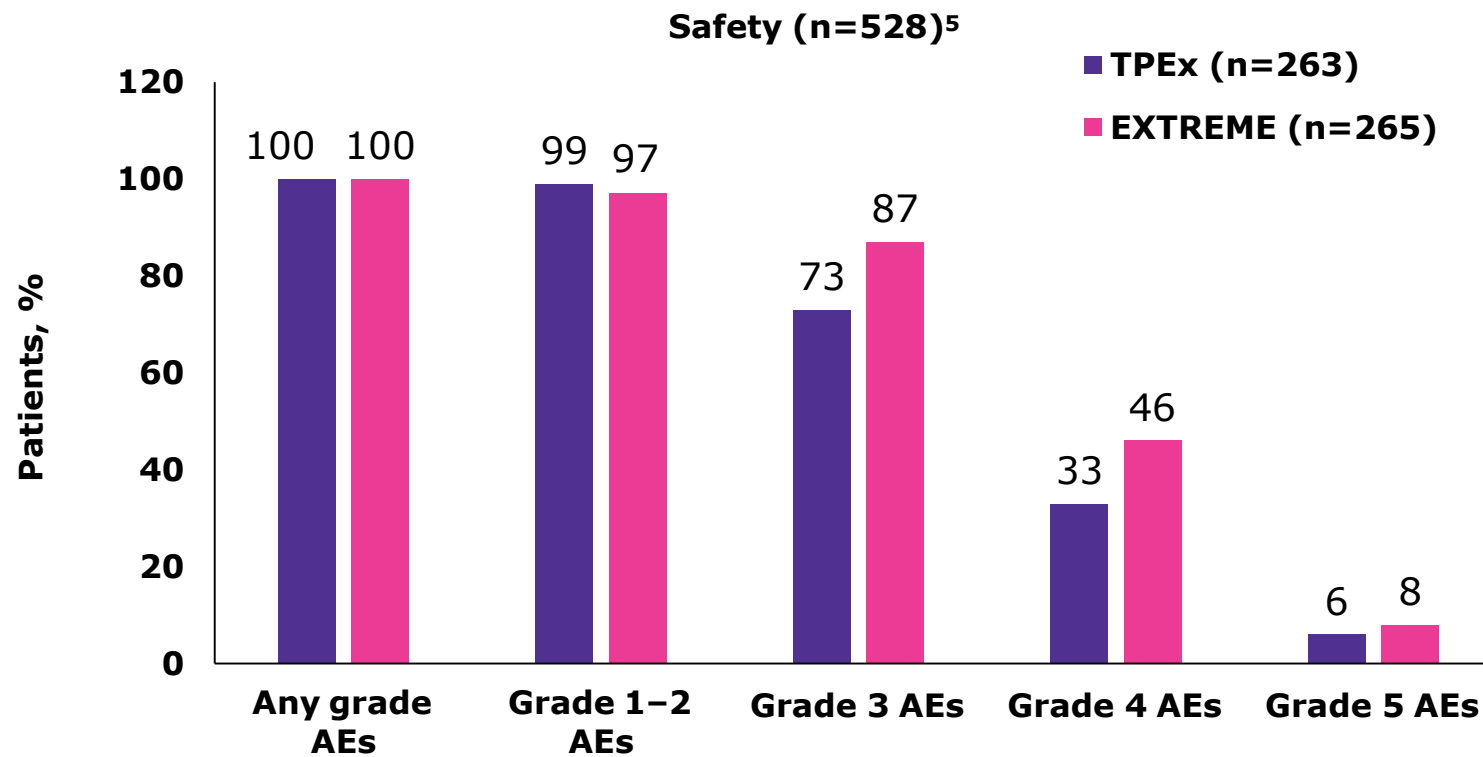
TPEX (n=269)



EXTREME (n=270)

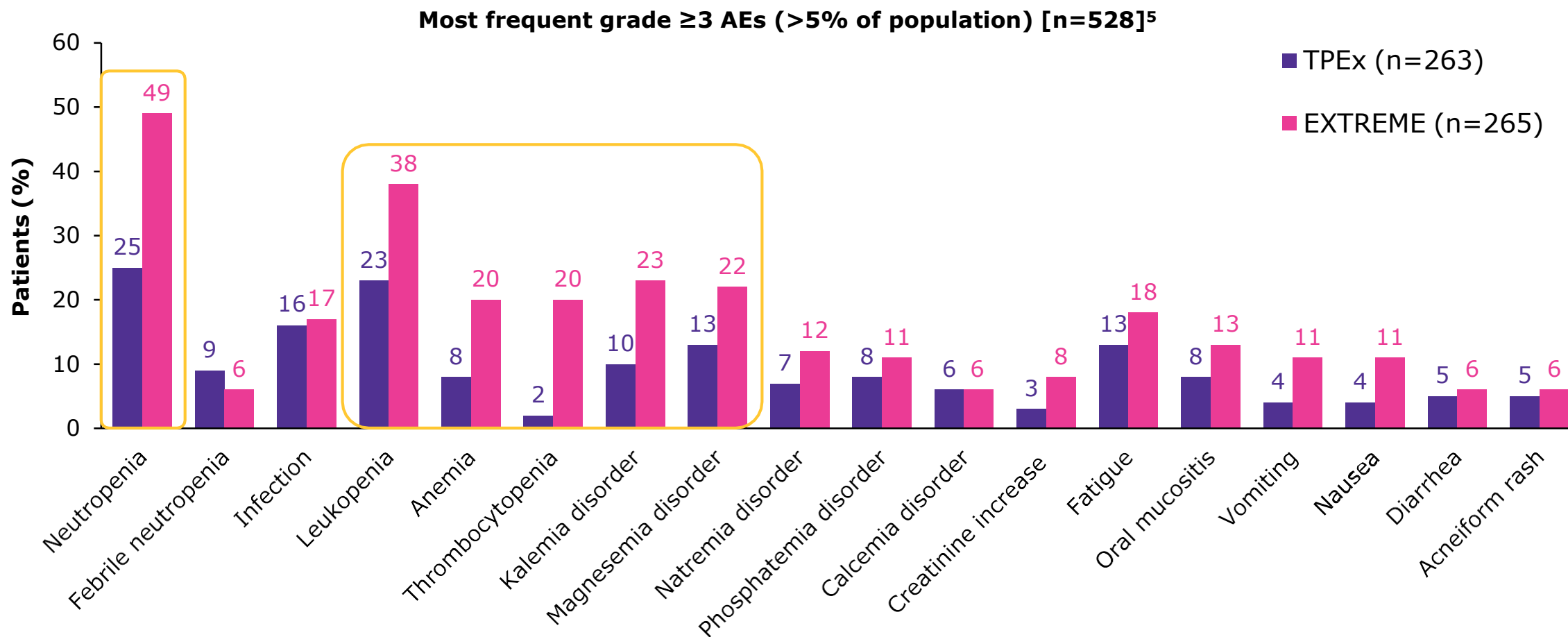


TPEX was associated with significantly fewer grade ≥ 3 AEs than EXTREME⁵



Total grade ≥ 3 AEs:
81% with TPEX
vs **93%** with EXTREME
(p<0.0001)⁵

TPEX has a favorable safety profile compared with EXTREME⁵



Compliance to treatment was better with TPEX than with EXTREME⁵

Compliance

Median number of CT cycles delivered, p:NR⁵

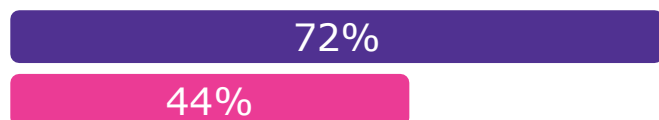


Maintenance

Patients who started maintenance, p<0.0001⁵



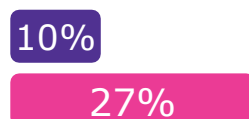
Patients who received all planned cycles of CT, p<0.0001⁵



Median duration of CT, p:NR⁵



CT cycles administered with delay, p:NR⁵



Median duration of maintenance, p:NR⁵



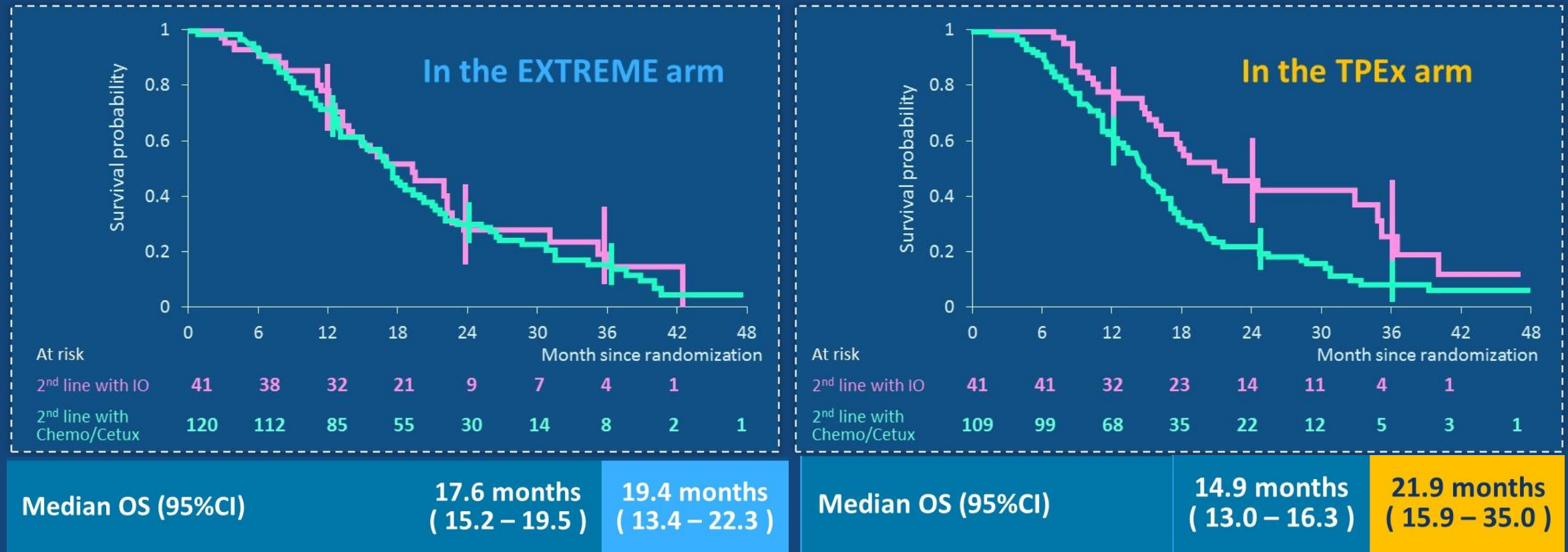
Explorator
y
endpoints

2nd line treatment

	EXTREME arm	TPEX arm
Patients with 2 nd line data available	256	245
2 nd line received	164 (64%)	157 (64%)
Type of 2 nd line		
IO (anti PD-1/PDL-1)	41 (16%)	41 (17%)
Taxane based chemotherapy	56 (22%)	30 (12%)
Other chemotherapy	40 (16%)	61 (25%)
Cetuximab +/- chemotherapy	24 (9%)	18 (7%)
Radiotherapy	3 (1%)	7 (3%)

- 79% and 85% of the 2nd line treatments were given after progression in **EXTREME** and **TPEX** arms, respectively.

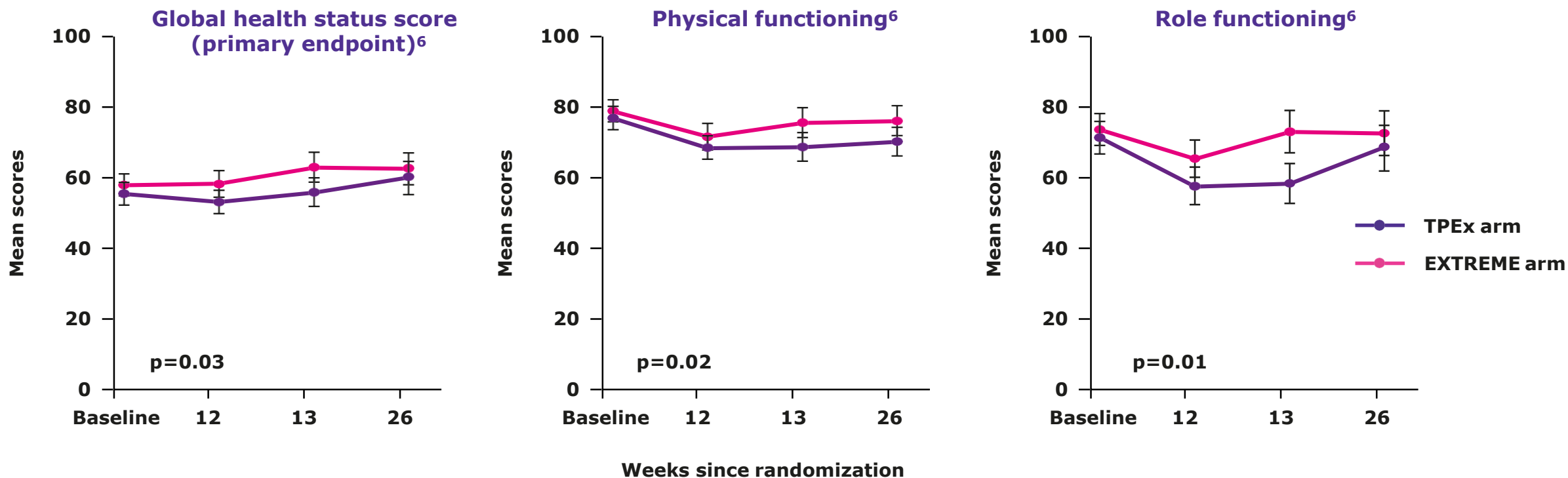
2nd line treatment: Overall Survival since randomization in each arm according to Chemo +/- Cetux vs IO



Significantly improved QoL scores were observed with TPEX vs EXTREME*1,6

Pre-specified exploratory analysis of QoL⁵

The EORTC QLQ-C30 was used to measure patient QoL at baseline, Weeks 12, 18, and 26



5. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5; 6. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5 (Supplementary appendix).

The large, randomized TPExtreme study: Summary*

X vs Y

The TPExtreme study compared TPEX (cisplatin + docetaxel + cetuximab) with EXTREME (platinum + 5-FU + cetuximab), both followed by cetuximab maintenance, for the treatment of 1L R/M SCCHN⁵



Compared with EXTREME, the TPEX regimen offered simplified dosing and administration, and required fewer cycles of CT (4 vs up to 6)⁵

As the TPEX regimen does not contain 5-FU, it is suitable for patients with DPD deficiency⁸



Treatment with TPEX was associated with robust OS, PFS and ORR outcomes, with low levels of PD⁵

TPEX demonstrated improved safety and compliance vs EXTREME⁵



TPEX demonstrated improved QoL outcomes vs EXTREME, with improvements in global health status, and physical and role functioning⁵



Treatment with 1L TPEX, followed by 2L ICI, resulted in an unprecedented, long mOS of 21.9 months^{5,6}



TPEX is a SoC treatment option, recommended by international guidelines for the treatment of 1L R/M SCCHN⁸

5. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5; 6. Guigay J, et al. Lancet Oncol 2021;doi:S1470-2045(20)30755-5 (Supplementary appendix);

8. Machiels JP et al. Ann Oncol 2020;31:462-1475.