

GI SLIDE DECK 2020

Selected abstracts from:



ESMO Virtual Congress 2020

19–21 September 2020

Letter from ESDO

DEAR COLLEAGUES

It is our pleasure to present this ESDO slide set which has been designed to highlight and summarize key findings in digestive cancers from the major congresses in 2020. This slide set specifically focuses on the **ESMO Virtual Congress 2020** and is available in English, French, Chinese and Japanese.

The area of clinical research in oncology is a challenging and ever changing environment. Within this environment, we all value access to scientific data and research which helps to educate and inspire further advancements in our roles as scientists, clinicians and educators. I hope you find this review of the latest developments in digestive cancers of benefit to you in your practice. If you would like to share your thoughts with us we would welcome your comments. Please send any correspondence to info@esdo.eu.

Finally, we are also very grateful to Lilly Oncology for their financial, administrative and logistical support in the realization of this activity.

Yours sincerely,

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ESDO Medical Oncology Slide Deck

Editors 2020

COLORECTAL CANCERS

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PANCREATIC CANCER AND HEPATOBILIARY TUMOURS

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GASTROESOPHAGEAL AND NEUROENDOCRINE TUMOURS

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BIOMARKERS

Prof Eric Van Cutsem	Digestive Oncology, University Hospitals, Leuven, Belgium	
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Glossary

1L	first-line	GEJ	gastroesophageal junction	PDAC	pancreatic ductal adenocarcinoma
AE	adverse event	GEP	gastroenteropancreatic	PD-L1	programmed death-ligand 1
ALT	alanine aminotransferase	GEM	gemcitabine	(m)PFS	(median) progression-free survival
AST	aspartate aminotransferase	GI	gastrointestinal	PK	pharmacokinetics
BICR	blinded-independent central review	Gy	Gray	po	orally
bid	twice daily	HAIC	hepatic arterial infusion	PR	partial response
BOR	best overall response		chemotherapy	PS	performance status
CBR	clinical benefit rate	HCC	hepatocellular carcinoma	q(2/3/4)w	every (2/3/4) week(s)
CEA	carcinoembryonic antigen	HER2	human epidermal growth factor	QLQ-CR29/30	quality of life questionnaire
CI	confidence interval		receptor 2	CR29/C30	
CPS	combined positive score	HIV	human immunodeficiency virus	QoL	quality of life
CR	complete response	HR	hazard ratio	R	randomised
(m)CRC	(metastatic) colorectal cancer	IHC	immunohistochemistry	R0/1	resection 0/1
CRT	chemoradiotherapy	ISH	in situ hybridisation	(ir/m)RECIST	(immune-related/modified)
CT	chemotherapy	ITT	intent-to-treat		Response Evaluation
ctDNA	circulating tumour DNA	iv	intravenous		Criteria In Solid Tumors
CTLA-4	cytotoxic T-lymphocyte-associated protein 4	LN	lymph node	RT	radiotherapy
DCR	disease control rate	LSM	least squares of mean	S-1	tegafur-gimeracil-oteracil-potassium
DFS	disease-free survival	LVSD	left ventricular systolic dysfunction	SAE	serious adverse event
dMMR	deficient mismatch repair	MDS	myelodysplastic syndromes	SCAC	squamous carcinoma of the anal canal
DoR	duration of response	MSI-H	high microsatellite instability		stable disease
EAC	esophageal adenocarcinoma	NA	not available	SD	standard error
ECOG	Eastern Cooperative Oncology Group	NE	not evaluable/not estimable	SE	system organ class
EQ-5D-3L	EuroQol five dimensions three levels questionnaire	NEN	neuroendocrine neoplasm	SOC	transarterial chemoembolisation
		NIVO	nivolumab	TACE	treatment-emergent adverse event
		NR	not reached	TEAE	treatment-related adverse event
		NS	non-significant	TRAЕ	time to response
(m)FOLFOX	(modified) leucovorin + 5-fluorouracil + oxaliplatin	od	once daily	TTR	visual analogue scale
FOLFIRINOX	leucovorin + 5-fluorouracil + irinotecan + oxaliplatin	ORR	overall/objective response rate	VAS	World Health Organization
	fluorouracil	(m)OS	(median) overall survival	WHO	capecitabine + oxaliplatin
FU		pCR	pathological complete response	XELOX	
		PD	progressive disease		

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CANCERS OF THE ESOPHAGUS AND STOMACH

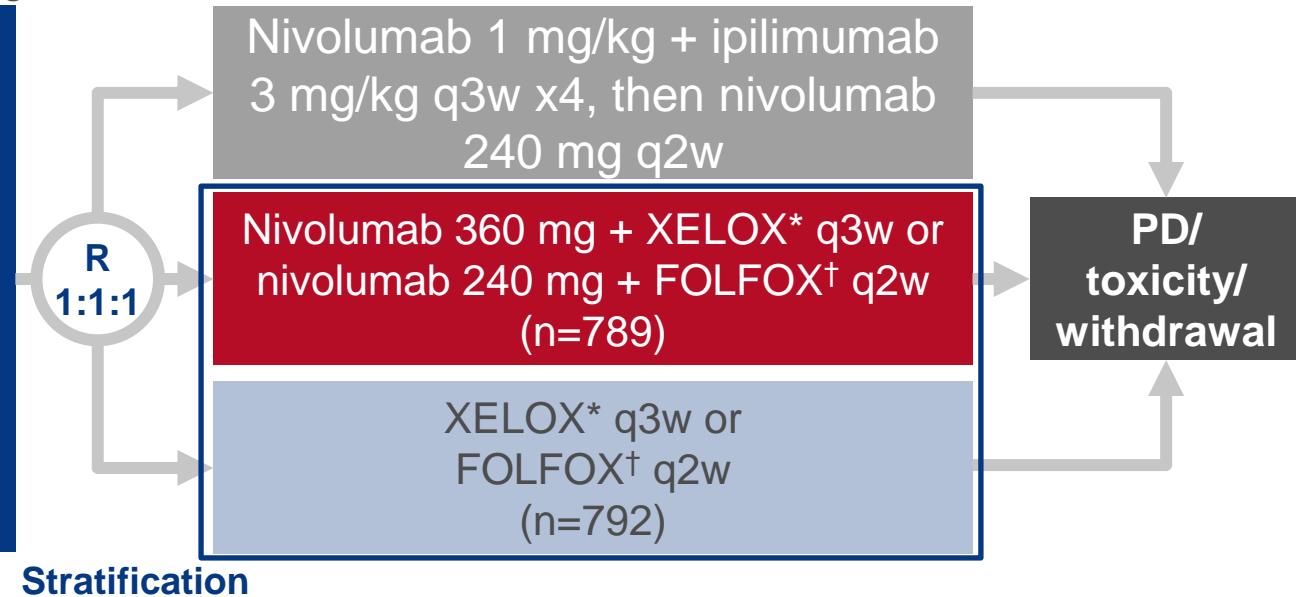
LBA6: Nivolumab (NIVO) plus chemotherapy (chemo) versus chemo as first-line (1L) treatment for advanced gastric cancer/gastroesophageal junction cancer (GC/GEJC)/esophageal adenocarcinoma (EAC): First results of the CheckMate 649 study – Moehler M, et al

Study objective

- To evaluate the efficacy and safety of nivolumab as a 1L treatment for patients with gastric or GEJ cancer or esophageal adenocarcinoma

Key patient inclusion criteria

- Previously untreated, unresectable advanced or metastatic gastric or GEJ cancer or esophageal adenocarcinoma
- No known HER2+ status
- ECOG PS 0–1
(n=1581)



Stratification

- Region, ECOG PS, chemotherapy regimen, PD-L1 expression

CO-PRIMARY ENDPOINTS

- OS and PFS (PD-L1 CPS ≥5)

SECONDARY ENDPOINTS

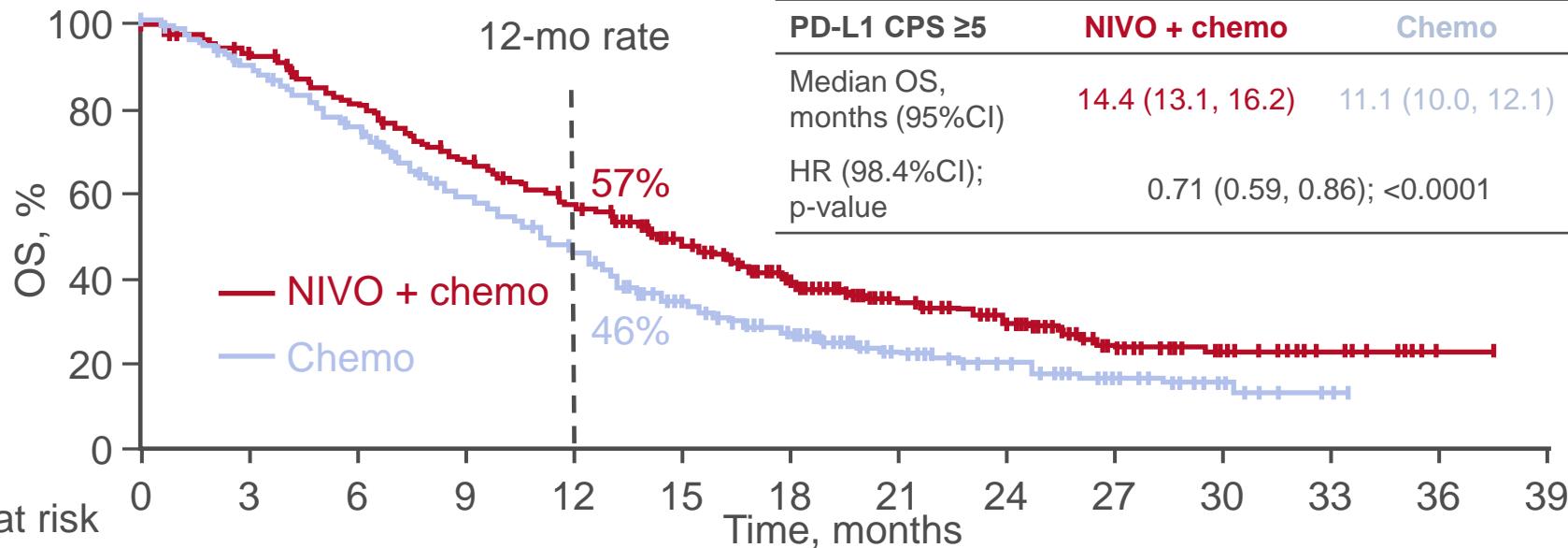
- OS, PFS, ORR, safety

*Oxaliplatin 130 mg/m² iv D1 + capecitabine 1000 mg/m² po bid
D1–14; †oxaliplatin 85 mg/m², leucovorin 400 mg/m² + FU 400 mg/m²
D1 then FU 1200 mg/m² iv D1–2. Data cut-off 27 May 2020.

LBA6: Nivolumab (NIVO) plus chemotherapy (chemo) versus chemo as first-line (1L) treatment for advanced gastric cancer/gastroesophageal junction cancer (GC/GEJC)/esophageal adenocarcinoma (EAC): First results of the CheckMate 649 study – Moehler M, et al

Key results

Overall survival (PD-L1 CPS ≥ 5)



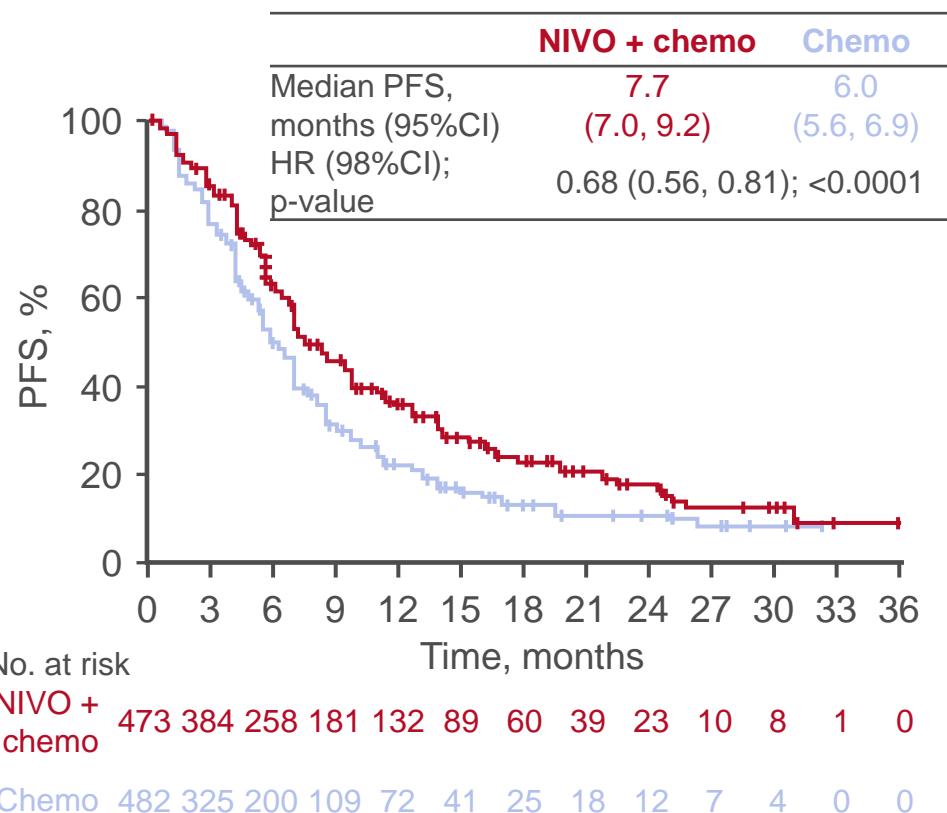
PD-L1 CPS ≥ 1	NIVO + chemo	Chemo
Median OS, months (95%CI)	14.0 (12.6, 15.0)	11.3 (10.6, 12.3)
HR (99.3%CI); p-value	0.77 (0.64, 0.92); 0.0001	

All randomized	NIVO + chemo	Chemo
Median OS, months (95%CI)	13.8 (12.6, 14.6)	11.6 (10.9, 12.5)
HR (99.3%CI); p-value	0.80 (0.68, 0.94); 0.0002	

LBA6: Nivolumab (NIVO) plus chemotherapy (chemo) versus chemo as first-line (1L) treatment for advanced gastric cancer/gastroesophageal junction cancer (GC/GEJC)/esophageal adenocarcinoma (EAC): First results of the CheckMate 649 study – Moehler M, et al

Key results (cont.)

PFS (PD-L1 CPS ≥5)



Response in PD-L1 CPS ≥5

	NIVO + chemo (n=378)	Chemo (n=391)
ORR, % (95%CI)	60 (55, 65)	45 (40, 50)
	p<0.0001	
CR	12	7
PR	48	38
SD	28	34
PD	7	11
NE	6	10
Median TTR, months (range)	1.5 (0.8, 10.2)	1.5 (1.0, 7.1)
Median DoR, months (95%CI)	9.5 (8.0, 11.4)	7.0 (5.7, 7.9)

12-month PFS rate: NIVO + chemo, 36%; Chemo, 22%

LBA6: Nivolumab (NIVO) plus chemotherapy (chemo) versus chemo as first-line (1L) treatment for advanced gastric cancer/gastroesophageal junction cancer (GC/GEJC)/esophageal adenocarcinoma (EAC): First results of the CheckMate 649 study – Moehler M, et al

Key results (cont.)

AEs, n (%)	Nivolumab + chemotherapy (n=782)		Chemotherapy (n=767)	
	Any grade	Grade 3–4	Any grade	Grade 3–4
Any TRAE	738 (94)	462 (59)	679 (89)	341 (44)
Serious TRAE	172 (22)	131 (17)	93 (12)	77 (10)
TRAE leading to discontinuation	284 (36)	132 (17)	181 (24)	67 (9)
Treatment-related deaths	12 (2)		4 (<1)	
Selected TRAE				
Endocrine	107 (14)	5 (<1)	3 (<1)	0
Gastrointestinal	262 (34)	43 (5)	207 (27)	25 (3)
Hepatic	203 (26)	29 (4)	134 (17)	16 (2)
Pulmonary	40 (5)	14 (2)	4 (<1)	1 (<1)
Renal	26 (3)	6 (<1)	8 (1)	1 (<1)
Skin	214 (27)	26 (3)	105 (14)	6 (<1)

LBA6: Nivolumab (NIVO) plus chemotherapy (chemo) versus chemo as first-line (1L) treatment for advanced gastric cancer/gastroesophageal junction cancer (GC/GEJC)/esophageal adenocarcinoma (EAC): First results of the CheckMate 649 study – Moehler M, et al

Conclusions

- In previously untreated patients with advanced gastric or GEJ cancer or esophageal adenocarcinoma, nivolumab + chemotherapy provided improvements in OS and PFS compared with chemotherapy alone
- There were no new safety signals observed

LBA7: Nivolumab plus chemotherapy versus chemotherapy alone in patients with previously untreated advanced or recurrent gastric/gastroesophageal junction (G/GEJ) cancer: ATTRACTION-4 (ONO-4538-37) study – Boku N, et al

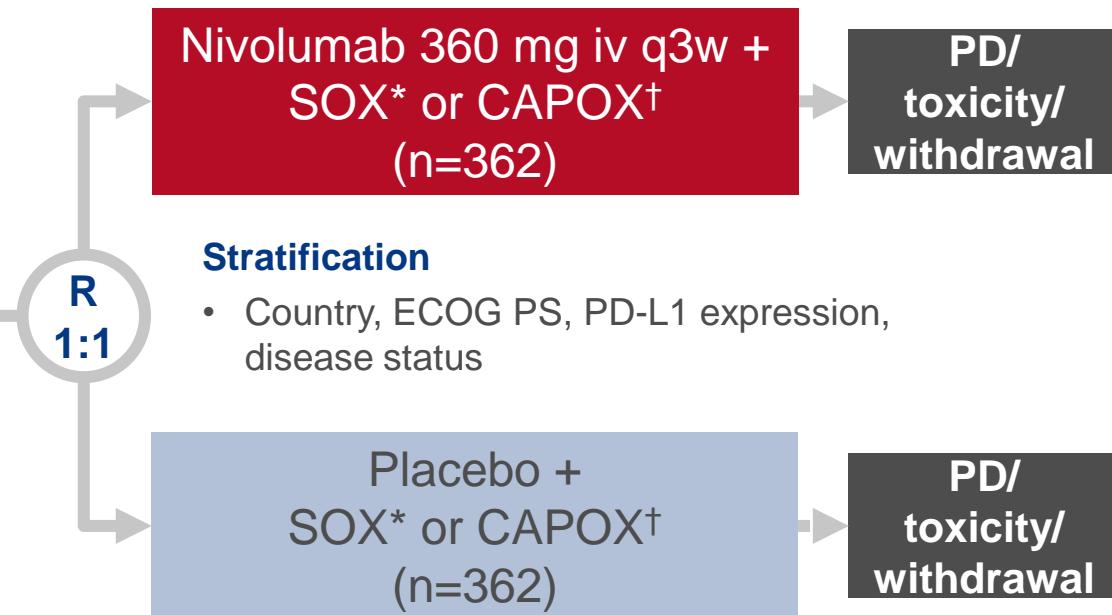
Study objective

- To evaluate the efficacy and safety of nivolumab in patients with gastric or GEJ cancer

Key patient inclusion criteria

- Unresectable advanced or recurrent HER2- gastric or GEJ cancer
- Chemo-naïve
- ECOG PS 0–1

(n=724)



CO-PRIMARY ENDPOINTS

- PFS (central assessment), OS

SECONDARY ENDPOINTS

- PFS (investigator-assessed), ORR, DoR, DCR, TTR, BOR, safety

*S-1 40 mg/m² po bid D1–14 + oxaliplatin 130 mg/m² iv q3w;

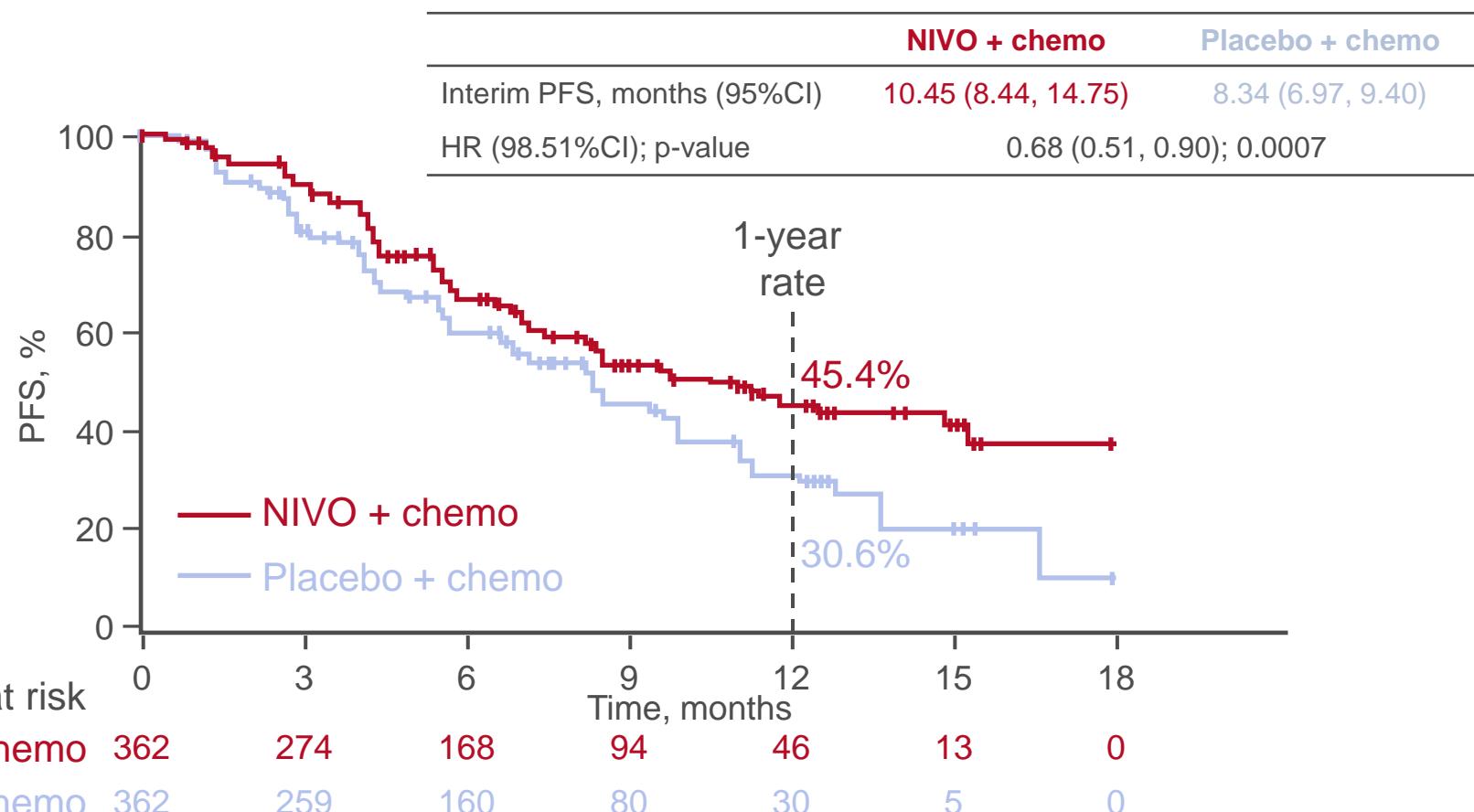
†capecitabine 1000 mg/m² po bid D1–14 + oxaliplatin 130 mg/m² iv q3w.

Interim PFS analysis data cut-off 31 October 2018 and final OS analysis data cut-off 31 January 2020.

LBA7: Nivolumab plus chemotherapy versus chemotherapy alone in patients with previously untreated advanced or recurrent gastric/gastroesophageal junction (G/GEJ) cancer: ATTRACTION-4 (ONO-4538-37) study – Boku N, et al

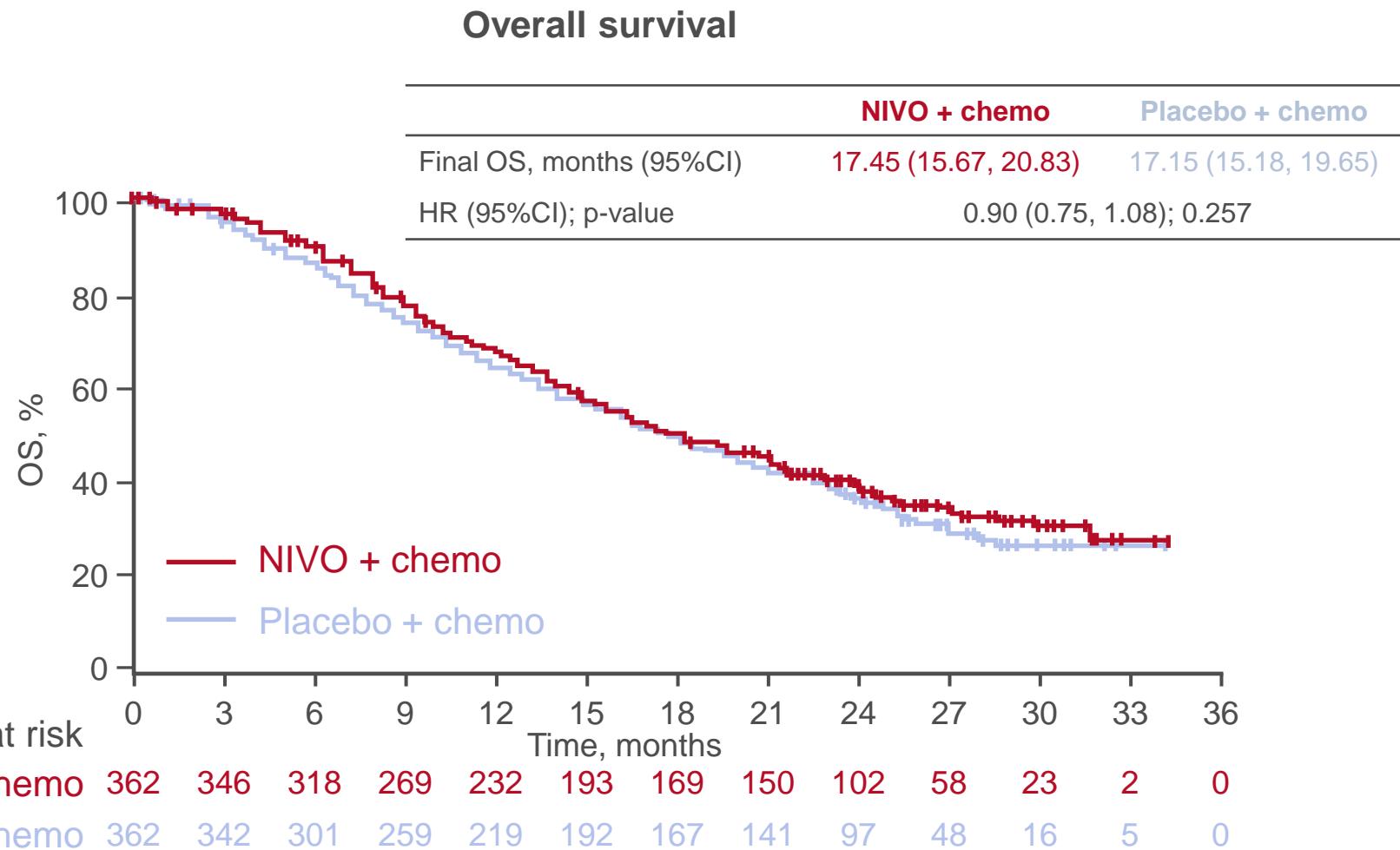
Key results

Progression-free survival



LBA7: Nivolumab plus chemotherapy versus chemotherapy alone in patients with previously untreated advanced or recurrent gastric/gastroesophageal junction (G/GEJ) cancer: ATTRACTION-4 (ONO-4538-37) study – Boku N, et al

Key results (cont.)



Data cut-off 31 January 2020.

Boku N, et al. Ann Oncol 2020;31(suppl):abstr LBA7

LBA7: Nivolumab plus chemotherapy versus chemotherapy alone in patients with previously untreated advanced or recurrent gastric/gastroesophageal junction (G/GEJ) cancer: ATTRACTION-4 (ONO-4538-37) study – Boku N, et al

Key results (cont.)

	NIVO + chemo (n=362)	Chemo (n=362)
ORR, n (%) [95%CI]	208 (57.5) [52.2, 62.6]	173 (47.8) [42.5, 53.1]
		p=0.0088
BOR, n (%)		
CR	70 (19.3)	48 (13.3)
PR	138 (38.1)	125 (34.5)
SD	52 (14.4)	75 (20.7)
PD	25 (6.9)	46 (12.7)
NE	77 (21.3)	68 (18.8)
DCR, n (%) [95%CI]	260 (71.8) [66.9, 76.4]	248 (68.5) [63.4, 73.3]
Median TTR, months (range)	1.4 (1.0–8.3)	1.4 (1.0–15.3)
Median DoR, months (95%CI)	12.9 (9.9, 16.6)	8.7 (7.2, 11.4)

LBA7: Nivolumab plus chemotherapy versus chemotherapy alone in patients with previously untreated advanced or recurrent gastric/gastroesophageal junction (G/GEJ) cancer: ATTRACTION-4 (ONO-4538-37) study – Boku N, et al

Key results (cont.)

TRAEs, n (%)	Nivolumab + chemo (n=378)			Chemo (n=391)		
	Any grade	Grade 3–4	Grade 5	Any grade	Grade 3–4	Grade 5
Any	351 (97.8)	205 (57.1)	3 (0.8)	349 (97.5)	174 (48.6)	2 (0.6)
Serious	88 (24.5)	66 (18.4)	3 (0.8)	51 (14.2)	33 (9.2)	2 (0.6)
Leading to discontinuation	22 (6.1)	11 (3.1)	3 (0.8)	17 (4.7)	8 (2.2)	2 (0.6)
Leading to dose delay/reduction	307 (85.5)	169 (47.1)	0	291 (81.3)	140 (39.1)	0
Selected TRAE						
Endocrine	41 (11.4)	8 (2.2)	0	12 (3.4)	0	0
Gastrointestinal	129 (35.9)	21 (5.8)	0	113 (31.6)	19 (5.3)	0
Hepatic	83 (23.1)	14 (3.9)	1 (0.3)	68 (19.0)	12 (3.4)	0
Hypersensitivity/infusion reaction	48 (13.4)	12 (3.3)	0	26 (7.3)	4 (1.1)	0
Pulmonary	12 (3.3)	4 (1.1)	0	7 (2.0)	1 (0.3)	0
Renal	9 (2.5)	1 (0.3)	0	4 (1.1)	1 (0.3)	0
Skin	134 (37.3)	14 (3.9)	0	86 (24.0)	4 (1.1)	0

Conclusions

- In patients with gastric or GEJ cancer, nivolumab + chemotherapy provided significant improvement in PFS, but not in OS, and had an acceptable safety profile

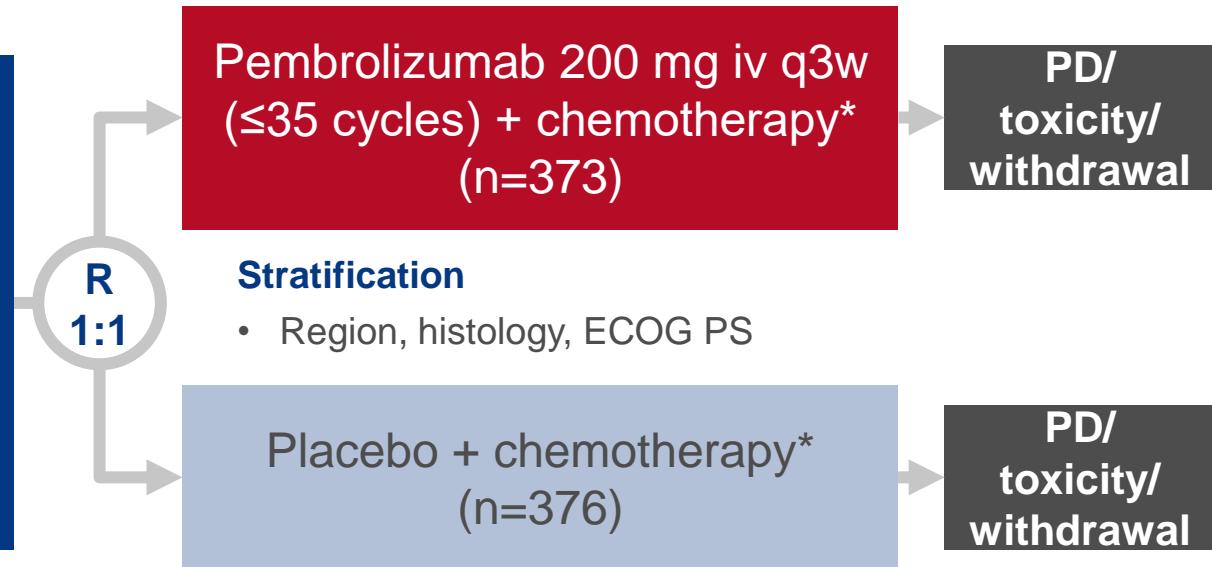
LBA8: Pembrolizumab plus chemotherapy versus chemotherapy as first-line therapy in patients with advanced esophageal cancer: The phase 3 KEYNOTE-590 study – Kato K, et al

Study objective

- To evaluate the safety and efficacy of pembrolizumab + chemotherapy in patients with advanced esophageal cancer

Key patient inclusion criteria

- Locally advanced unresectable or metastatic EAC or ESCC or EGJ Siewert type 1 adenocarcinoma
 - Treatment-naïve
 - ECOG PS 0–1
- (n=749)



CO-PRIMARY ENDPOINTS

- OS and PFS (investigator-assessed, RECIST v1.1)

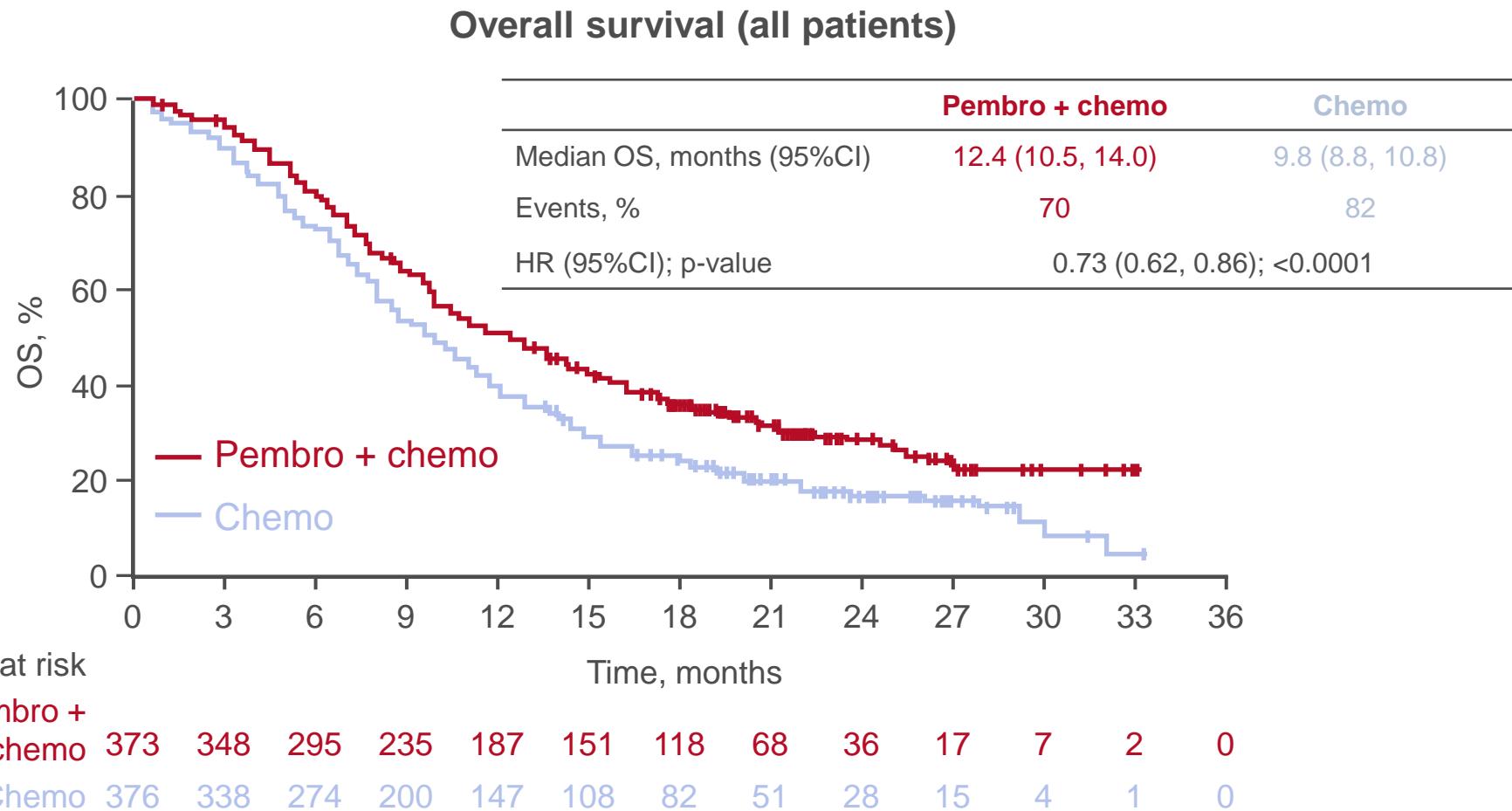
SECONDARY ENDPOINTS

- ORR, safety

*5FU 800 mg/m² iv D1–5 q3w (<=35 cycles) + cisplatin 80 mg/m² (<6 cycles). Data cut-off 02 July 2020.

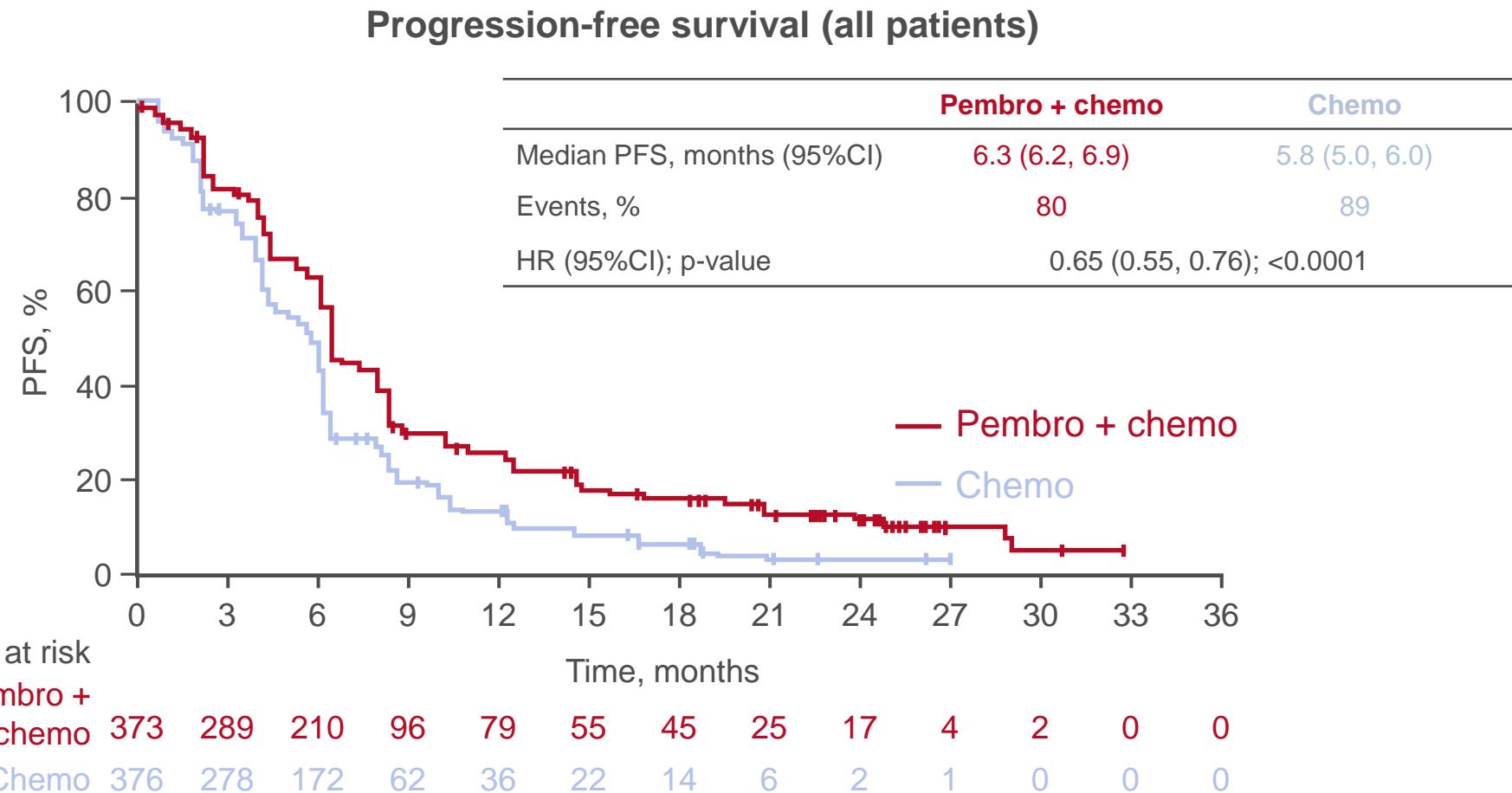
LBA8: Pembrolizumab plus chemotherapy versus chemotherapy as first-line therapy in patients with advanced esophageal cancer: The phase 3 KEYNOTE-590 study – Kato K, et al

Key results



LBA8: Pembrolizumab plus chemotherapy versus chemotherapy as first-line therapy in patients with advanced esophageal cancer: The phase 3 KEYNOTE-590 study – Kato K, et al

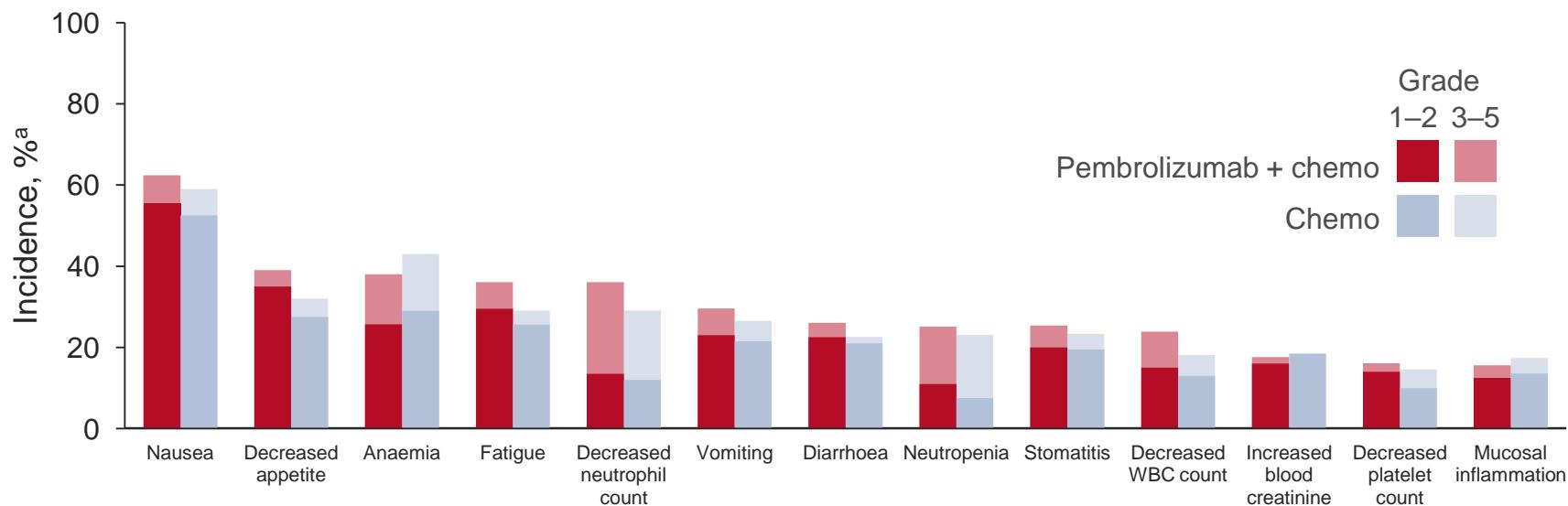
Key results (cont.)



LBA8: Pembrolizumab plus chemotherapy versus chemotherapy as first-line therapy in patients with advanced esophageal cancer: The phase 3 KEYNOTE-590 study – Kato K, et al

Key results (cont.)

AEs, %	Pembrolizumab + chemo (n=370)	Chemo (n=370)
Any AE	100	99.5
TRAE	98.4	97.3
Grade ≥3	71.9	67.6
Led to discontinuation	19.5	11.6
Led to death	2.4	1.4
Immune-mediated and infusion reactions	25.7	11.6
Grade ≥3	7.0	2.2



^a TRAEs occurring in ≥15% of patients in any arm.

LBA8: Pembrolizumab plus chemotherapy versus chemotherapy as first-line therapy in patients with advanced esophageal cancer: The phase 3 KEYNOTE-590 study – Kato K, et al

Conclusion

- In patients with advanced esophageal cancer, 1L pembrolizumab + chemotherapy demonstrated significant improvements in OS, PFS and ORR compared with chemotherapy alone and no new safety signals were observed

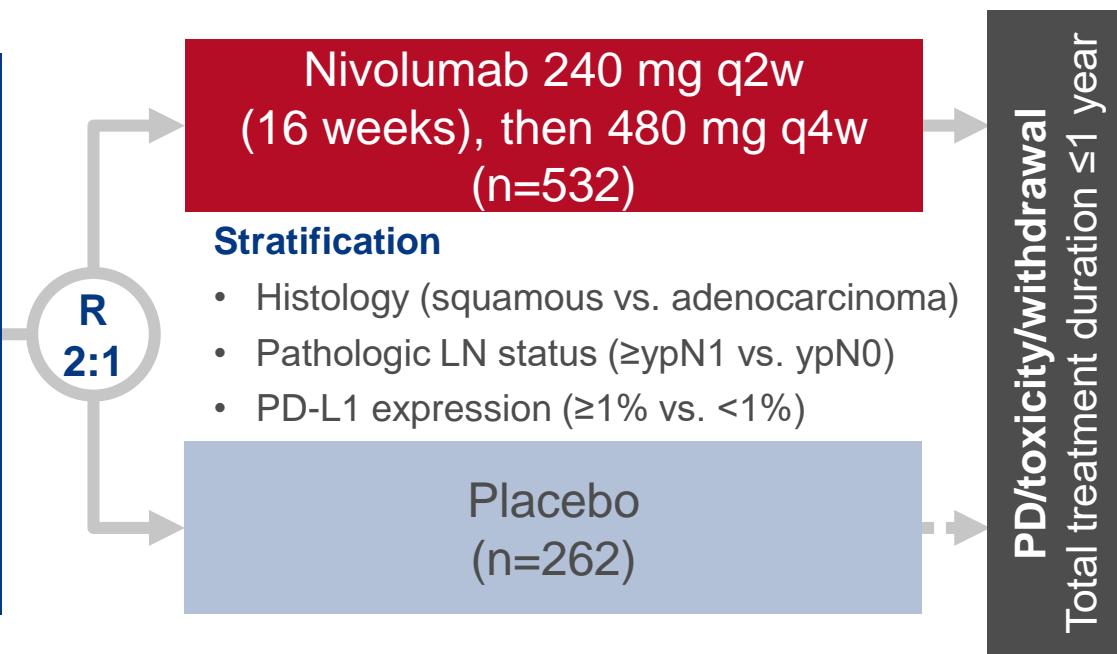
LBA9: Adjuvant nivolumab in resected esophageal or gastroesophageal junction cancer (EC/GEJC) following neoadjuvant chemoradiation therapy (CRT): First results of the CheckMate 577 study – Kelly RJ, et al

Study objective

- To evaluate the safety and efficacy of adjuvant nivolumab in patients with esophageal/GEJ cancer and residual disease after CRT and surgery

Key patient inclusion criteria

- Stage II/III esophageal/GEJ carcinoma
- Neoadjuvant CRT/resection within 4–16 weeks before randomization
- R0; \geq ypT1 or \geq ypN1
- ECOG PS 0–1
(n=794)



PRIMARY ENDPOINT

- DFS

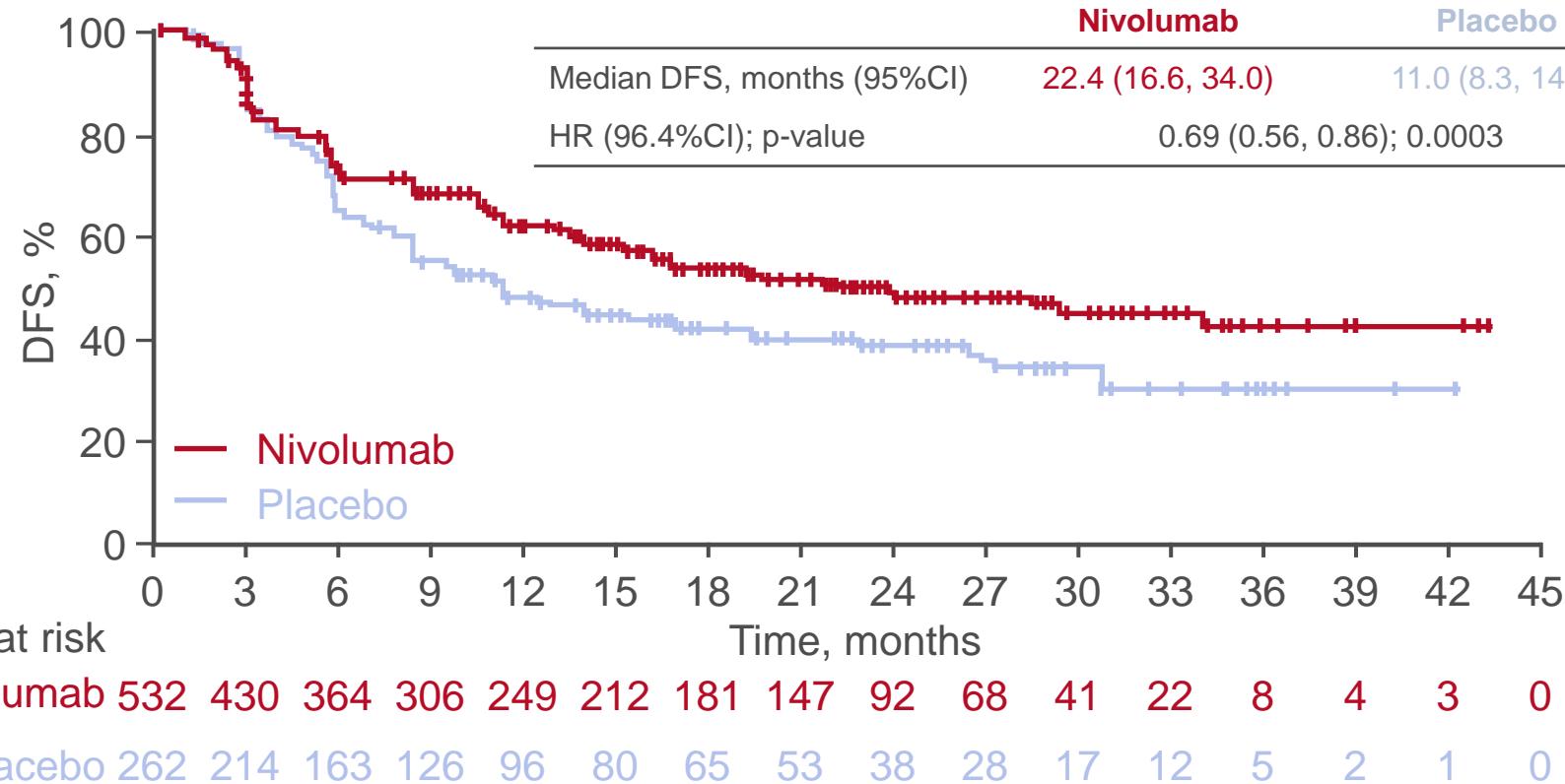
SECONDARY ENDPOINTS

- OS, safety

LBA9: Adjuvant nivolumab in resected esophageal or gastroesophageal junction cancer (EC/GEJC) following neoadjuvant chemoradiation therapy (CRT): First results of the CheckMate 577 study – Kelly RJ, et al

Key results

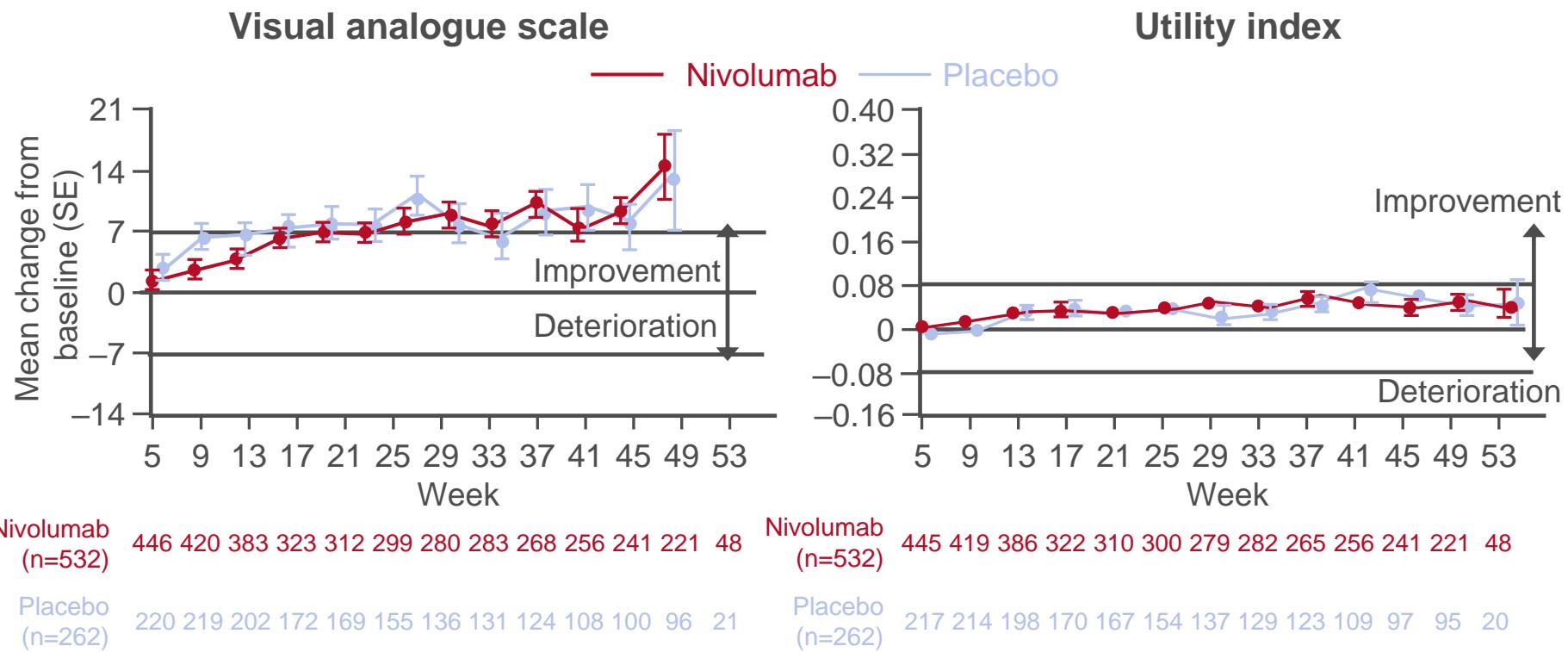
Disease-free survival



LBA9: Adjuvant nivolumab in resected esophageal or gastroesophageal junction cancer (EC/GEJC) following neoadjuvant chemoradiation therapy (CRT): First results of the CheckMate 577 study – Kelly RJ, et al

Key results (cont.)

Overall health status using EQ-5D-3L



LBA9: Adjuvant nivolumab in resected esophageal or gastroesophageal junction cancer (EC/GEJC) following neoadjuvant chemoradiation therapy (CRT): First results of the CheckMate 577 study – Kelly RJ, et al

Key results (cont.)

AEs, n (%)	Nivolumab (n=532)		Placebo (n=260)	
	Any grade	Grade 3–4	Any grade	Grade 3–4
Any AE	510 (96)	183 (34)	243 (93)	84 (32)
Any TRAE	376 (71)	71 (13)	119 (46)	15 (6)
Serious TRAE	40 (8)	29 (5)	7 (3)	3 (1)
TRAE leading to discontinuation	48 (9)	26 (5)	8 (3)	7 (3)
Selected TRAE				
Endocrine	93 (17)	5 (<1)	6 (2)	0
Gastrointestinal	91 (17)	4 (<1)	40 (15)	3 (1)
Hepatic	49 (9)	6 (1)	18 (7)	4 (2)
Pulmonary	23 (4)	6 (1)	4 (2)	1 (<1)
Renal	7 (1)	1 (<1)	2 (<1)	0
Skin	130 (24)	7 (1)	28 (11)	1 (<1)

LBA9: Adjuvant nivolumab in resected esophageal or gastroesophageal junction cancer (EC/GEJC) following neoadjuvant chemoradiation therapy (CRT): First results of the CheckMate 577 study – Kelly RJ, et al

Key results (cont.)

AEs, n (%)	Nivolumab (n=532)		Placebo (n=260)	
	Any grade	Grade 3–4	Any grade	Grade 3–4
TRAEs occurring in ≥10% of patients in either arm				
Fatigue	90 (17)	6 (1)	29 (11)	1 (<1)
Diarrhoea	88 (17)	2 (<1)	39 (15)	2 (<1)
Pruritus	53 (10)	2 (<1)	9 (3)	0
Rash	52 (10)	4 (<1)	10 (4)	1 (<1)

Conclusion

- In patients with esophageal/GEJ carcinoma and pathological residual disease after neoadjuvant CRT and surgery, adjuvant nivolumab demonstrated significant and clinically meaningful improvement in DFS compared with placebo and was generally well-tolerated

1421MO: Final results and subgroup analysis of the PETRARCA randomized phase II AIO trial: Perioperative trastuzumab and pertuzumab in combination with FLOT versus FLOT alone for HER2 positive resectable esophagogastric adenocarcinoma – Al-Batran S-E, et al

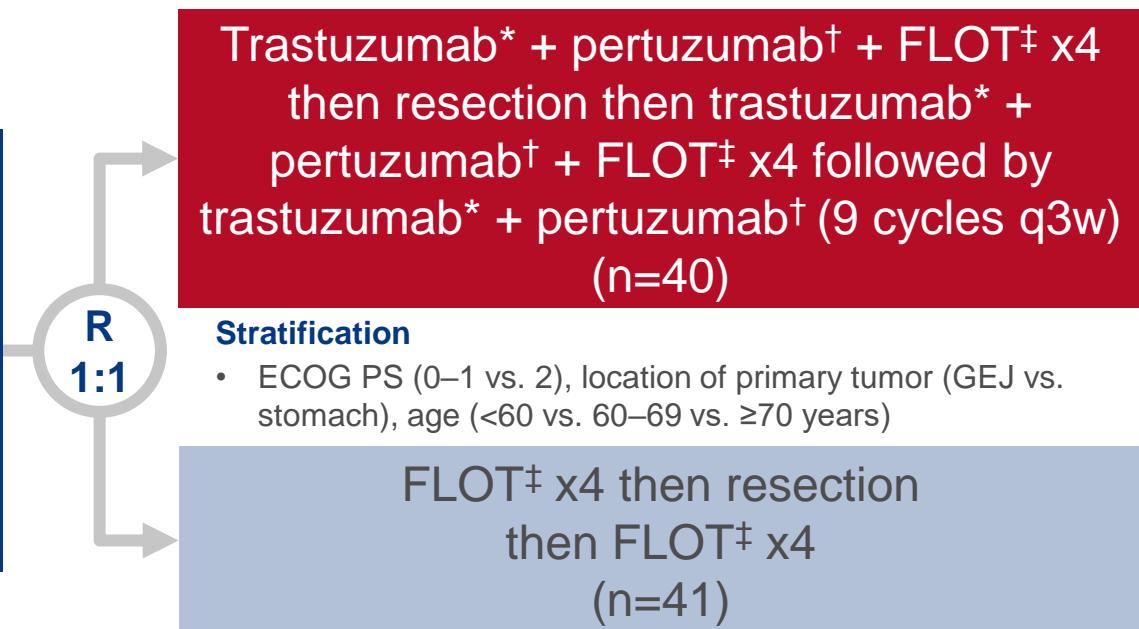
Study objective

- To evaluate the efficacy and safety of trastuzumab + pertuzumab + FLOT in patients with resectable HER2-positive esophagogastric adenocarcinoma

Key patient inclusion criteria

- Resectable esophagogastric adenocarcinoma (cT2–4, cN any, cM0 or T any, cN+, cM0)
- HER2-positive
- ECOG PS ≤2

(n=81)



PRIMARY ENDPOINT

- pCR

SECONDARY ENDPOINTS

- DFS, OS, R0 rate, safety

*Trastuzumab 8 (loading)/6 mg/kg D1, 22, 43; †pertuzumab 840 mg D1, 22, 43; ‡docetaxel 50 mg/m² + oxaliplatin 85 mg/m² + leucovorin 200 mg/m² + 5FU 2600 mg/m² D1, 15, 29, 43

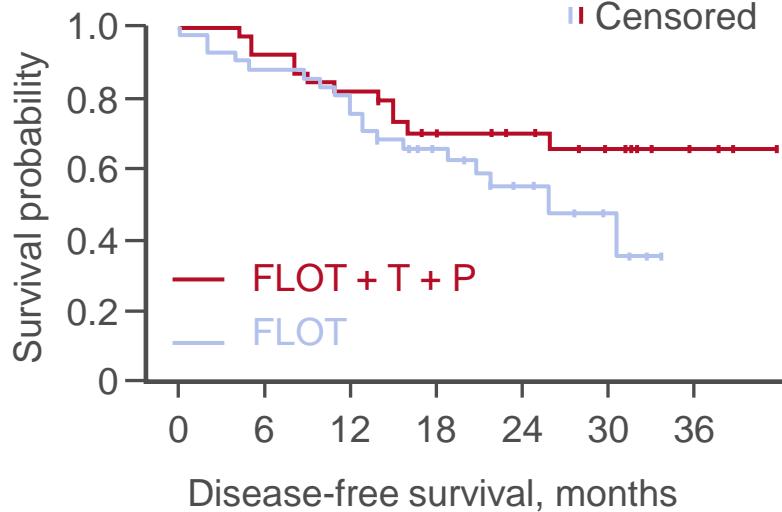
1421MO: Final results and subgroup analysis of the PETRARCA randomized phase II AIO trial: Perioperative trastuzumab and pertuzumab in combination with FLOT versus FLOT alone for HER2 positive resectable esophagogastric adenocarcinoma – Al-Batran S-E, et al

Key results

Outcome, n (%)	Trastuzumab + pertuzumab + FLOT (n=40)	FLOT (n=41)
≤T1	17 (43)	11 (27)
T2	8 (20)	9 (22)
T3	14 (29)	17 (41)
T4	0 (0)	3 (7)
N0	27 (68)	16 (39)
R0 rate (ITT)	37 (93)	37 (90)
pCR	14 (35)	5 (12)
p-value	0.02	

	FLOT + T + P	FLOT
DFS, months (95%CI)	NR	26 (13, NR)
HR (95%CI); p-value	0.576 (0.278, 1.139); p=0.14	

Median follow-up: 22 months



1421MO: Final results and subgroup analysis of the PETRARCA randomized phase II AIO trial: Perioperative trastuzumab and pertuzumab in combination with FLOT versus FLOT alone for HER2 positive resectable esophagogastric adenocarcinoma – Al-Batran S-E, et al

Key results (cont.)

Grade ≥3 AEs, n (%)	Trastuzumab + pertuzumab + FLOT (n=39)	FLOT (n=40)
Any	33 (85)	30 (75)
Leukopenia	9 (23)	5 (13)
Diarrhea	16 (41)	2 (5)
Fatigue	9 (23)	6 (15)

Conclusions

- In patients with resectable esophagogastric adenocarcinoma, adding trastuzumab + pertuzumab to FLOT provided significant improvement in the pCR, but not R0 resection
- There was a higher incidence of AEs in the combination arm

1423MO: End-of-study analysis from JACOB: a phase III study of pertuzumab (P) + trastuzumab (H) and chemotherapy (CT) in HER2-positive metastatic gastric or gastro-esophageal junction cancer (mGC/GEJC)

– Tabernero J, et al

Study objective

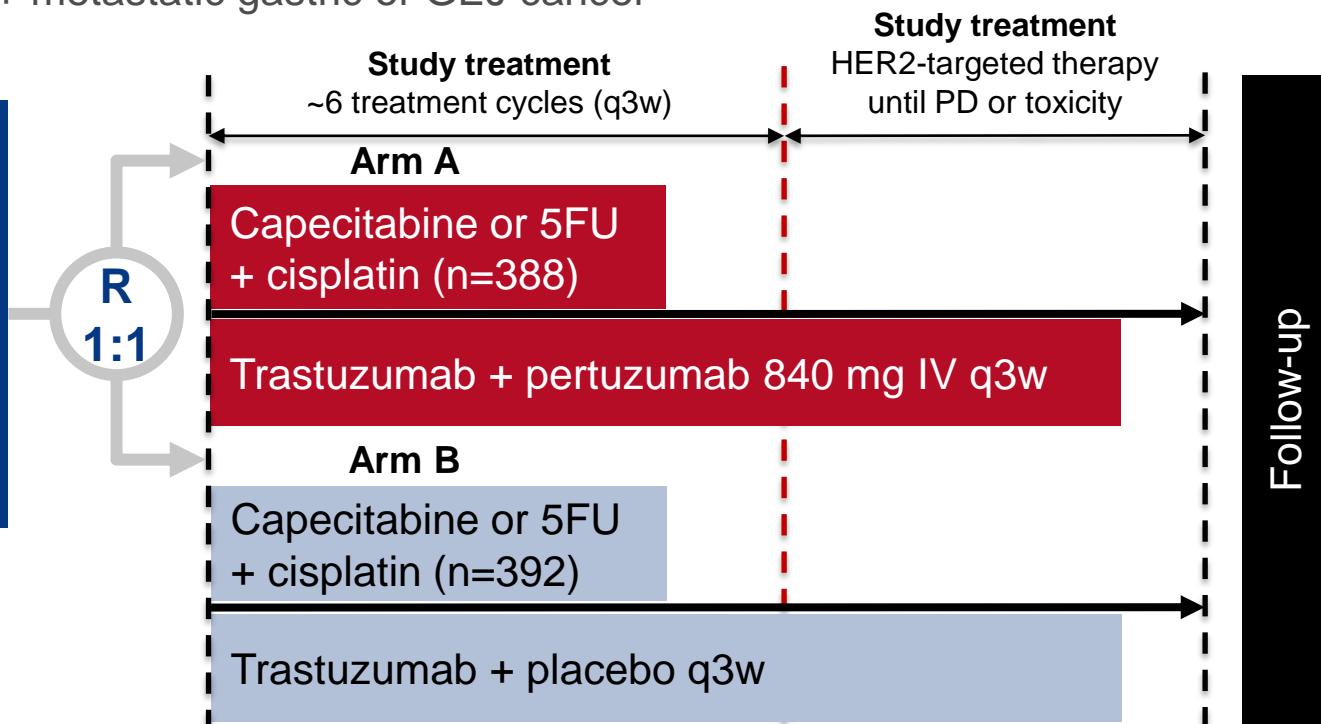
- To evaluate the efficacy and safety of adding pertuzumab to trastuzumab + chemotherapy in patients with HER2+ metastatic gastric or GEJ cancer

Key patient inclusion criteria

- 1L HER2+ metastatic gastric or GEJ cancer
- ECOG PS 0–1 (n=780)

Stratification

- Geographical region
- Prior gastrectomy
- HER2



PRIMARY ENDPOINT

- OS

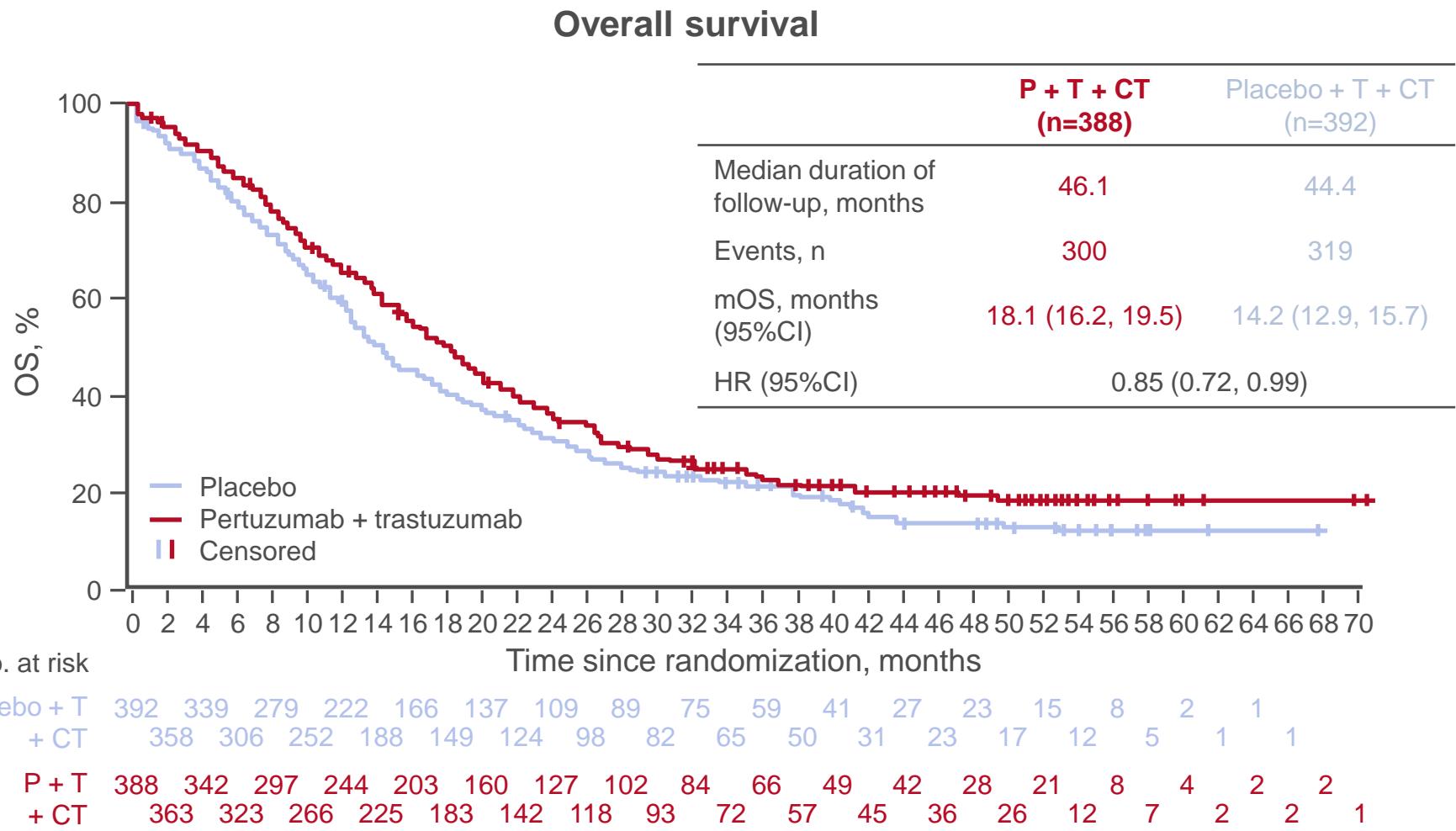
SECONDARY ENDPOINTS

- PFS, ORR, DoR, CBR, PK, QoL, safety

1423MO: End-of-study analysis from JACOB: a phase III study of pertuzumab (P) + trastuzumab (H) and chemotherapy (CT) in HER2-positive metastatic gastric or gastro-esophageal junction cancer (mGC/GEJC)

– Tabernero J, et al

Key results



1423MO: End-of-study analysis from JACOB: a phase III study of pertuzumab (P) + trastuzumab (H) and chemotherapy (CT) in HER2-positive metastatic gastric or gastro-esophageal junction cancer (mGC/GEJC)

– Tabernero J, et al

Key results (cont.)

Secondary endpoints	P + T + CT (n=388)	Placebo + T + CT (n=392)
Events, n	342	353
Median PFS, months (95%CI)	8.5 (8.3, 9.7)	7.2 (6.4, 8.2)
Stratified HR (95%CI)		0.73 (0.62, 0.85)
Baseline measurable disease	n=351	n=352
ORR, % (CR + PR)	57.0	48.6
Median DoR, months (95%CI)	n=203 10.2 (8.5, 12.0)	n=175 8.4 (6.8, 9.1)

1423MO: End-of-study analysis from JACOB: a phase III study of pertuzumab (P) + trastuzumab (H) and chemotherapy (CT) in HER2-positive metastatic gastric or gastro-esophageal junction cancer (mGC/GEJC)

– Tabernero J, et al

Key results (cont.)

AEs, n (%)	P + T + CT (n=385)	Placebo + T + CT (n=388)
Any	381 (99.0)	385 (99.2)
All-grade diarrhoea	241 (62.6)	139 (35.8)
AEs leading to death	27 (7.0)	31 (8.0)
SAEs	178 (46.2)	156 (40.2)
Grade ≥3 AEs	310 (80.5)	288 (74.2)
Dose modifications		
AEs leading to P/placebo discontinuation	48 (12.5)	46 (11.9)
AEs leading to P/placebo dose interruption/delay	110 (28.6)	94 (24.2)
Cardiac safety		
Symptomatic LVSD/heart failure	3 (0.8)	1 (0.3)
Asymptomatic LVSD/heart failure	20 (5.2)	18 (4.6)

1423MO: End-of-study analysis from JACOB: a phase III study of pertuzumab (P) + trastuzumab (H) and chemotherapy (CT) in HER2-positive metastatic gastric or gastro-esophageal junction cancer (mGC/GEJC)

– Tabernero J, et al

Conclusions

- In previously untreated patients with metastatic gastric or GEJ cancer, adding pertuzumab to trastuzumab and chemotherapy failed to significantly improve OS although risk of death was reduced
- The safety profile of P + H + CT was manageable, although there was a higher incidence of all-grade diarrhoea when adding pertuzumab

1424MO: Perioperative FLOT plus ramucirumab versus FLOT alone for resectable esophagogastric adenocarcinoma— Updated results and subgroup analyses of the randomized phase II/III trial RAMSES/FLOT7 of the German AIO and Italian GOIM – Al-Batran S-E, et al

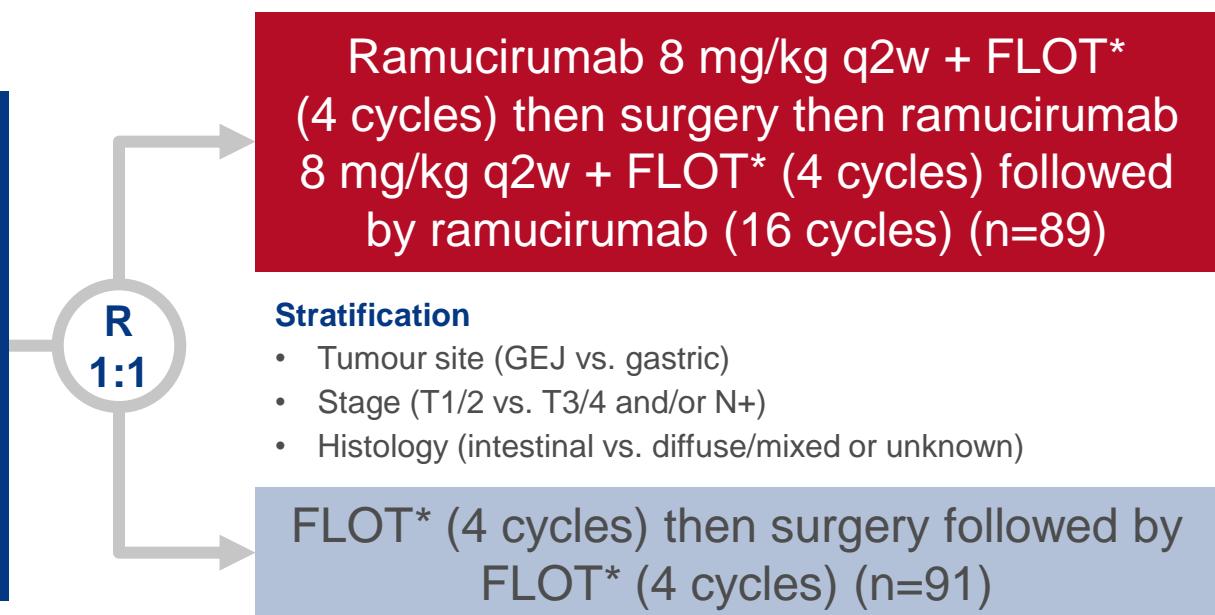
Study objective

- To evaluate the efficacy and safety of perioperative ramucirumab + FLOT in patients with resectable esophagogastric adenocarcinoma

Key patient inclusion criteria

- Resectable gastric or GEJ adenocarcinoma ($\geq cT2$ or $cN+$)
- No distant metastases
- HER2 negative
- ECOG PS ≤ 1

(n=180)



PRIMARY ENDPOINT

- Response (near or pCR)

SECONDARY ENDPOINTS

- R0 rate, PFS, OS, safety

*Four pre- and postoperative cycles of docetaxel 50 mg/m² + oxaliplatin 85 mg/m² + leucovorin 200 mg/m² + 5FU 2600 mg/m² q2w

1424MO: Perioperative FLOT plus ramucirumab versus FLOT alone for resectable esophagogastric adenocarcinoma— Updated results and subgroup analyses of the randomized phase II/III trial RAMSES/FLOT7 of the German AIO and Italian GOIM – Al-Batran S-E, et al

Key results

Outcome, n (%)	Ramucirumab + FLOT (n=86)	FLOT (n=87)
≤T1	17 (20)	22 (25)
T2	12 (14)	10 (12)
T3	49 (57)	33 (38)
T4	6 (7)	12 (14)
N0	43 (50)	34 (39)
R0 rate, %	97	83
p-value		0.0049
R0 rate in subgroups, %		
cT4 (8 of 8 vs. 1 of 4)	100	25
Diffuse type	95	77

1424MO: Perioperative FLOT plus ramucirumab versus FLOT alone for resectable esophagogastric adenocarcinoma— Updated results and subgroup analyses of the randomized phase II/III trial RAMSES/FLOT7 of the German AIO and Italian GOIM – Al-Batran S-E, et al

Conclusion

- In patients with resectable esophagogastric adenocarcinoma, adding ramucirumab to FLOT significantly improved the R0 rate



CANCERS OF THE PANCREAS, SMALL BOWEL AND HEPATOBILIARY TRACT

Cancers of the pancreas, small bowel and hepatobiliary tract

PANCREATIC CANCER

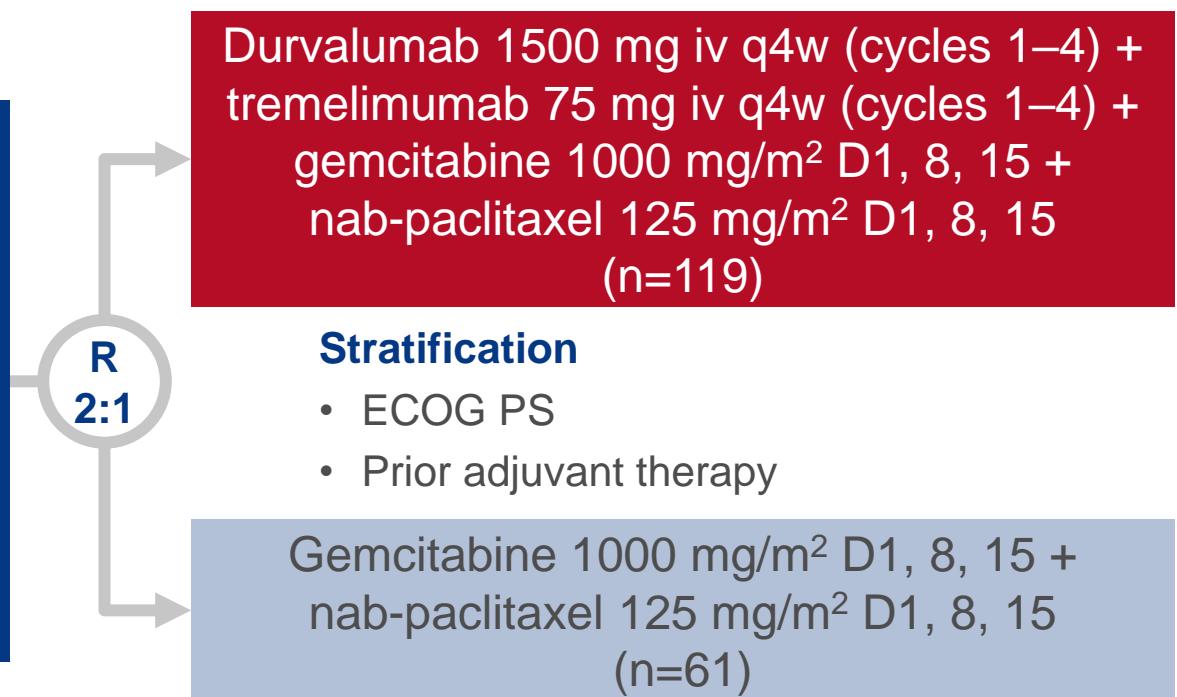
LBA65: The Canadian Cancer Trials Group PA.7 trial: Results of a randomized phase II study of gemcitabine (GEM) and nab-paclitaxel (Nab-P) vs. GEM, Nab-P, durvalumab (D) and tremelimumab (T) as first line therapy in metastatic pancreatic ductal adenocarcinoma (mPDAC) – Renouf DJ, et al

Study objective

- To evaluate the safety and efficacy of immune checkpoint blockade as 1L treatment for patients with metastatic PDAC

Key patient inclusion criteria

- Metastatic PDAC
- No prior therapy with PD-(L)1 or CTLA-4 blockade
- No symptomatic or uncontrolled brain metastases
- ECOG PS 0–1
(n=180)



PRIMARY ENDPOINT

- OS

Data cut-off 15 March 2020.

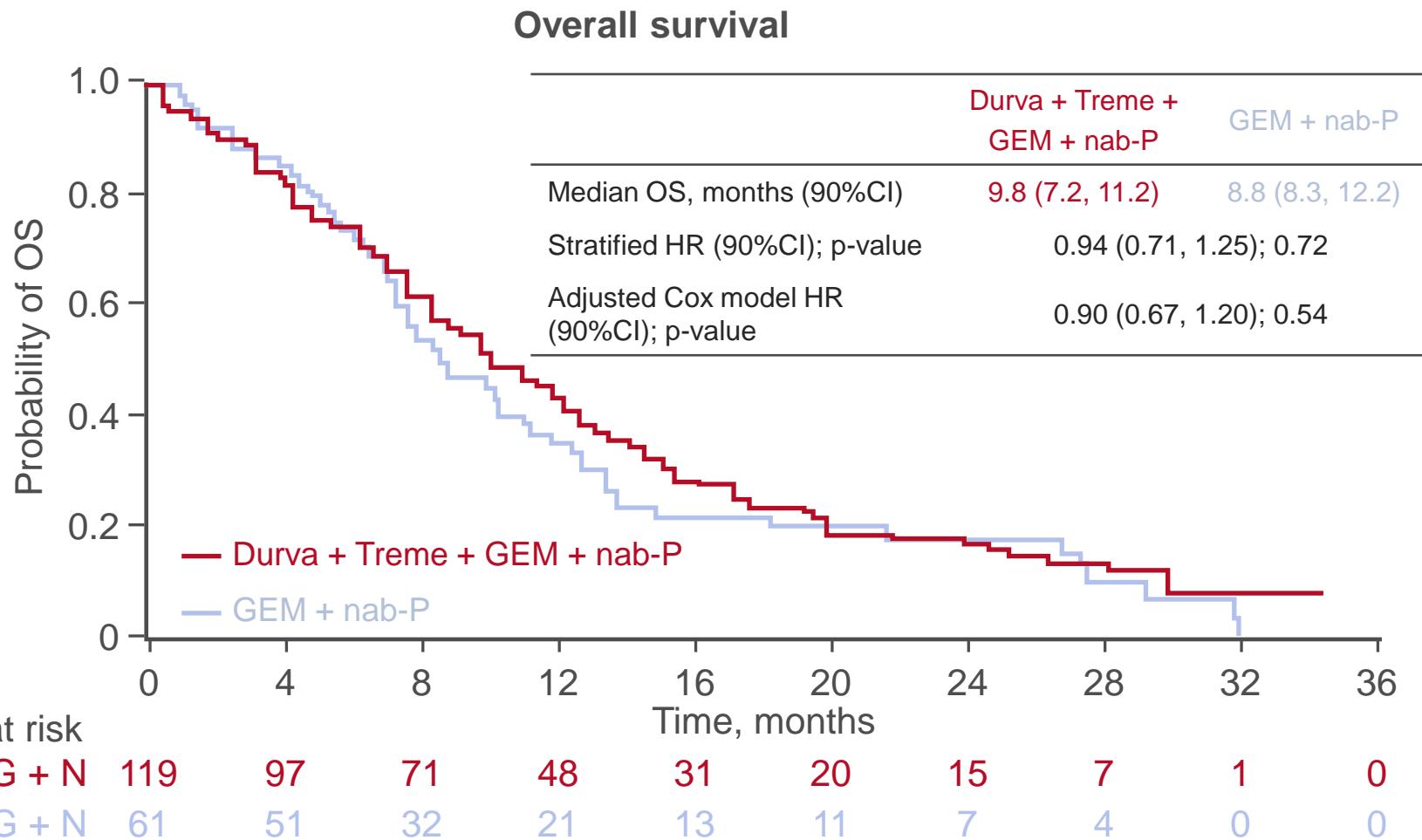
SECONDARY ENDPOINTS

- PFS, ORR, safety

Renouf DJ, et al. Ann Oncol 2020;31(suppl):abstr LBA65

LBA65: The Canadian Cancer Trials Group PA.7 trial: Results of a randomized phase II study of gemcitabine (GEM) and nab-paclitaxel (Nab-P) vs. GEM, Nab-P, durvalumab (D) and tremelimumab (T) as first line therapy in metastatic pancreatic ductal adenocarcinoma (mPDAC) – Renouf DJ, et al

Key results



LBA65: The Canadian Cancer Trials Group PA.7 trial: Results of a randomized phase II study of gemcitabine (GEM) and nab-paclitaxel (Nab-P) vs. GEM, Nab-P, durvalumab (D) and tremelimumab (T) as first line therapy in metastatic pancreatic ductal adenocarcinoma (mPDAC) – Renouf DJ, et al

Key results (cont.)

AEs occurring in ≥10% of patients in either arm, n (%)	Durva + Treme + GEM + nab-P (n=119)	GEM + nab-P (n=58)
Any grade ≥3 AE	100 (84)	44 (76)
Fatigue	24 (20)	12 (21)
Thromboembolic event	16 (15)	7 (12)
Sepsis	13 (11)	7 (12)
Peripheral sensory neuropathy	13 (11)	4 (7)
Diarrhoea	6 (5)	6 (10)
Abdominal pain	6 (5)	6 (10)

Conclusion

- In patients with metastatic PDAC, adding durvalumab and tremelimumab to gemcitabine and nab-paclitaxel did not provide any significant improvement in OS, PFS or ORR, although there was a non-significant trend to improved DCR

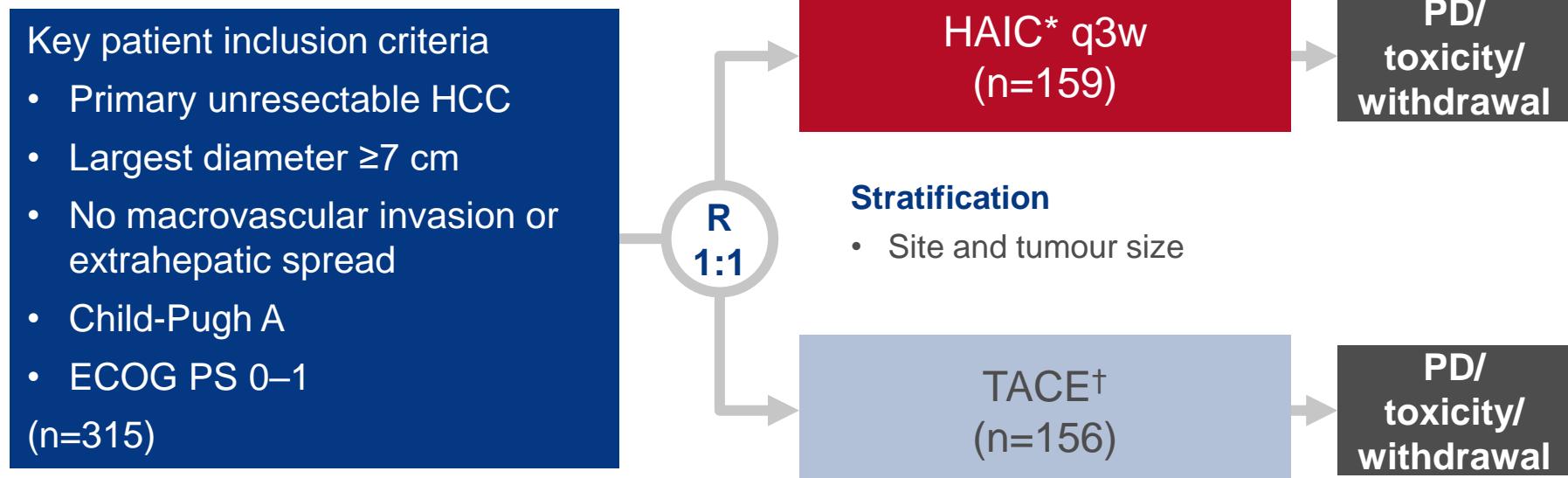
Cancers of the pancreas, small bowel and hepatobiliary tract

HEPATOCELLULAR CARCINOMA

981O: Hepatic arterial infusion chemotherapy (HAIC) with oxaliplatin, fluorouracil, and leucovorin (FOLFOX) versus transarterial chemoembolization (TACE) for unresectable hepatocellular carcinoma (HCC): a randomised phase 3 trial – Shi M, et al

Study objective

- To evaluate the safety and efficacy of HAIC compared with TACE in patients with unresectable HCC



PRIMARY ENDPOINT

- OS

SECONDARY ENDPOINTS

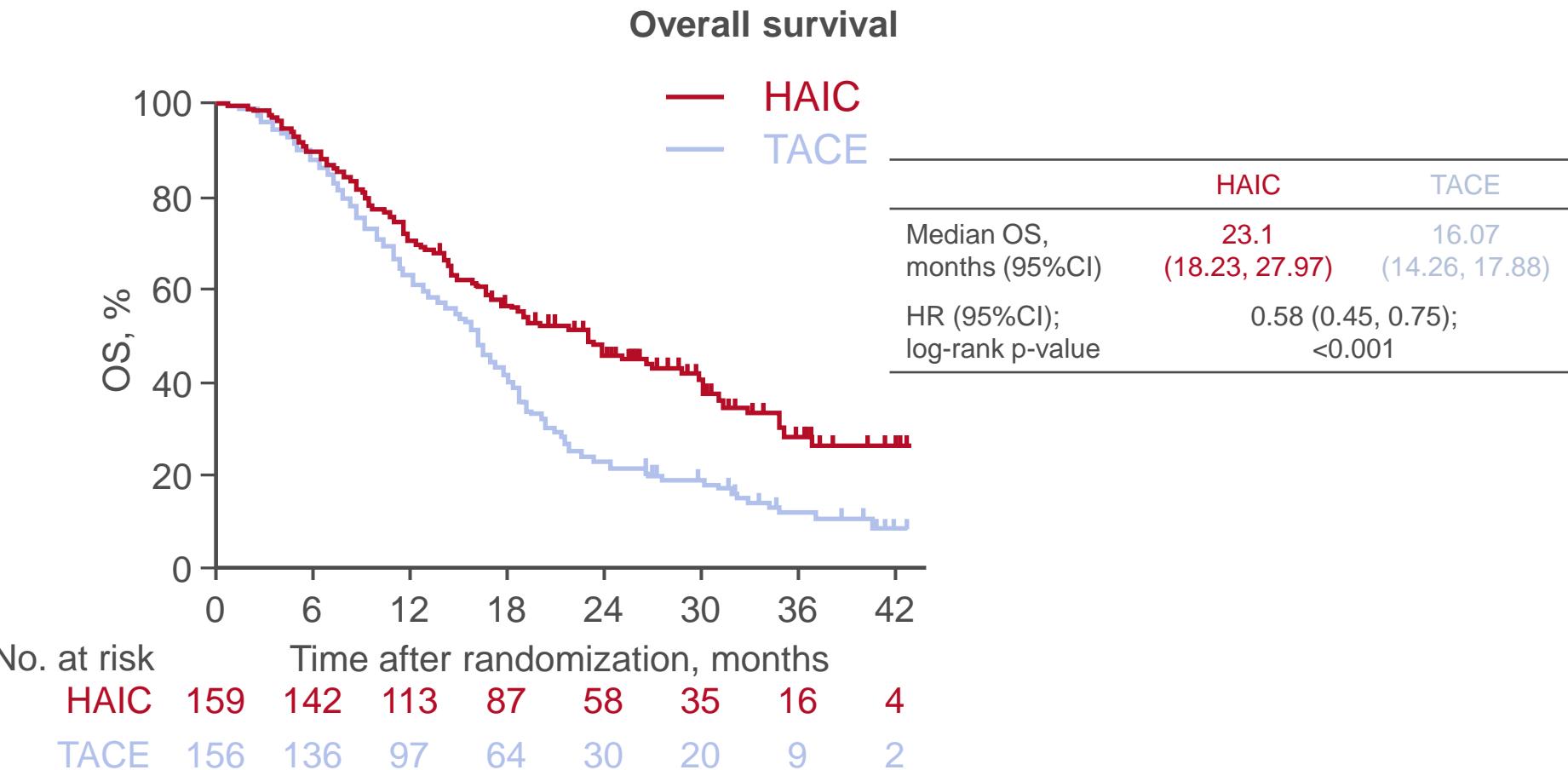
- PFS, ORR, safety

*Oxaliplatin 130 mg/m², leucovorin 400 mg/m², FU bolus 400 mg/m² then FU infusion 2400 mg/m² 24 hours (up to 6 cycles); †epirubicin 50 mg, lobaplatin 50 mg mixed with lipiodol/polyvinyl alcohol particles.
Data cut-off April 2020; follow-up is ongoing.

Shi M, et al. Ann Oncol 2020;31(suppl):abstr 981O

981O: Hepatic arterial infusion chemotherapy (HAIC) with oxaliplatin, fluorouracil, and leucovorin (FOLFOX) versus transarterial chemoembolization (TACE) for unresectable hepatocellular carcinoma (HCC): a randomised phase 3 trial – Shi M, et al

Key results



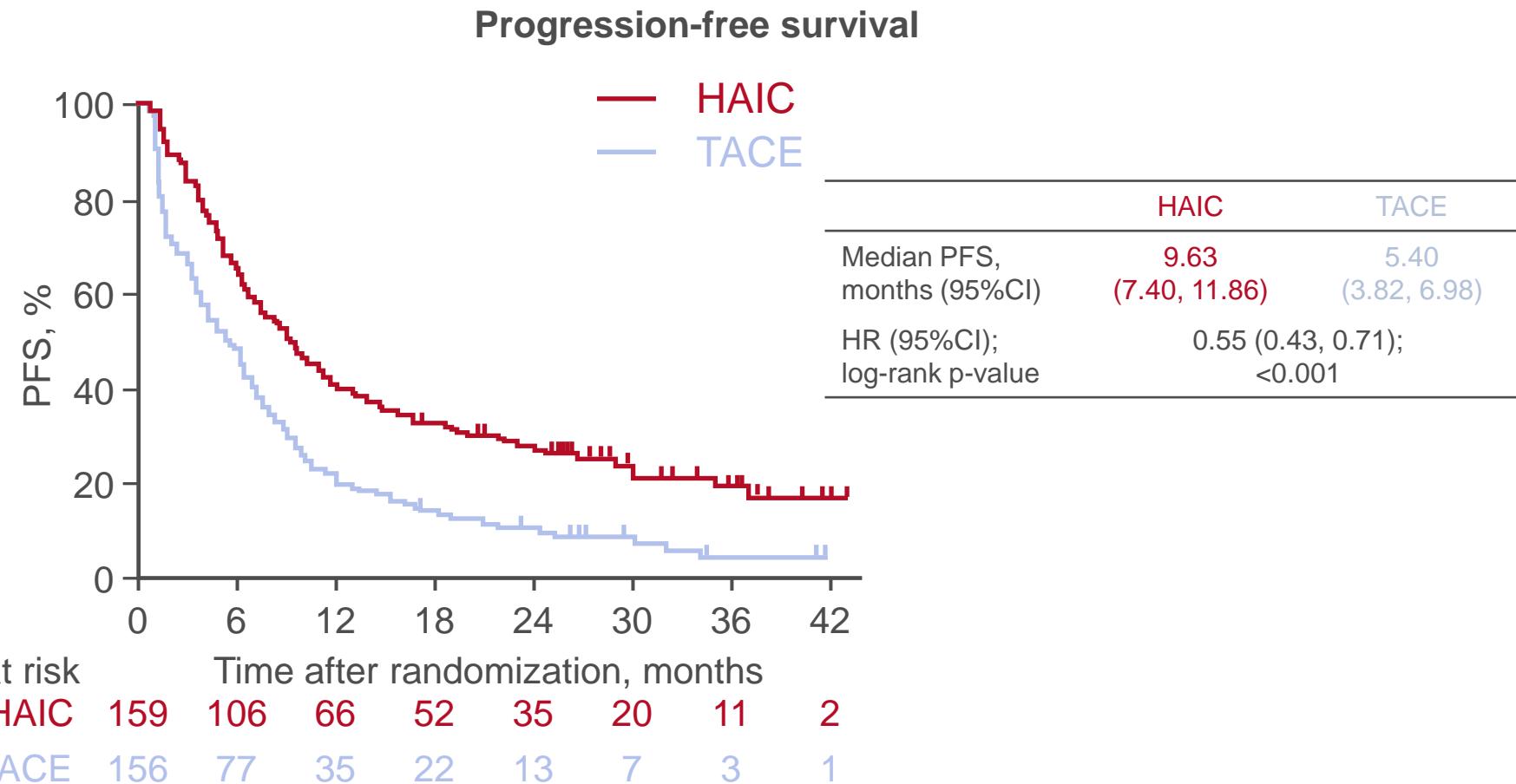
981O: Hepatic arterial infusion chemotherapy (HAIC) with oxaliplatin, fluorouracil, and leucovorin (FOLFOX) versus transarterial chemoembolization (TACE) for unresectable hepatocellular carcinoma (HCC): a randomised phase 3 trial – Shi M, et al

Key results (cont.)

	RECIST		mRECIST	
	HAIC (n=159)	TACE (n=156)	HAIC (n=159)	TACE (n=156)
ORR, % (95%CI)	73 (45.9)	28 (17.9)	77 (48.4)	51 (32.7)
	p<0.001		p=0.004	
BOR, n (%)				
CR	0 (0)	0 (0)	20 (12.6)	5 (3.2)
PR	73 (45.9)	28 (17.9)	57 (35.8)	46 (29.5)
SD	58 (36.5)	67 (42.9)	54 (34.0)	51 (32.7)
PD	20 (12.6)	49 (31.4)	20 (12.6)	44 (28.2)
NA	8 (5.0)	10 (6.4)	8 (5.0)	10 (6.4)
DCR, % (95%CI)	141 (88.7)	95 (60.9)	141 (88.7)	102 (65.4)
	p<0.001		p<0.001	

981O: Hepatic arterial infusion chemotherapy (HAIC) with oxaliplatin, fluorouracil, and leucovorin (FOLFOX) versus transarterial chemoembolization (TACE) for unresectable hepatocellular carcinoma (HCC): a randomised phase 3 trial – Shi M, et al

Key results (cont.)



981O: Hepatic arterial infusion chemotherapy (HAIC) with oxaliplatin, fluorouracil, and leucovorin (FOLFOX) versus transarterial chemoembolization (TACE) for unresectable hepatocellular carcinoma (HCC): a randomised phase 3 trial – Shi M, et al

Key results (cont.)

Serious TRAEs, n (%)	HAIC (n=157)	TACE (n=155)
Any	30 (19)	47 (30)*
Thrombocytopenia	5	1
Neutropenia	3	1
Diarrhoea	2	0
Vomiting	5	6
Renal failure	2	1
Upper GI bleeding	5	7
Ascites	6	10
Cholangitis	1	7
Hyperbilirubinemia	1	8
Infection	1	6
Grade 5	2	2

Conclusion

- In patients with unresectable HCC, HAIC demonstrated significant improvements in OS, PFS and ORR and was associated with fewer serious TRAEs compared with TACE**

*p=0.03.

Shi M, et al. Ann Oncol 2020;31(suppl):abstr 981O

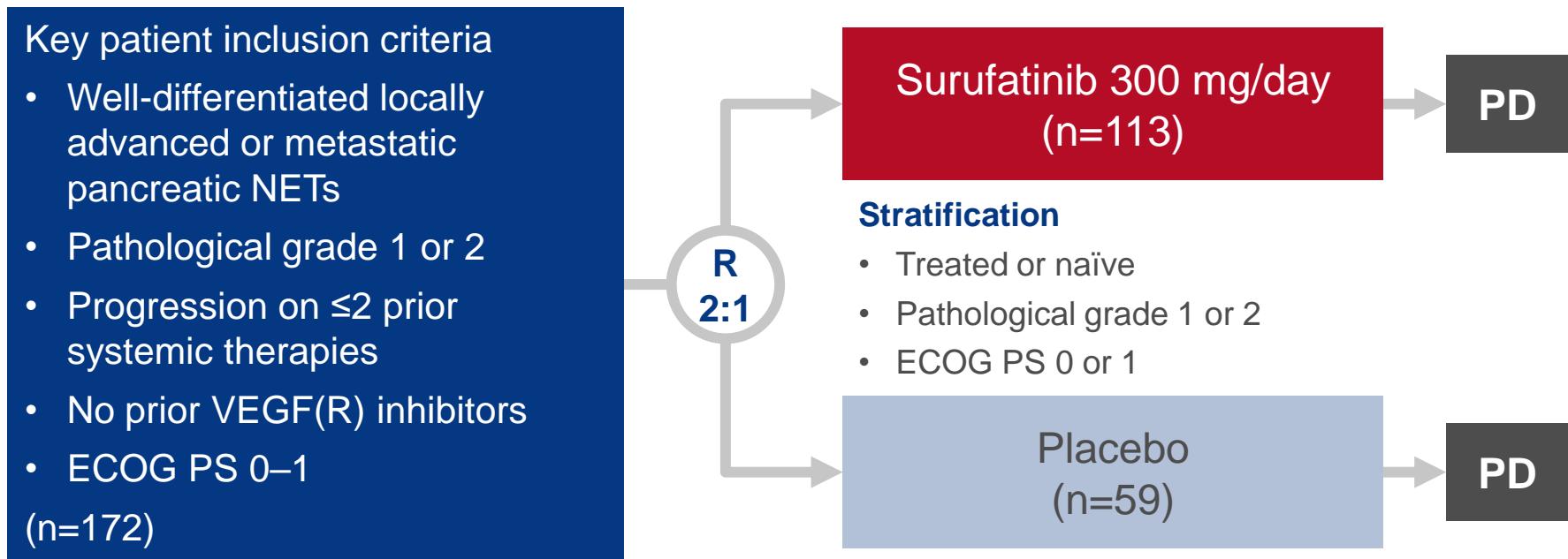
Cancers of the pancreas, small bowel and hepatobiliary tract

NEUROENDOCRINE TUMOUR

1156O: Surufatinib (S) for patients (Pts) with advanced pancreatic neuroendocrine tumors (SANET-p): a randomized, double-blind, placebo (P)-controlled Phase III trial (NCT02589821) – Xu J, et al

Study objective

- To evaluate the efficacy and safety of surufatinib in patients with well-differentiated progressive pancreatic neuroendocrine tumours



PRIMARY ENDPOINT

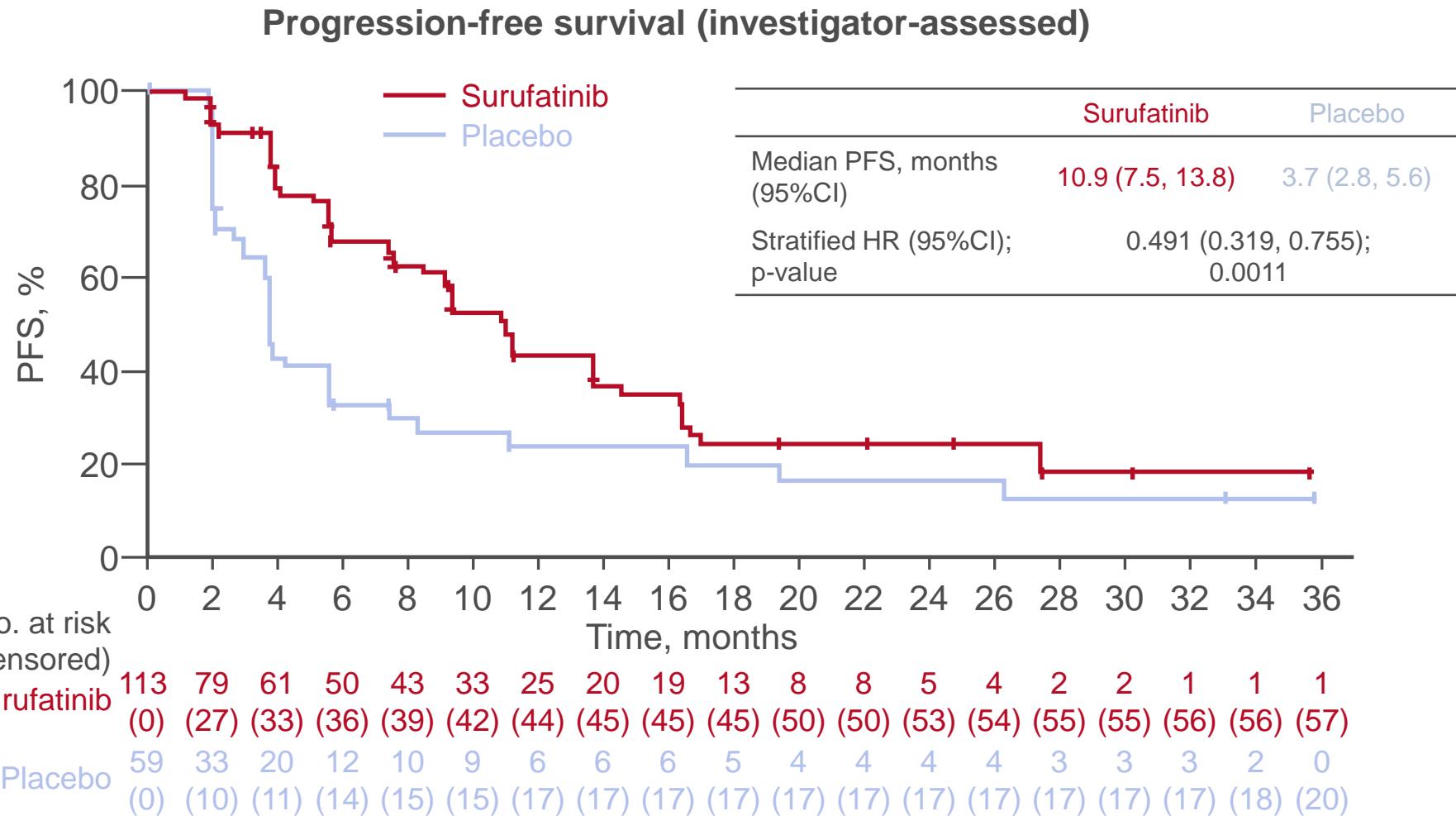
- PFS (investigator-assessed)

SECONDARY ENDPOINTS

- ORR, DCR, DoR, TTR, OS, safety

1156O: Surufatinib (S) for patients (Pts) with advanced pancreatic neuroendocrine tumors (SANET-p): a randomized, double-blind, placebo (P)-controlled Phase III trial (NCT02589821) – Xu J, et al

Key results

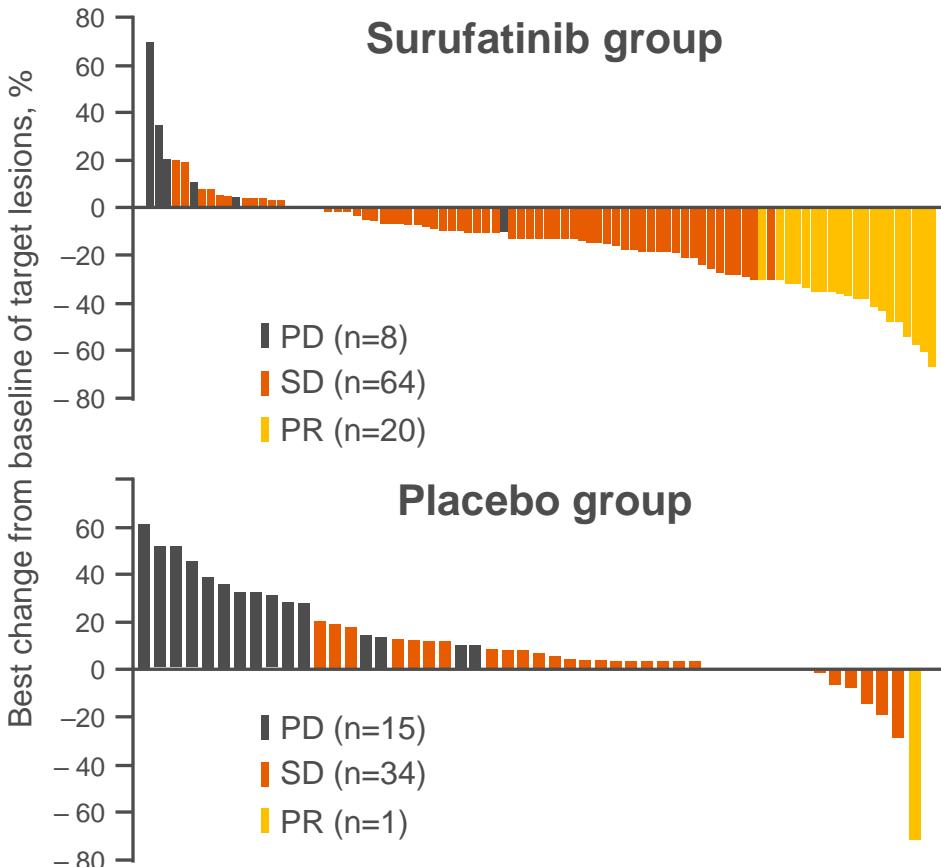


Reprinted from *Lancet Oncol*, Xu J, et al., Surufatinib in advanced pancreatic neuroendocrine tumours (SANET-p): a randomised, double-blind, placebo-controlled, phase 3 study, DOI: 10.1016/S1470-2045(20)30493-9. Copyright 2020, with permission from Elsevier.

Xu J, et al. Ann Oncol 2020;31(suppl):abstr 1156O

1156O: Surufatinib (S) for patients (Pts) with advanced pancreatic neuroendocrine tumors (SANET-p): a randomized, double-blind, placebo (P)-controlled Phase III trial (NCT02589821) – Xu J, et al

Key results (cont.)



	Investigator assessment in iITT ^a	
	Surufatinib (n=104)	Placebo (n=53)
ORR, % (95%CI)	19.2 (12.2, 28.1)	1.9 (0.0, 10.1)
	<i>p</i> =0.0021	
BOR, n (%)		
PR	20 (19.2)	1 (1.9)
SD	64 (61.5)	34 (62.4)
PD	8 (7.7)	16 (30.2)
NE	12 (11.5)	2 (3.8)
DCR, % (95%CI)	80.8 (71.9, 87.8)	66.0 (51.7, 78.5)
	<i>p</i> =0.0774	
TTR, months (95%CI)	3.8 (2.3, 7.3)	7.4 (NR, NR)
DoR, months (95%CI)	7.4 (3.7, NR)	NR

^a Patients who were on treatment, but had not yet received a post-baseline tumour evaluation (n=15) were excluded from the iITT set.

Reprinted from *Lancet Oncol*, Xu J, et al., Surufatinib in advanced pancreatic neuroendocrine tumours (SANET-p): a randomised, double-blind, placebo-controlled, phase 3 study, DOI: 10.1016/S1470-2045(20)30493-9. Copyright 2020, with permission from Elsevier.

Xu J, et al. Ann Oncol 2020;31(suppl):abstr 1156O

1156O: Surufatinib (S) for patients (Pts) with advanced pancreatic neuroendocrine tumors (SANET-p): a randomized, double-blind, placebo (P)-controlled Phase III trial (NCT02589821) – Xu J, et al

Key results (cont.)

AEs, n (%)	Surufatinib (n=113)	Placebo (n=59)
Any TEAE	108 (95.6)	54 (91.5)
Grade 1	5 (4.4)	19 (32.2)
Grade 2	24 (21.2)	19 (32.2)
Grade 3	67 (59.3)	14 (23.7)
Grade 4	9 (8.0)	2 (3.4)
Grade 5	3 (2.7)	0
Any Grade ≥3 TEAE	79 (69.9)	16 (27.1)
Any SAE	29 (25.7)	5 (8.5)
Any TEAE leading to dose interruption	51 (45.1)	14 (23.7)
Any TEAE leading to dose reduction	44 (38.9)	3 (5.1)
Any TEAE leading to dose discontinuation	12 (10.6)	4 (6.8)

1156O: Surufatinib (S) for patients (Pts) with advanced pancreatic neuroendocrine tumors (SANET-p): a randomized, double-blind, placebo (P)-controlled Phase III trial (NCT02589821) – Xu J, et al

Key results (cont.)

Most frequently occurring AEs, n (%)	Surufatinib (n=113)		Placebo (n=59)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Hypertension	75 (66.4)	44 (38.9)	13 (22.0)	5 (8.5)
Proteinuria	74 (65.5)	11 (9.7)	32 (54.2)	1 (1.7)
Diarrhoea	58 (51.3)	5 (4.4)	15 (25.4)	1 (1.7)
Blood thyroid-stimulating hormone increased	49 (43.4)	0	6 (10.2)	0
Hypertriglyceridemia	42 (37.2)	8 (7.1)	9 (15.3)	0
Blood bilirubin increased	42 (37.2)	2 (1.8)	11 (18.6)	0
Hypoalbuminemia	31 (27.4)	0	8 (13.6)	0
Occult blood positive	30 (26.5)	0	14 (23.7)	0
AST increased	27 (23.9)	2 (1.8)	20 (33.9)	1 (1.7)
Abdominal pain	27 (23.9)	2 (1.8)	5 (8.5)	0
Hyperuricemia	24 (21.2)	2 (1.8)	1 (1.7)	0

Conclusion

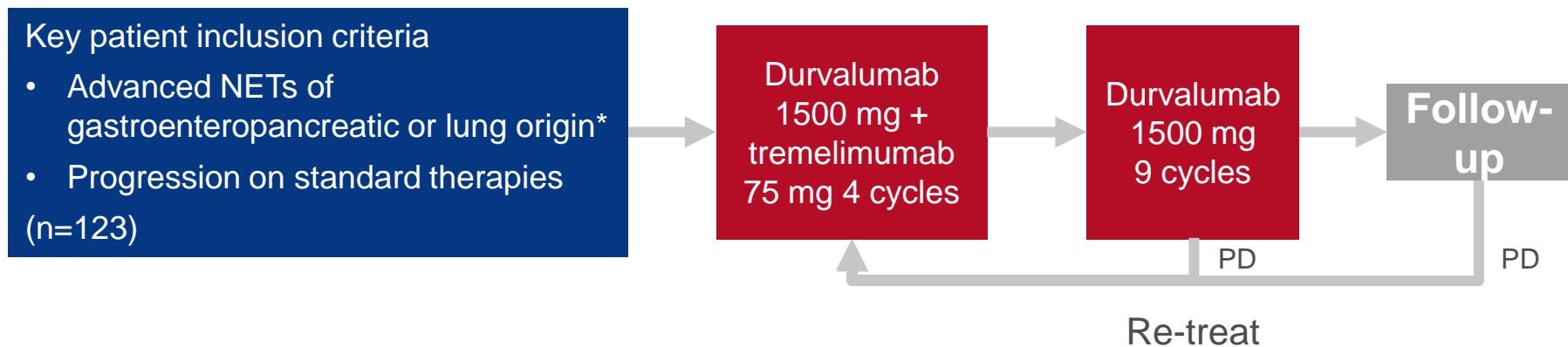
- In patients with advanced NETs, surufatinib demonstrated significant and clinically meaningful improvement in PFS, however, it appears to be relatively toxic with grade ≥3 AEs occurring in two-thirds of cases with less than 10% of the patients over 65 years of age

Xu J, et al. Ann On col 2020;31(suppl):abstr 1156O

1157O: A multi-cohort phase II study of durvalumab plus tremelimumab for the treatment of patients (pts) with advanced neuroendocrine neoplasms (NENs) of gastroenteropancreatic or lung origin: The DUNE trial (GETNE 1601) – Capdevila J, et al

Study objective

- To evaluate the efficacy and safety of immune checkpoint inhibitors in patients with NETs of gastroenteropancreatic or lung origin



PRIMARY ENDPOINT(S)

- Cohort 1–3: 9-month CBR (RECIST v1.1)
- Cohort 4: 9-month OS rate

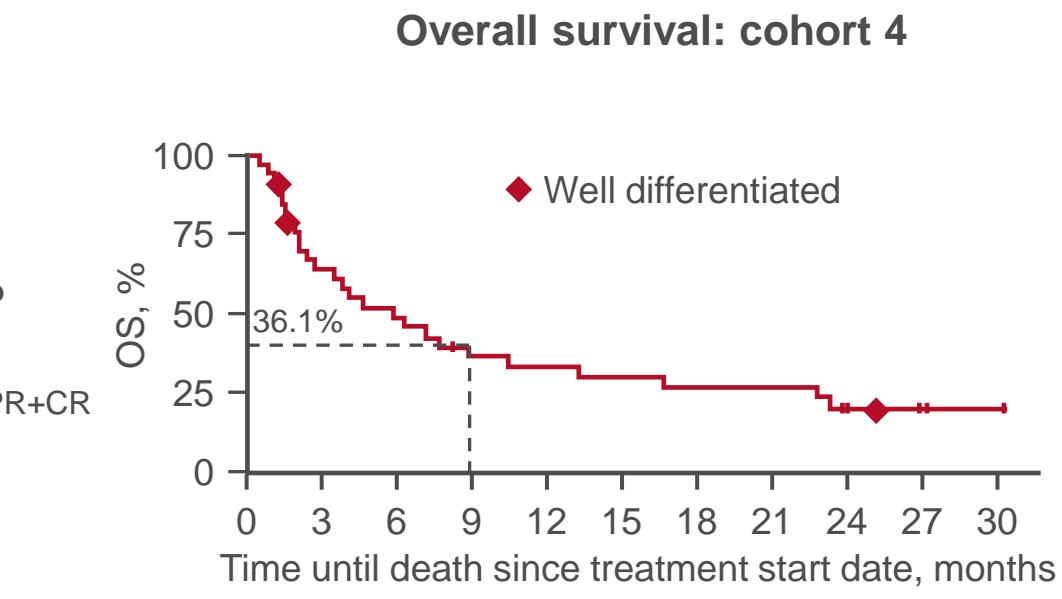
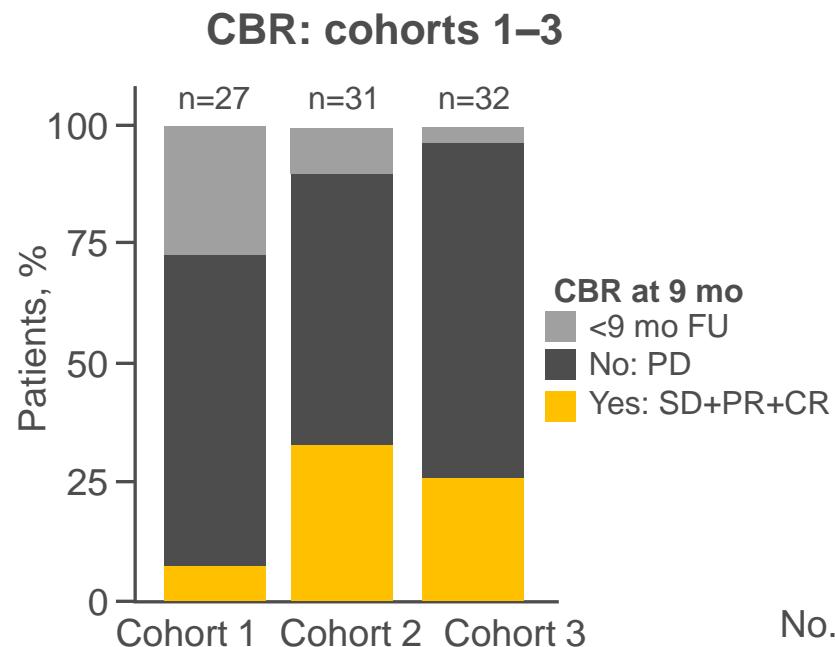
SECONDARY ENDPOINTS

- PFS, OS, ORR, DoR by irRECIST, biomarker analysis

*Cohort 1, lung (n=27); cohort 2, grade 1/2 GI (n=31); cohort 3, grade 1/2 pancreatic (n=32); cohort 4, grade 3 gastroenteropancreatic (n=33)

1157O: A multi-cohort phase II study of durvalumab plus tremelimumab for the treatment of patients (pts) with advanced neuroendocrine neoplasms (NENs) of gastroenteropancreatic or lung origin: The DUNE trial (GETNE 1601) – Capdevila J, et al

Key results



	n	9-month CBR, %
Cohort 1, typical/atypical lung	27	7.4
Cohort 2, grade 1/2 GI	31	32.3
Cohort 3, grade 1/2 pancreatic	32	25

	n	9-month OS rate, % (95%CI)
Cohort 4, grade 3 GEP	33	36.1 (22.9, 57)

1157O: A multi-cohort phase II study of durvalumab plus tremelimumab for the treatment of patients (pts) with advanced neuroendocrine neoplasms (NENs) of gastroenteropancreatic or lung origin: The DUNE trial (GETNE 1601) – Capdevila J, et al

Key results (cont.)

	n	ORR (RECIST), %	ORR (irRECIST), %	PFS, months (95%CI)	AEs, n (%)	All cohorts (n=123)	
						Any grade	Grade ≥3
Cohort 1 Lung	27	0	7.4	5.3 (4.5, 6.1)	Fatigue	53 (43.1)	3 (2.4)
Cohort 2 GI	31	0	0	8.0 (4.9, 11.2)	Diarrhoea	39 (31.7)	8 (6.5)
Cohort 3 Pancreatic	32	6.9	6.3	8.1 (3.8, 12.5)	Pruritus	29 (23.6)	0
Cohort 4 GEP	33	7.2	9.1	2.5 (2.2, 2.8)	Nausea	17 (13.8)	1 (0.8)
					Skin and subcutaneous tissue disorders	11 (8.9)	0
					Hypothyroidism	12 (9.8)	1 (0.8)

Conclusions

- In patients with advanced NETs of GEP or lung origin, durvalumab + tremelimumab demonstrated modest activity with infrequent objective responses
- No new safety signals were identified

1159MO: Survival and prognostic factors analysis of 535 grade 3 gastroenteropancreatic neuroendocrine neoplasm (GEP-NEN): Data from the Spanish Taskforce of Neuroendocrine Tumors Registry (R-GETNE)

– Jiménez-Fonseca P, et al

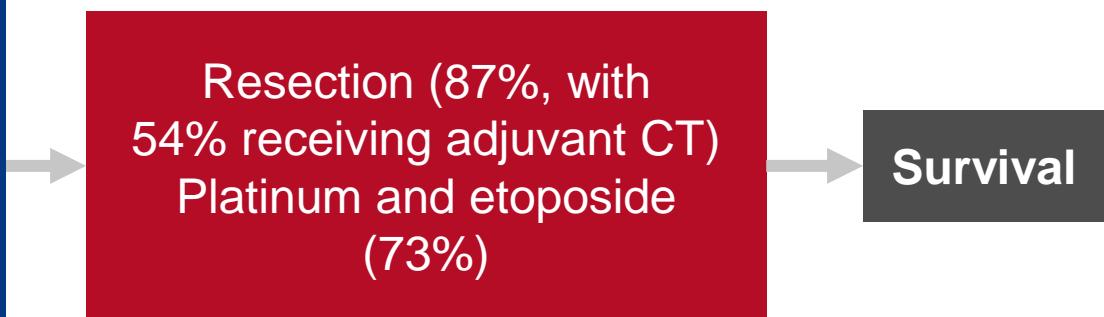
Study objective

- To analyse prognostic factors predicting survival in patients with grade 3 GEP-NETs

Key patient inclusion criteria

- Poorly differentiated neuroendocrine cancer* with Ki-67 index 20%
- Patients diagnosed between 2004 and 2019 at 58 centres included in the Spanish National Cancer Registry of GEP-NEN

(n=535)



PRIMARY ENDPOINT

- OS

*Colorectum (30%), pancreas (24%), unknown (16%), stomach (13%) and small intestine (4%).

1159MO: Survival and prognostic factors analysis of 535 grade 3 gastroenteropancreatic neuroendocrine neoplasm (GEP-NEN): Data from the Spanish Taskforce of Neuroendocrine Tumors Registry (R-GETNE)

– Jiménez-Fonseca P, et al

Key results

- Median follow-up was 4 years; median OS was 14 months

Prognostic factors for OS (multivariate analysis, p<0.05)		HR (95%CI)
Stage		
IV		Reference
I–III		0.43 (0.27, 0.81)
Primary tumour		
Others		Reference
Intestine, pancreas, rectum		0.63 (0.44, 0.92)
ECOG PS		
2		Reference
0–1		0.64 (0.37, 0.77)
Gender		
Male		Reference
Female		0.89 (0.74, 0.95)

1159MO: Survival and prognostic factors analysis of 535 grade 3 gastroenteropancreatic neuroendocrine neoplasm (GEP-NEN): Data from the Spanish Taskforce of Neuroendocrine Tumors Registry (R-GETNE)

– Jiménez-Fonseca P, et al

Conclusions

- In patients with grade 3 gastroenteropancreatic NETs, stage, primary tumour location, performance status and gender were all found to be prognostic factors for survival



CANCERS OF THE COLON, RECTUM AND ANUS

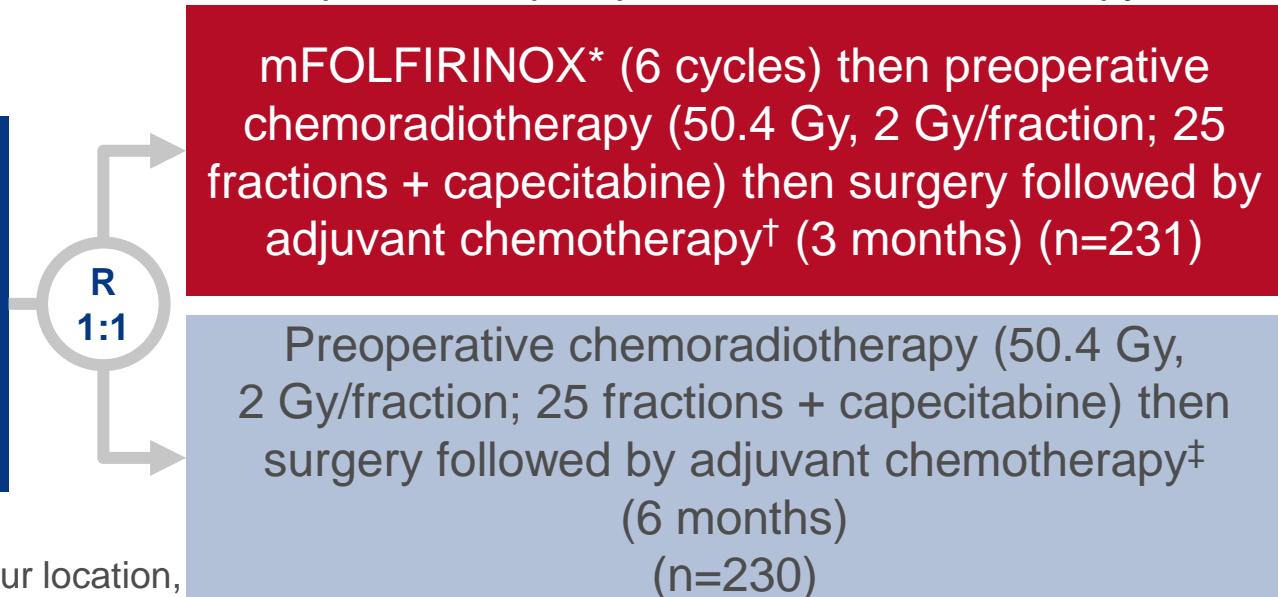
LBA21: Neoadjuvant mFOLFIRINOX and preoperative chemoradiation (CRT) versus preoperative CRT in patients with T3-4 rectal cancer: Surgical and quality of life results of PRODIGE 23 phase III trial – Borg C, et al

Study objective

- To evaluate the surgical outcomes and QoL of patients with locally advanced rectal cancer receiving neoadjuvant mFOLFIRINOX compared with preoperative chemoradiotherapy

Key patient inclusion criteria

- cT3 or cT4, M0 rectal adenocarcinomas <15 cm from anal verge
- WHO PS 0–1
(n=461)



Stratification

- Centre, T stage, N status, tumour location, perirectal fat extramural extension

PRIMARY ENDPOINT

- 3-year DFS

*Oxaliplatin 85 mg/m² + leucovorin 400 mg/m² + irinotecan 180 mg/m² + 5FU 2.4 g/m² over 46 h q2w; †mFOLFOX6, 6 cycles; or capecitabine, 4 cycles; ‡mFOLFOX6, 12 cycles; or capecitabine, 8 cycles

SECONDARY ENDPOINTS

- pCR (ypT0N0) rate, OS, MFS, safety, QoL

LBA21: Neoadjuvant mFOLFIRINOX and preoperative chemoradiation (CRT) versus preoperative CRT in patients with T3-4 rectal cancer: Surgical and quality of life results of PRODIGE 23 phase III trial – Borg C, et al

Key results

3-year DFS

	mFOLFIRINOX (n=231)	Chemoradiotherapy (n=230)
3-year DFS, %	75.7	68.5
HR (95%CI); p-value	0.69 (0.49, 0.97); 0.034	
3-year metastasis-free survival, %	78.8	71.7
HR (95%CI); p-value	0.64 (0.44, 0.93); <0.02	

Pathological results

	mFOLFIRINOX (n=231)	Chemoradiotherapy (n=230)
Underwent surgery, n (%)	218 (94.8)	213 (92.2)
ypN0, %	82.6	67.4
ypT0N0, %	27.8	12.1
Neoadjuvant rectal score	8.4	15

LBA21: Neoadjuvant mFOLFIRINOX and preoperative chemoradiation (CRT) versus preoperative CRT in patients with T3-4 rectal cancer: Surgical and quality of life results of PRODIGE 23 phase III trial – Borg C, et al

Key results (cont.)

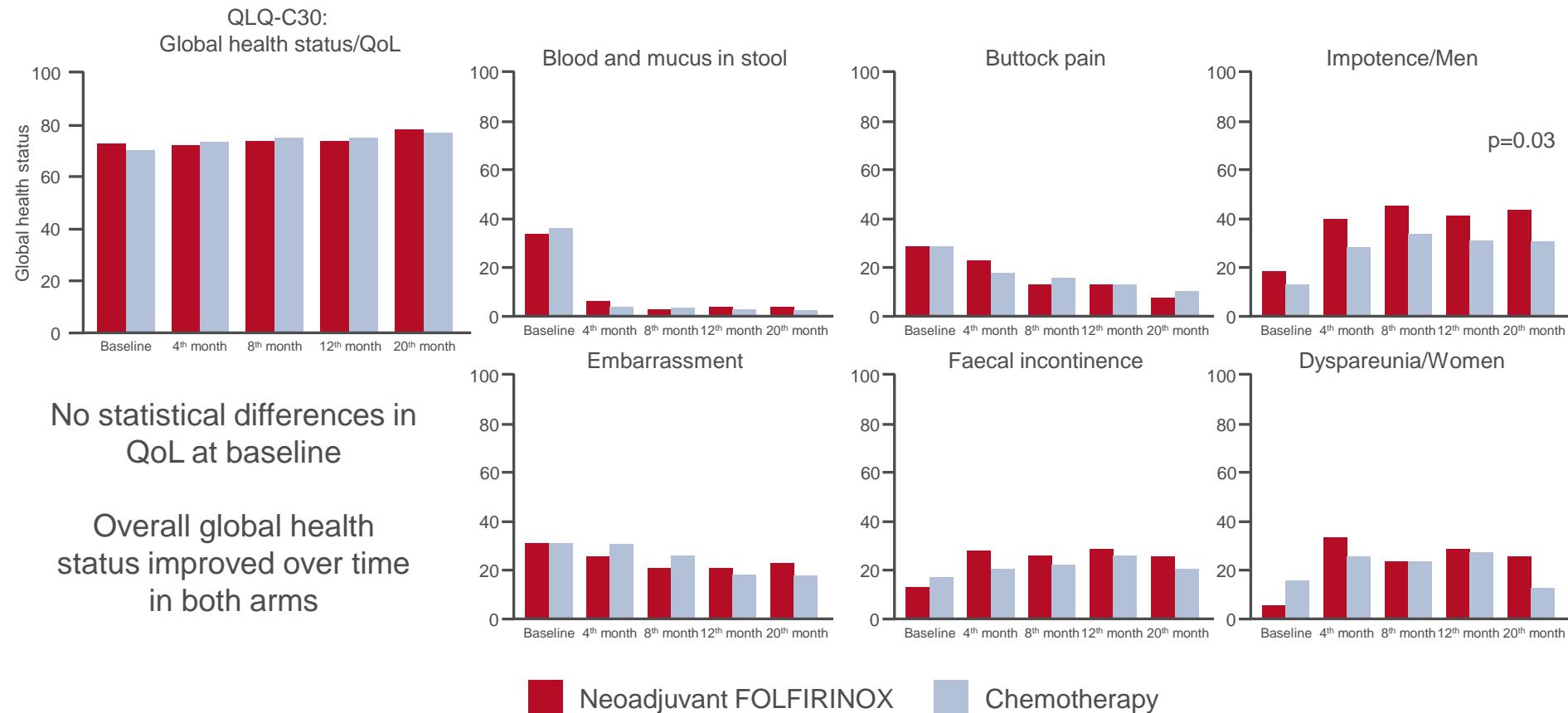
Surgical outcomes	mFOLFIRINOX (n=231)	Chemoradiotherapy (n=230)	p-value
Underwent surgery, n (%)	213 (92.2)	218 (94.8)	0.262
Postoperative morbidity, n (%)	62 (29.3)	67 (31.2)	0.666
Mortality, n (%)			
During hospitalization	0	2 (0.9)	
Postoperative (\leq 30 days)	0	5 (2.3)	0.061
Postoperative (\leq 60 days)	0	6 (2.8)	0.030

Adjuvant treatment	mFOLFIRINOX (n=213)	Chemoradiotherapy (n=218)	p-value
Eligible for adjuvant chemotherapy, n (%)	207 (97.2)	201 (92.2)	0.021
All adjuvant cycles received, n (%)	130 (80.3)	119 (75.3)	0.346
At least 1 administration delayed, n (%)	64 (39.5)	100 (63.3)	<0.001
Grade 3–4 AE, %	44.4	74.1	<0.001
Grade 3–4 neutropenia, %	5.6	18.1	<0.001
Peripheral neuropathy, %	11.7	20.7	0.033

LBA21: Neoadjuvant mFOLFIRINOX and preoperative chemoradiation (CRT) versus preoperative CRT in patients with T3-4 rectal cancer: Surgical and quality of life results of PRODIGE 23 phase III trial – Borg C, et al

Key results (cont.)

Quality of life related to rectal cancer (QLQ-CR29)



LBA21: Neoadjuvant mFOLFIRINOX and preoperative chemoradiation (CRT) versus preoperative CRT in patients with T3-4 rectal cancer: Surgical and quality of life results of PRODIGE 23 phase III trial – Borg C, et al

Conclusions

- In patients with stage II/III rectal cancer, mFOLFORINOX showed a manageable safety profile with no impairment of overall treatment feasibility or tolerance
- In patients receiving neoadjuvant FOLFORINOX, there was less toxicity after surgery or adjuvant chemotherapy reported
- There were no significant differences in the global QoL scores between the two treatment arms

LBA42: POD1UM-202: Phase 2 study of retifanlimab in patients (pts) with squamous carcinoma of the anal canal (SCAC) who progressed following platinum-based chemotherapy – Rao S, et al

Study objective

- To evaluate the efficacy and safety of retifanlimab in patients with SCAC after platinum-based CT

Key patient inclusion criteria

- Locally advanced or metastatic SCAC
 - PD on or after platinum-based CT (≤ 2 lines)
 - HIV+ eligible if CD4+ $\geq 300/\mu\text{L}$ and receiving HAART
 - ECOG PS 0–1
- (n=94)

Retifanlimab 500 mg iv q4w
for up to 2 years

PRIMARY ENDPOINT(S)

- ORR (independent central review, RECIST v1.1)

SECONDARY ENDPOINTS

- DoR, DCR, PFS, OS, safety

LBA42: POD1UM-202: Phase 2 study of retifanlimab in patients (pts) with squamous carcinoma of the anal canal (SCAC) who progressed following platinum-based chemotherapy – Rao S, et al

Key results

Variable	n=94
ORR by independent central review, % (95%CI)	13.8 (7.6, 22.5)
BOR, n (%)	
CR	1 (1.1)
PR	12 (12.8)
SD	33 (35.1)
PD	43 (45.7)
Missing	5 (5.3)
DCR, n (%)	46 (48.9)
Median DoR, months (95%CI)	9.5 (5.6, NE)
Median PFS, months (95%CI)	2.3 (1.9, 3.6)
Median OS, months (95%CI)	10.1 (7.9, NE)

Median follow-up was 7.1 months.

Rao S, et al. Ann Oncol 2020;31(suppl):abstr LBA42

LBA42: POD1UM-202: Phase 2 study of retifanlimab in patients (pts) with squamous carcinoma of the anal canal (SCAC) who progressed following platinum-based chemotherapy – Rao S, et al

Key results (cont.)

AEs, n (%)	n=94
Any TRAE	55 (58.5)
Grade ≥3	11 (11.7)
Led to treatment discontinuation	4 (4.2)
Any immune-related AE	24 (25.5)
Grade ≥3	6 (6.4)
Led to treatment discontinuation	2 (2.1)
Infusion reactions (none were grade ≥3)	4 (4.3)

Conclusion

- In patients with platinum-refractory SCAC, including HIV-positive patients, retifanlimab demonstrated encouraging activity with a safety profile that was consistent with other PD-1 inhibitors

396O: Health-related quality of life (HRQoL) in patients (pts) treated with pembrolizumab (pembro) vs chemotherapy as first-line treatment in microsatellite instability-high (MSI-H) and/or deficient mismatch repair (dMMR) metastatic colorectal cancer (mCRC): Phase 3 KEYNOTE-177 study – André T, et al

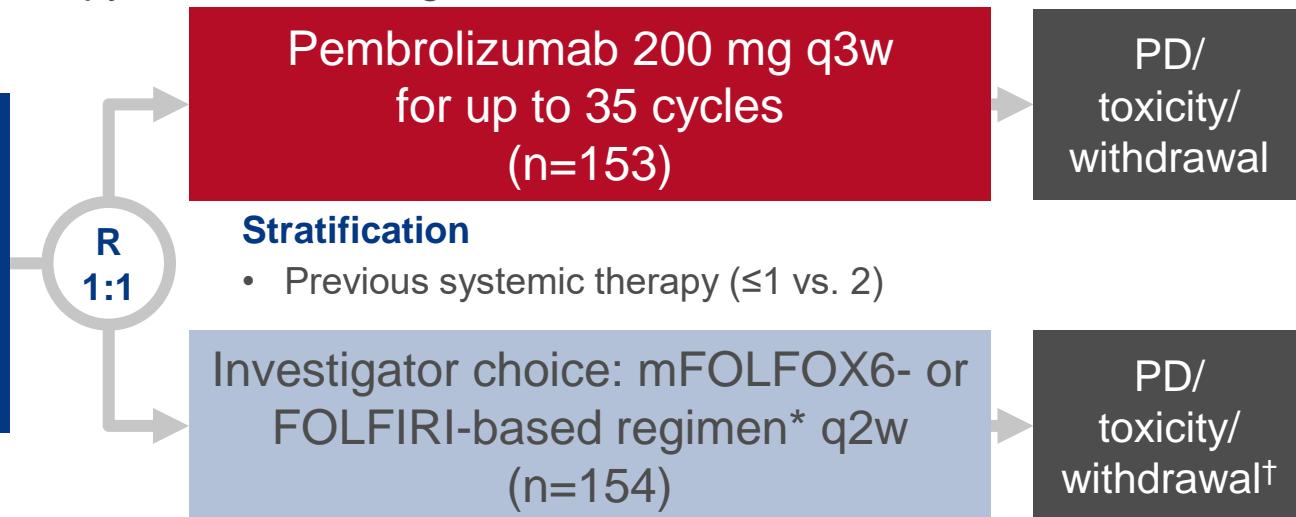
Study objective

- To evaluate the HRQoL of patients with MSI-H/dMMR mCRC receiving pembrolizumab vs. standard of care chemotherapy in the 1L setting

Key patient inclusion criteria

- MSI-H/dMMR mCRC
- Treatment-naïve
- ECOG PS 0–1

(n=307)



CO-PRIMARY ENDPOINTS

- PFS (RECIST v1.1 by BICR), OS

SECONDARY ENDPOINTS

- ORR (RECIST v1.1 by BICR), DoR, TTR, safety

PRESPECIFIED EXPLORATORY ANALYSIS

- Mean score change from baseline to Week 18 in EORTC QLQ-C30, EORTC QLQ-CR29 and EQ-5D-3L
- Time to deterioration in EORTC QLQ-C30 scales

*mFOLFOX6 or FOLFIRI alone or plus bevacizumab 5 mg/kg or plus cetuximab 400 mg/m² over 2 h then 250 mg/m² over 1 h q1w;

†potential for crossover to pembrolizumab for ≤ 35 cycles after PD.

Data cut-off: February 19, 2020.

396O: Health-related quality of life (HRQoL) in patients (pts) treated with pembrolizumab (pembro) vs chemotherapy as first-line treatment in microsatellite instability-high (MSI-H) and/or deficient mismatch repair (dMMR) metastatic colorectal cancer (mCRC): Phase 3 KEYNOTE-177 study – André T, et al

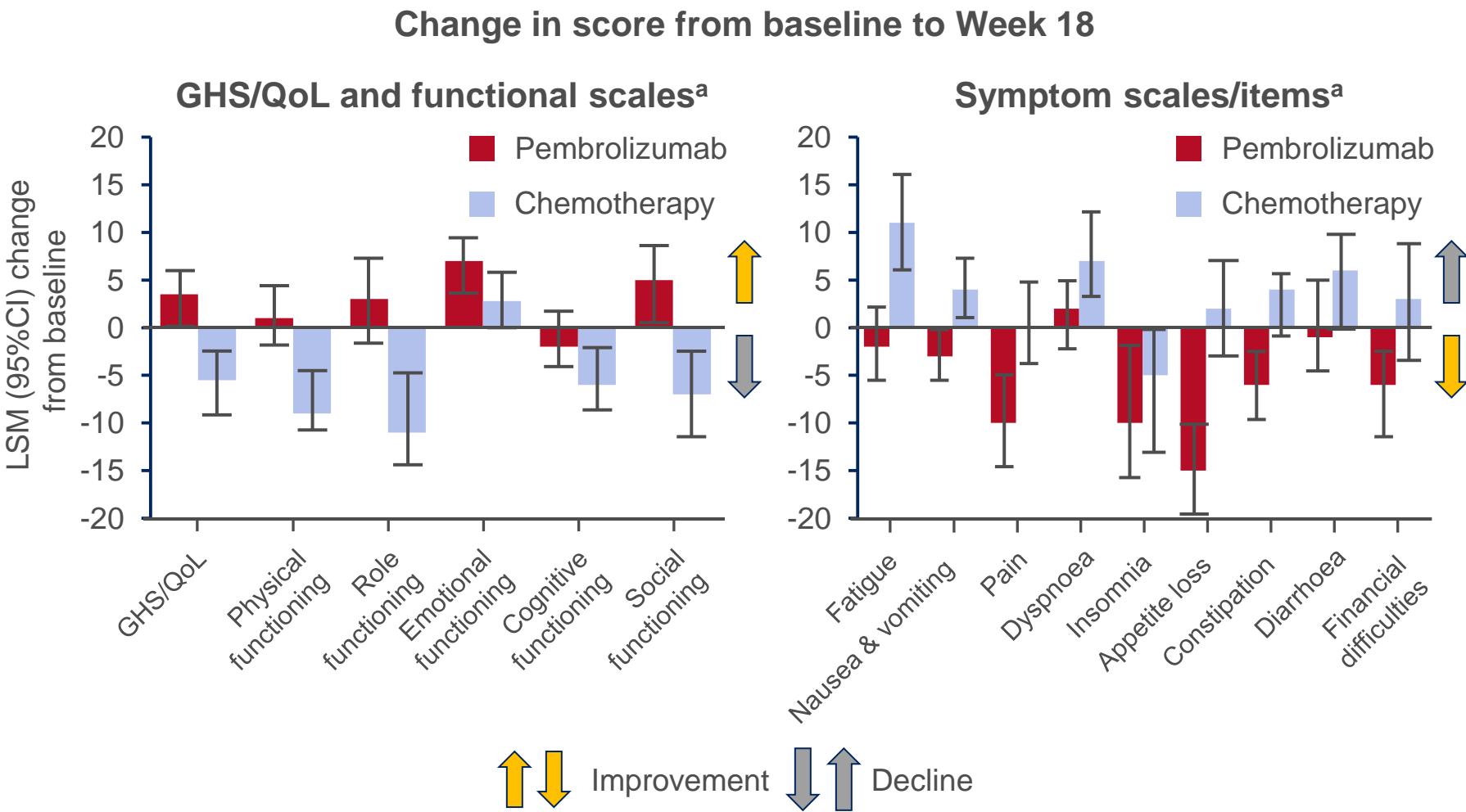
Key results

Change in QoL scores from baseline to Week 18

	QLQ-C30 General health/QoL score		EQ-5D VAS score	
	Pembrolizumab	Chemotherapy	Pembrolizumab	Chemotherapy
Baseline score, mean (SD)	66.2 (21.0)	66.6 (20.7)	70.1 (18.9)	70.8 (19.8)
Week 18 score, mean (SD)	72.1 (20.5)	62.6 (17.7)	76.9 (17.9)	70.8 (18.2)
LSM change from baseline (95%CI)	3.3 (-0.05, 6.7)	-5.6 (-9.3, -1.9)	4.5 (1.2, 7.8)	-2.9 (-6.5, 0.7)
LSM difference (95%CI)		9.0 (4.2, 13.7) p=0.0002		7.4 (2.8, 11.9) p=0.0016

396O: Health-related quality of life (HRQoL) in patients (pts) treated with pembrolizumab (pembro) vs chemotherapy as first-line treatment in microsatellite instability-high (MSI-H) and/or deficient mismatch repair (dMMR) metastatic colorectal cancer (mCRC): Phase 3 KEYNOTE-177 study – André T, et al

Key results (cont.)

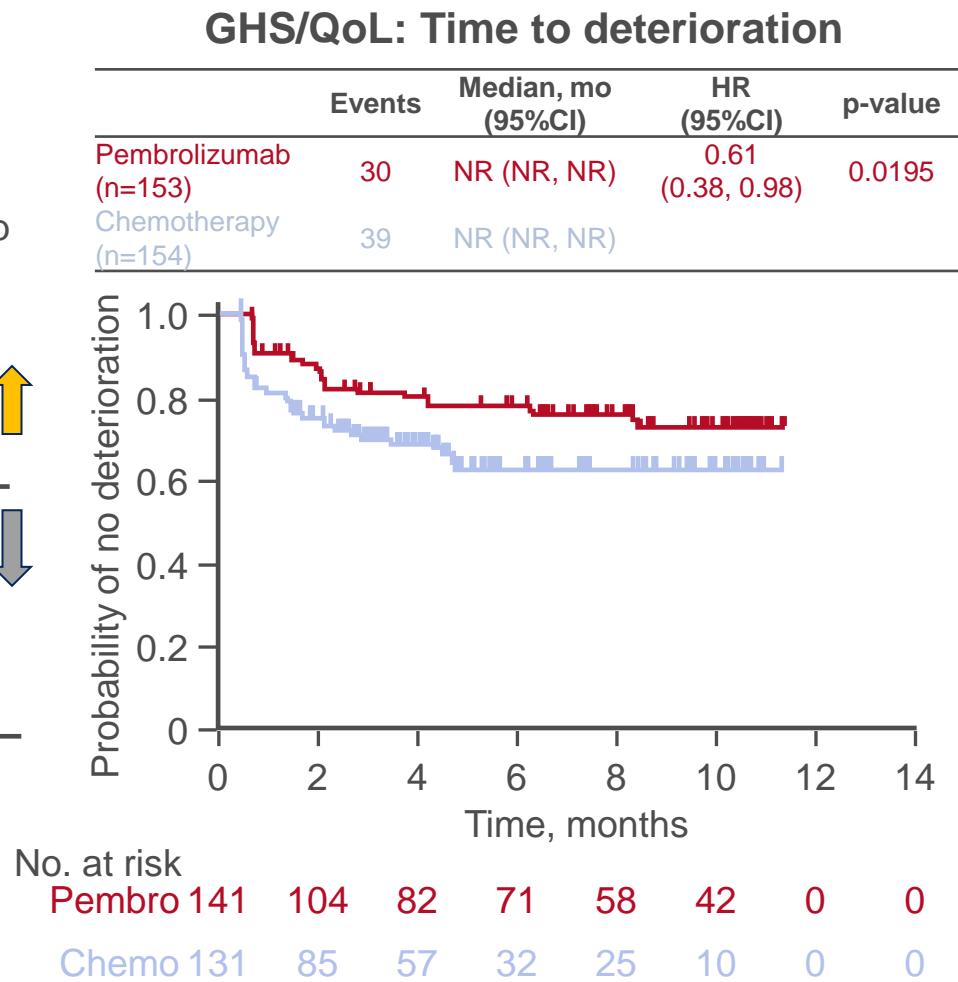
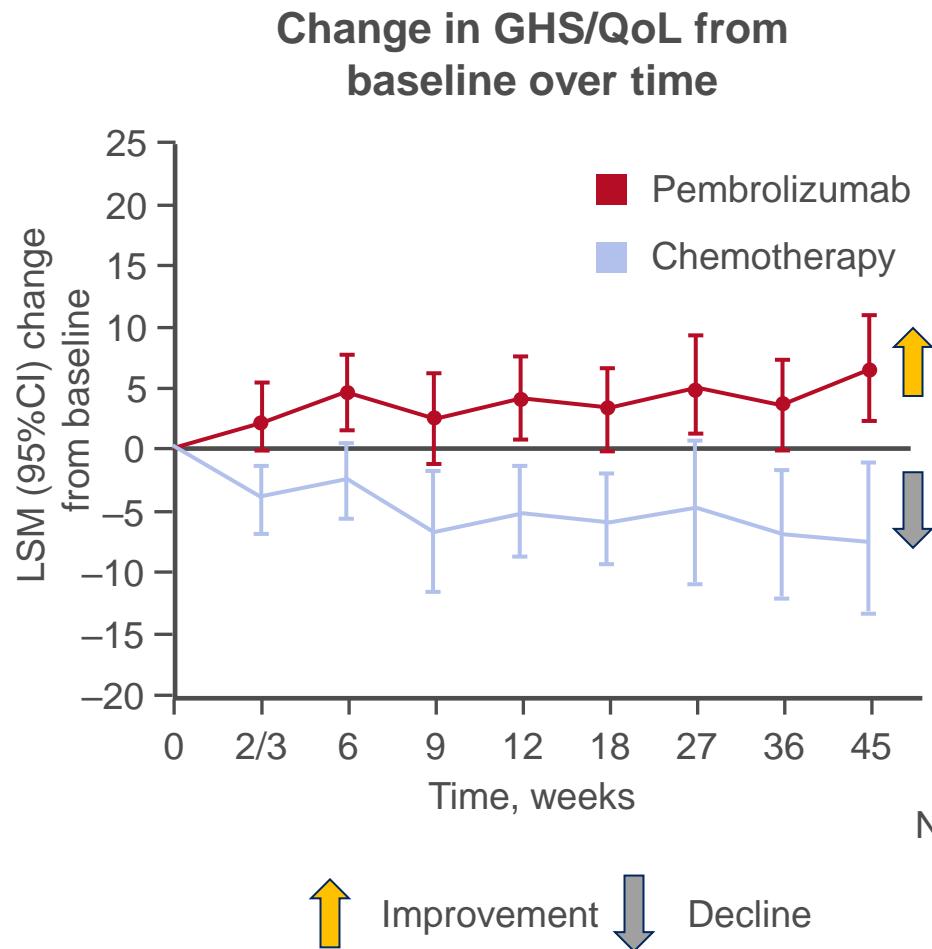


^a Error bars indicate 95% CIs around the mean.

André T, et al. Ann Oncol 2020;31(suppl):abstr 396O

396O: Health-related quality of life (HRQoL) in patients (pts) treated with pembrolizumab (pembro) vs chemotherapy as first-line treatment in microsatellite instability-high (MSI-H) and/or deficient mismatch repair (dMMR) metastatic colorectal cancer (mCRC): Phase 3 KEYNOTE-177 study – André T, et al

Key results (cont.)



396O: Health-related quality of life (HRQoL) in patients (pts) treated with pembrolizumab (pembro) vs chemotherapy as first-line treatment in microsatellite instability-high (MSI-H) and/or deficient mismatch repair (dMMR) metastatic colorectal cancer (mCRC): Phase 3 KEYNOTE-177 study – André T, et al

Key results (cont.)

Time to deterioration	Events	Median, months (95%CI)	HR (95%CI)	p-value
Physical functioning				
Pembrolizumab	29	NR (NR, NR)	0.50 (0.32, 0.81)	0.0016
Chemotherapy	45	NR (5.2, NR)		
Social functioning				
Pembrolizumab	27	NR (NR, NR)	0.53 (0.32, 0.87)	0.0050
Chemotherapy	39	NR (NR, NR)		
Physical functioning				
Pembrolizumab	50	NR (8.5, NR)	0.48 (0.33, 0.69)	<0.0001
Chemotherapy	72	2.1 (1.6, 4.4)		

Conclusions

- In patients with previously untreated MSI-H/dMMR mCRC, pembrolizumab monotherapy demonstrated clinically meaningful improvements in HRQoL outcomes in comparison with chemotherapy

397O: Avelumab plus cetuximab in pre-treated RAS wild type metastatic colorectal cancer patients as rechallenge strategy: the phase II CAVE (cetuximab-avelumab) mCRC study – Martinelli E, et al

Study objective

- To evaluate the efficacy of avelumab and cetuximab in patients with RAS wild-type mCRC

Key patient inclusion criteria

- mCRC
- RAS wild-type
- 1L CT + anti-EGFR
- CR or PR in 1L
- Received a 2L therapy
- ECOG PS 0–1

(n=77)

Avelumab 10 mg/kg iv q2w +
cetuximab at 400 mg/m² iv
(subsequently 250 mg/m²) qw

PD/
toxicity

PRIMARY ENDPOINT

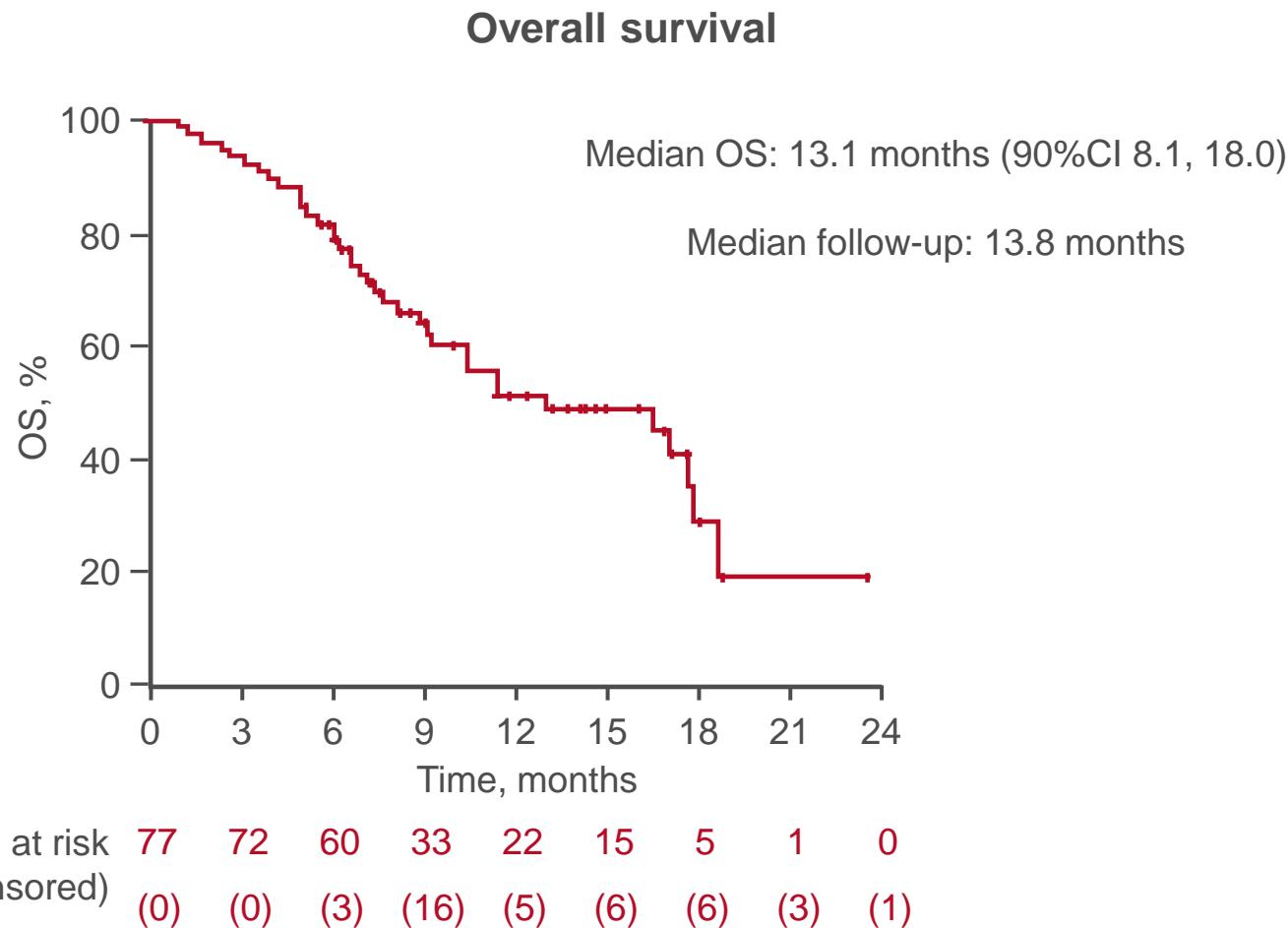
- OS

SECONDARY ENDPOINTS

- PFS, ORR, DCR, safety

397O: Avelumab plus cetuximab in pre-treated RAS wild type metastatic colorectal cancer patients as rechallenge strategy: the phase II CAVE (cetuximab-avelumab) mCRC study – Martinelli E, et al

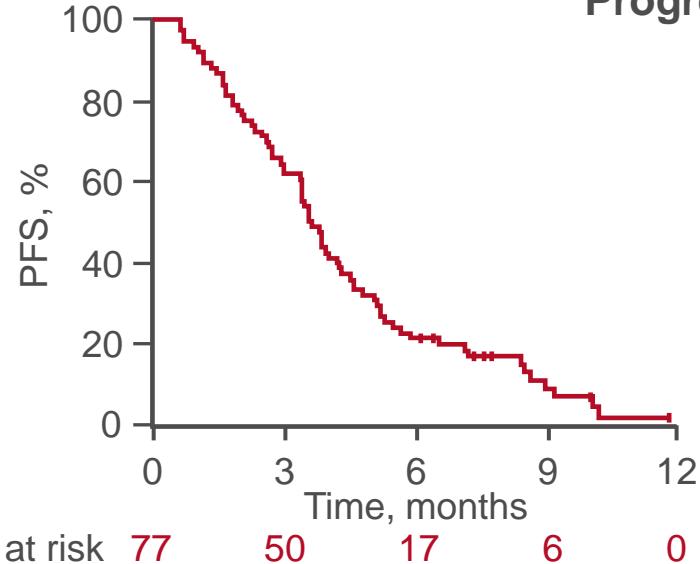
Key results



397O: Avelumab plus cetuximab in pre-treated RAS wild type metastatic colorectal cancer patients as rechallenge strategy: the phase II CAVE (cetuximab-avelumab) mCRC study – Martinelli E, et al

Key results (cont.)

Progression-free survival



Median PFS 3.6 months (95%CI 3.2, 4.1)

ctDNA was collected from 56 plasma samples and analyzed for RAS, RAF and EGFR-ECD mutations

No. at risk 77 50 17 6 0

BOR, n (%) [95%CI]	ITT (n=77)	Basal ctDNA (n=56)	RAS/BRAF wild-type (n=41)	RAS/BRAF mutant (n=15)
CR	1 (1) [0, 7]	2 (2) [0, 6.4]	1 (2) [0, 8.6]	1 (0) [0, 0.22]
PR	5 (6) [2, 14]	3 (5) [1.1, 14.9]	3 (7) [1.5, 20]	0 (0) [0, 0.22]
SD	44 (57) [45, 68]	33 (59) [45, 71.9]	26 (63) [47, 78]	7 (47) [21.3, 73.4]
PD	27 (35) [24, 47]	19 (34) [21.8, 47.8]	11 (27) [14, 43]	8 (53) [26.6, 78.7]
DCR, % (95%CI)	50 (65) [53, 75]	37 (66) [55.2, 78.2]	30 (73) [57, 85.8]	7 (47) [21.3, 73.4]

397O: Avelumab plus cetuximab in pre-treated RAS wild type metastatic colorectal cancer patients as rechallenge strategy: the phase II CAVE (cetuximab-avelumab) mCRC study – Martinelli E, et al

Key results (cont.)

AEs, n (%) (n=77)	Grade 1–2	Grade 3–4
Rash	46 (60)	11 (14)
Dry skin	13 (17)	0
Nail disorders	11 (14)	0
Pruritus	8 (10)	0
Conjunctivitis	7 (10)	0
Blepharitis	2 (3)	0
Diarrhoea	19 (25)	3 (4)
Abdominal pain	6 (7)	0
Nausea	5 (6)	0
Vomiting	2 (3)	0
AST/ALT increase	6 (7)	1 (1)
Blood bilirubin increase	3 (4)	0
Lipase and/or amylase increase	2 (3)	2 (3)
Hypothyroidism	2 (3)	0

397O: Avelumab plus cetuximab in pre-treated RAS wild type metastatic colorectal cancer patients as rechallenge strategy: the phase II CAVE (cetuximab-avelumab) mCRC study – Martinelli E, et al

Key results (cont.)

	RAS/BRAF wild-type (n=41)	RAS/BRAF mutant (n=15)
Median PFS, months (95%CI)	4.3 (3.0, 5.5)	3.0 (2.6, 3.3)
Median OS, months (95%CI)	16.1 (9.0, 24.1)	11.5 (5.4, 17.5)

Conclusion

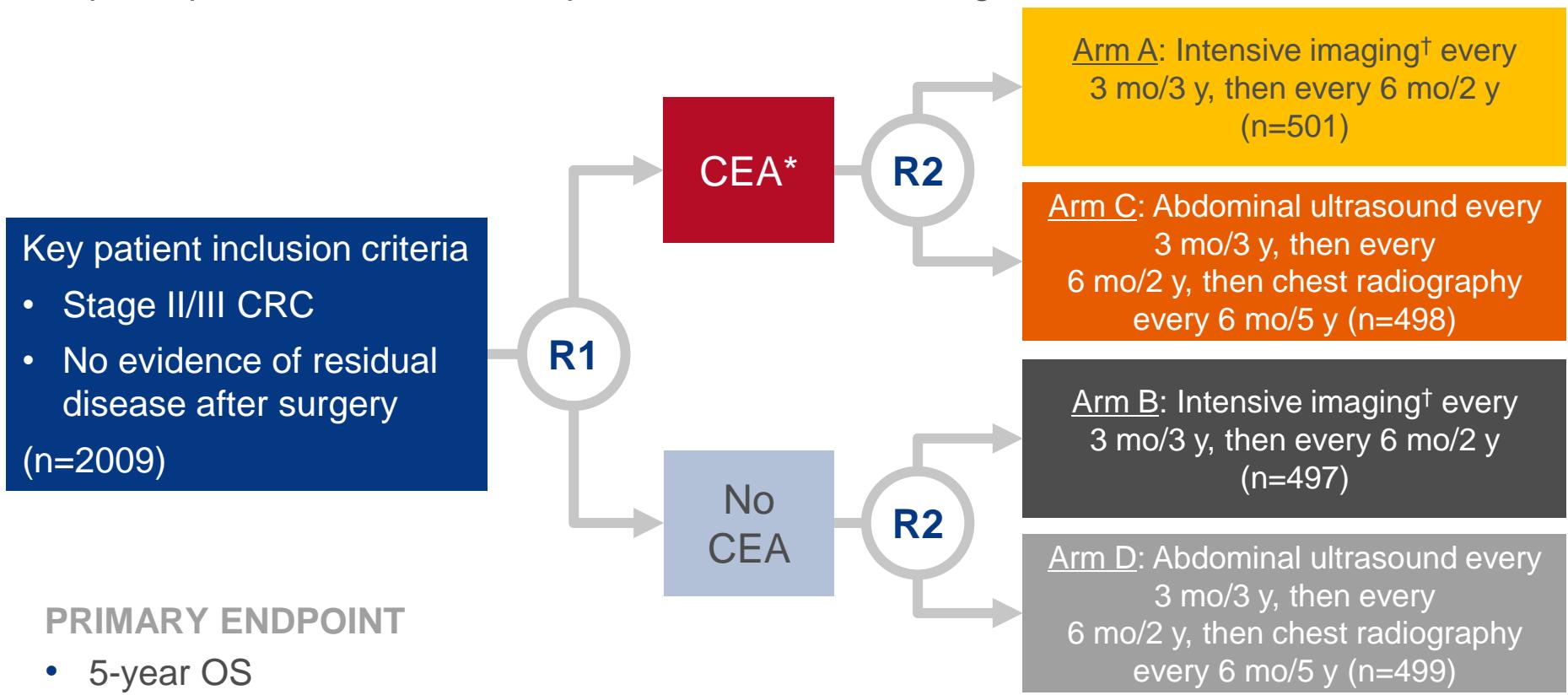
- In patients with RAS wild-type mCRC, avelumab + cetuximab as part of a rechallenge strategy demonstrated clinically meaningful improvement in OS and was generally well-tolerated

398O: Effect of 5 years of imaging and CEA follow-up to detect recurrence of colorectal cancer (CRC) - PRODIGE 13 a FFCD phase III trial

– Lepage C, et al

Study objective

- To evaluate the impact of intensive radiological monitoring and CEA assessment in the post-operative surveillance of patients with resected stage II/III CRC



*Every 3 mo for 2 years, then every 6 mo for 3 years;

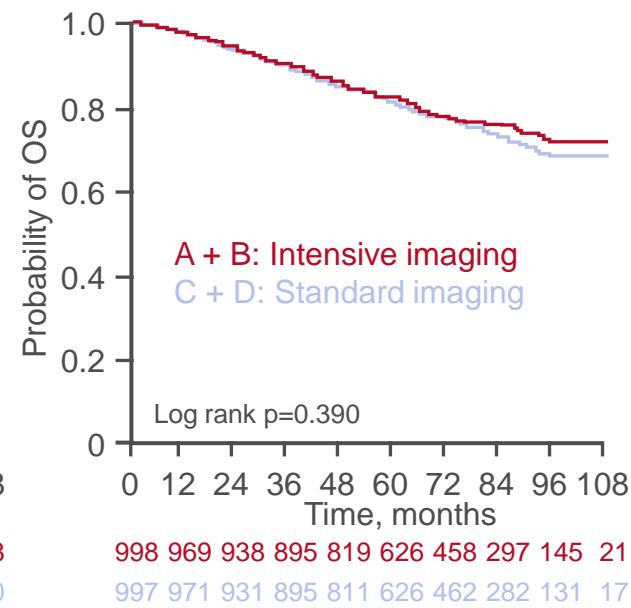
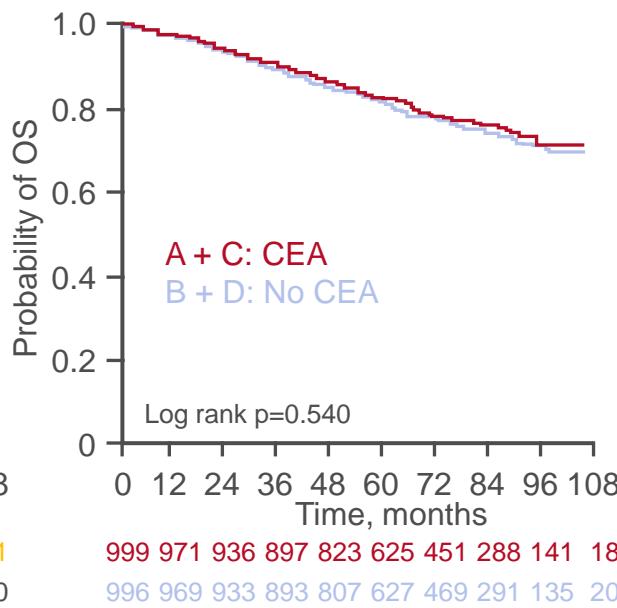
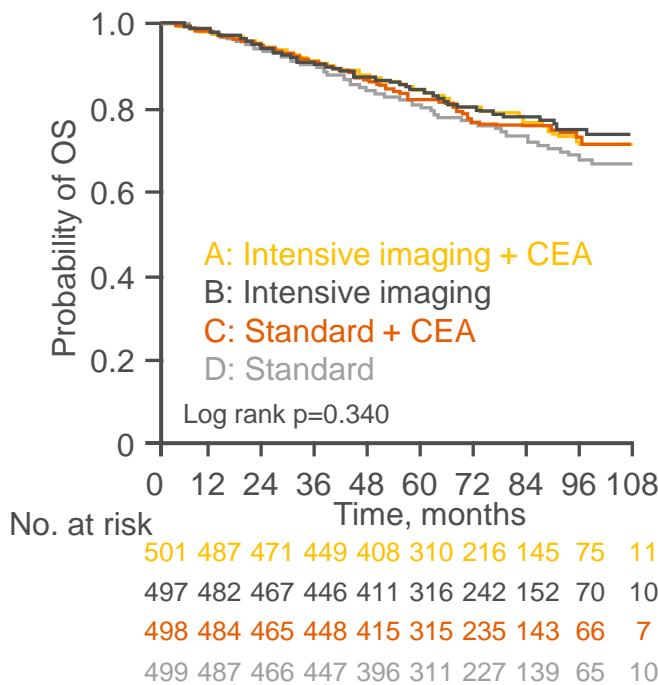
[†]intensive imaging: computed tomography alternating with abdominal ultrasound.

398O: Effect of 5 years of imaging and CEA follow-up to detect recurrence of colorectal cancer (CRC) - PRODIGE 13 a FFCD phase III trial

– Lepage C, et al

Key results

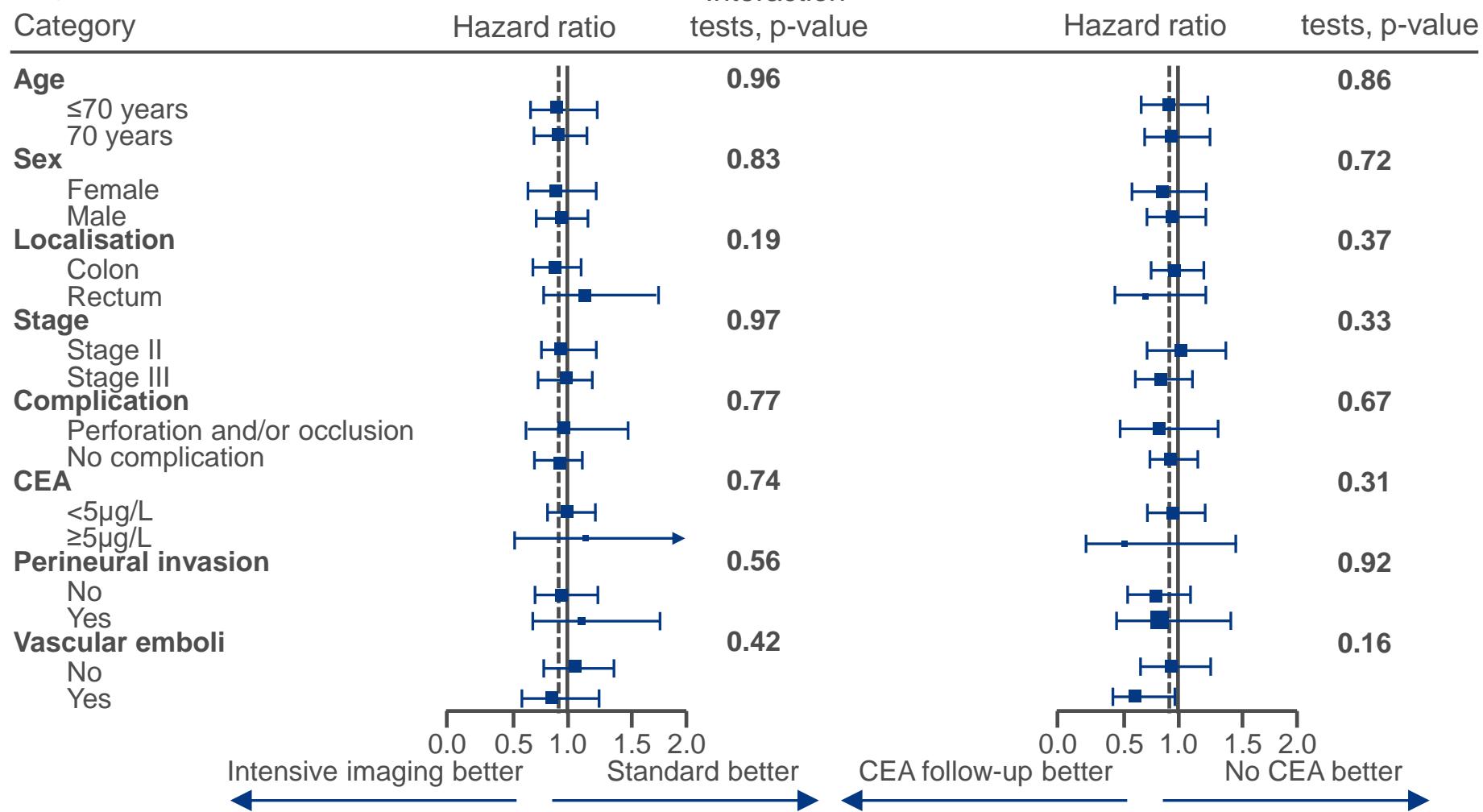
5-year overall survival



398O: Effect of 5 years of imaging and CEA follow-up to detect recurrence of colorectal cancer (CRC) - PRODIGE 13 a FFCD phase III trial

– Lepage C, et al

Key results (cont.)

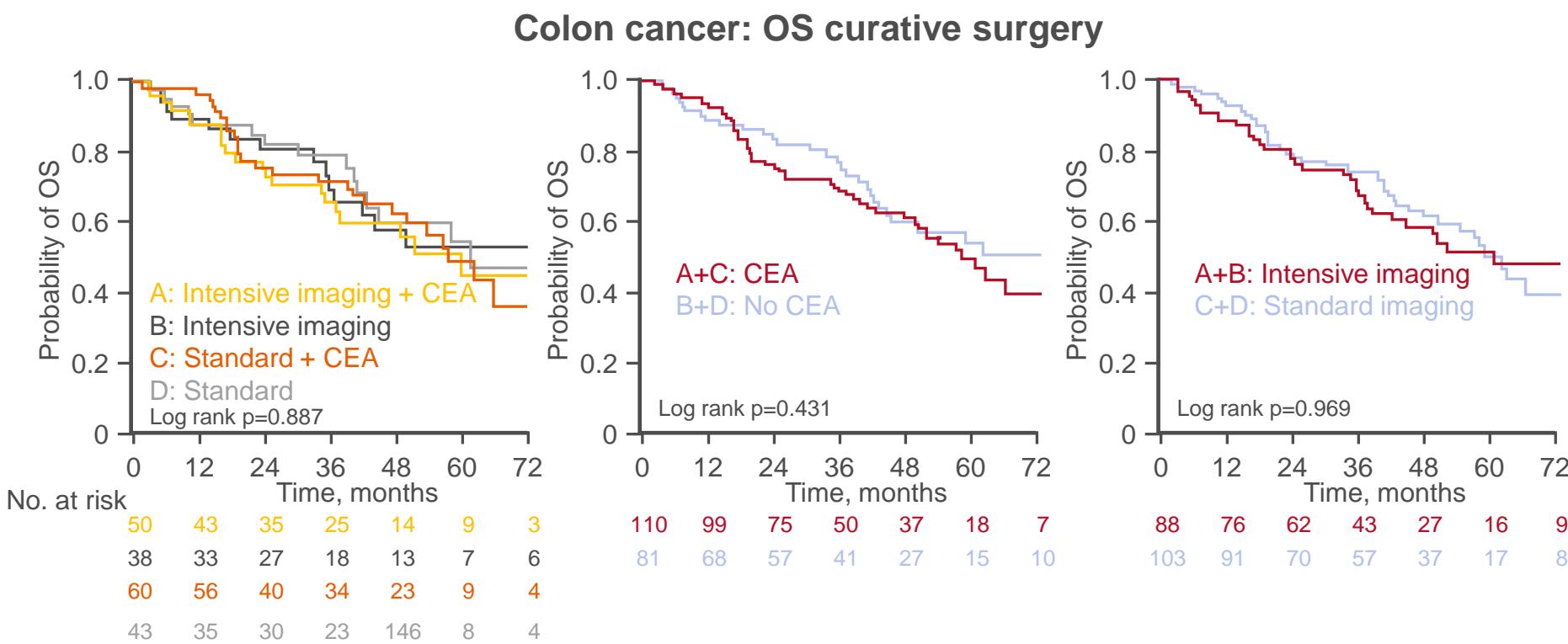


398O: Effect of 5 years of imaging and CEA follow-up to detect recurrence of colorectal cancer (CRC) - PRODIGE 13 a FFCD phase III trial

– Lepage C, et al

Key results (cont.)

Surgery for recurrence, %	Intensive imaging + CEA	Intensive imaging	Standard + CEA	Standard	p-value
Colon (n=356)	59.5	50.7	66.3	40.9	0.0035
Rectum (n=83)	47.8	55.0	57.9	42.9	ns



398O: Effect of 5 years of imaging and CEA follow-up to detect recurrence of colorectal cancer (CRC) - PRODIGE 13 a FFCD phase III trial

- Lepage C, et al

Conclusions

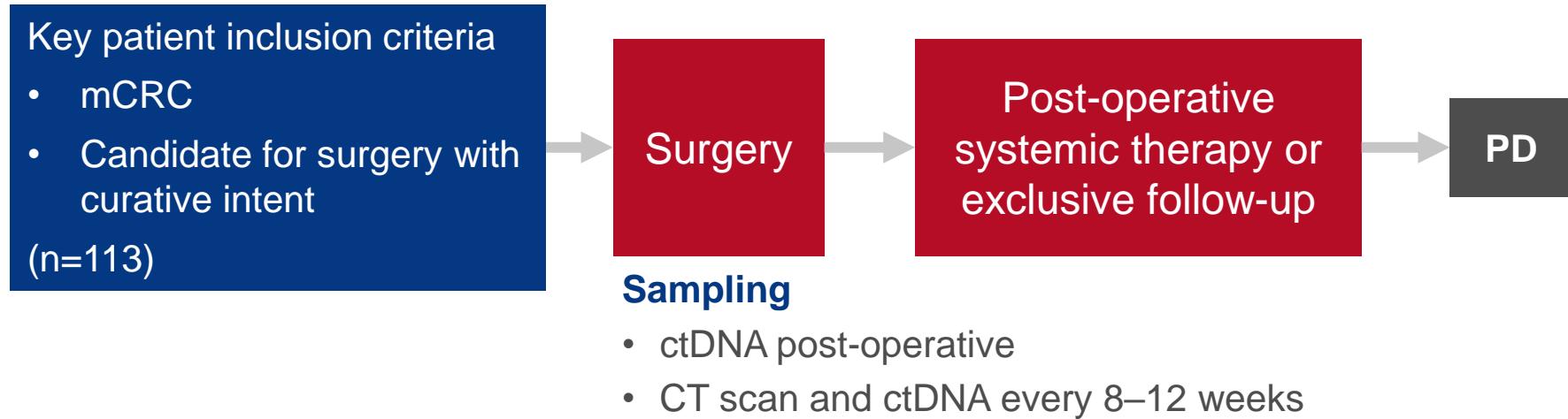
- In patients with CRC, there were no significant differences in OS or RFS across the surveillance arms
- The findings suggest that the guidelines for CRC surveillance after curative resection should emphasize a regular clinical assessment of patients using ultrasound and chest radiography, while CT scans should only be performed in case of suspicion of recurrence
- Other results from this study associating survival data with promising markers (e.g. immune contexture, exosomes) will be available in the near future and allow adjustment of these conclusions

405MO: Personalized circulating tumor DNA assay for the detection of minimal residual disease in CRC patients after resection of metastases

– Loupakis F, et al

Study objective

- To evaluate the prognostic utility of SignateraTM ctDNA (an mPCR and next-generation sequencing-based assay) in predicting progression in patients with mCRC after resection of metastases

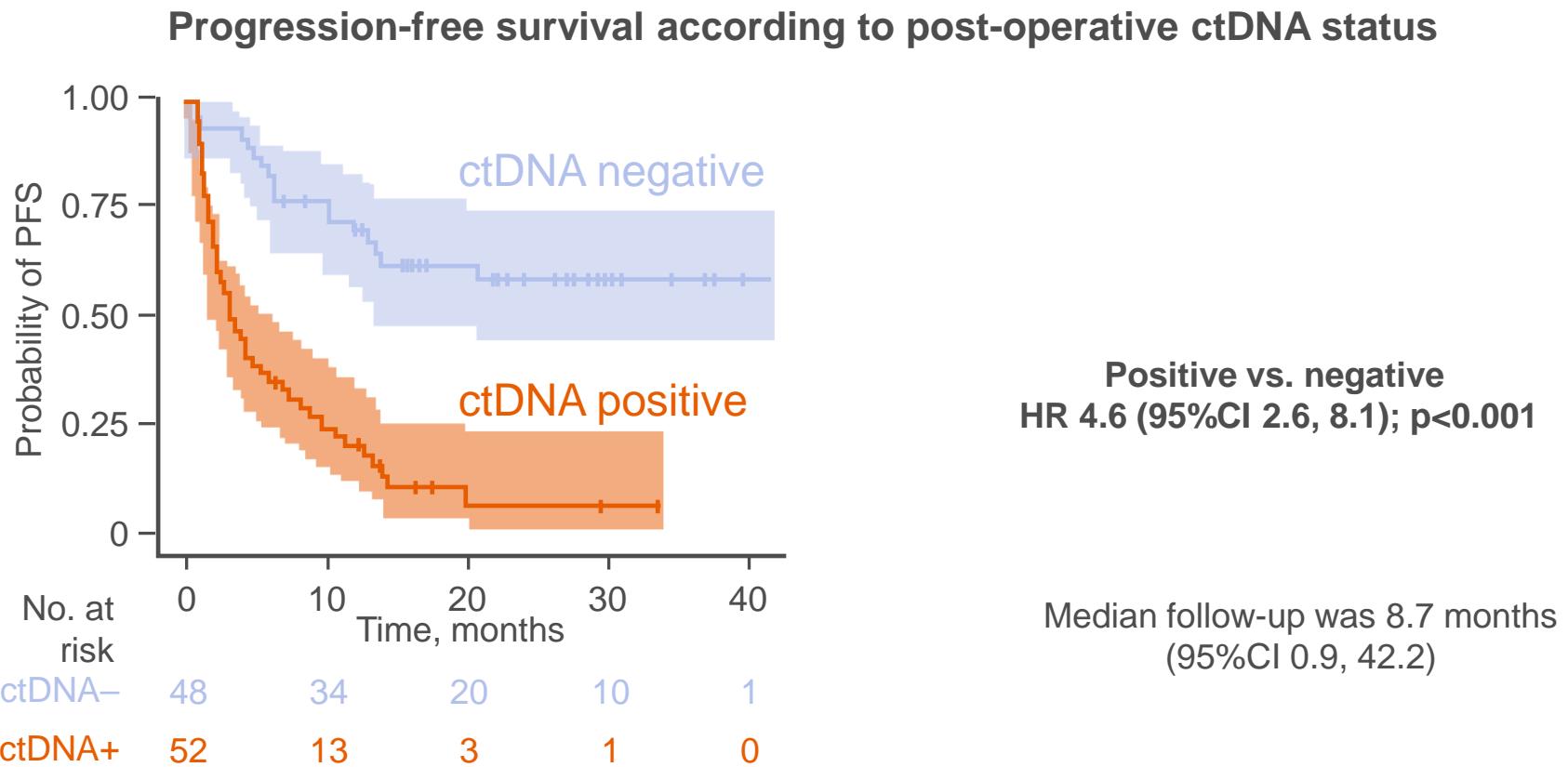


PRIMARY ENDPOINT

- PFS according to post-operative ctDNA status

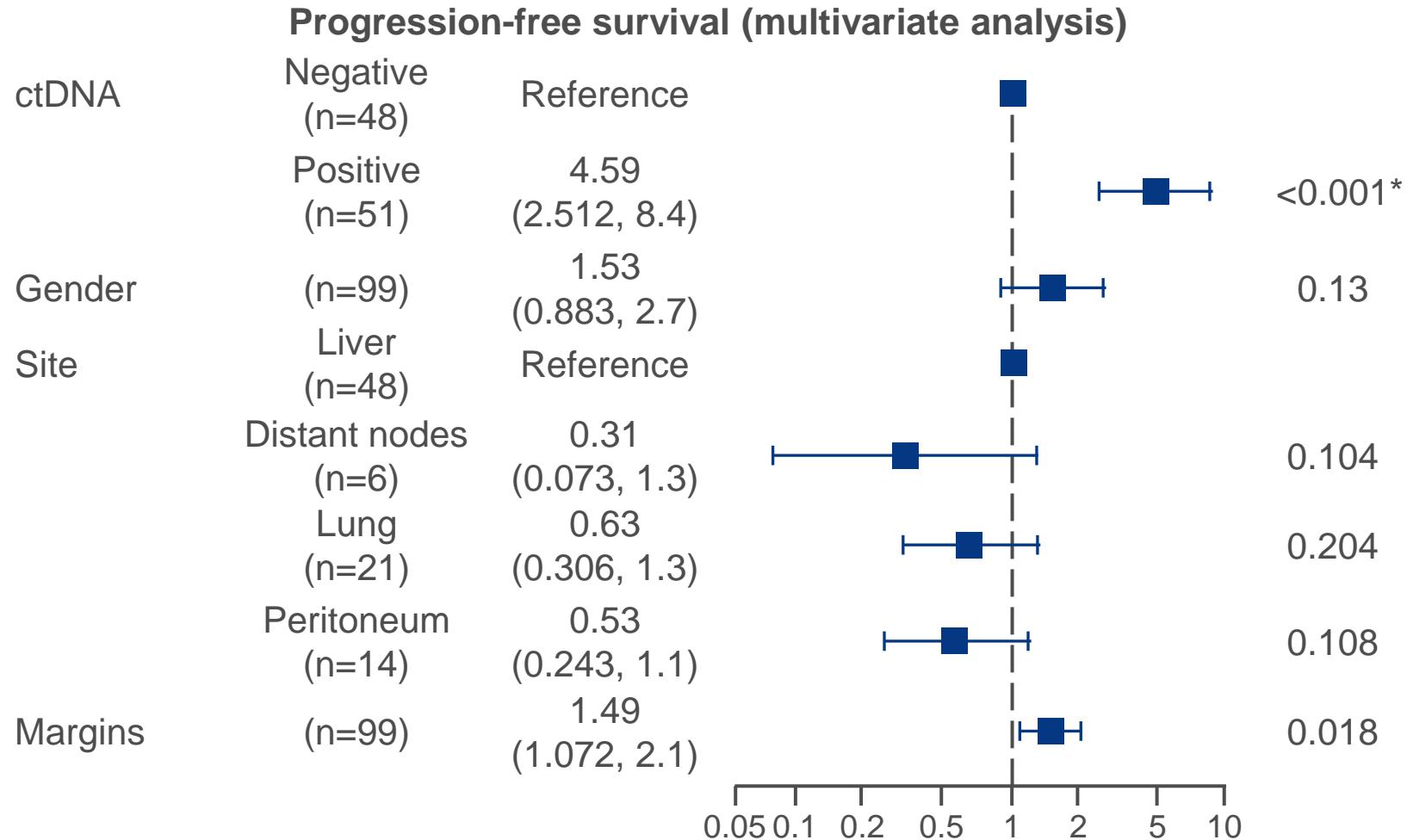
405MO: Personalized circulating tumor DNA assay for the detection of minimal residual disease in CRC patients after resection of metastases – Loupakis F, et al

Key results



405MO: Personalized circulating tumor DNA assay for the detection of minimal residual disease in CRC patients after resection of metastases – Loupakis F, et al

Key results (cont.)



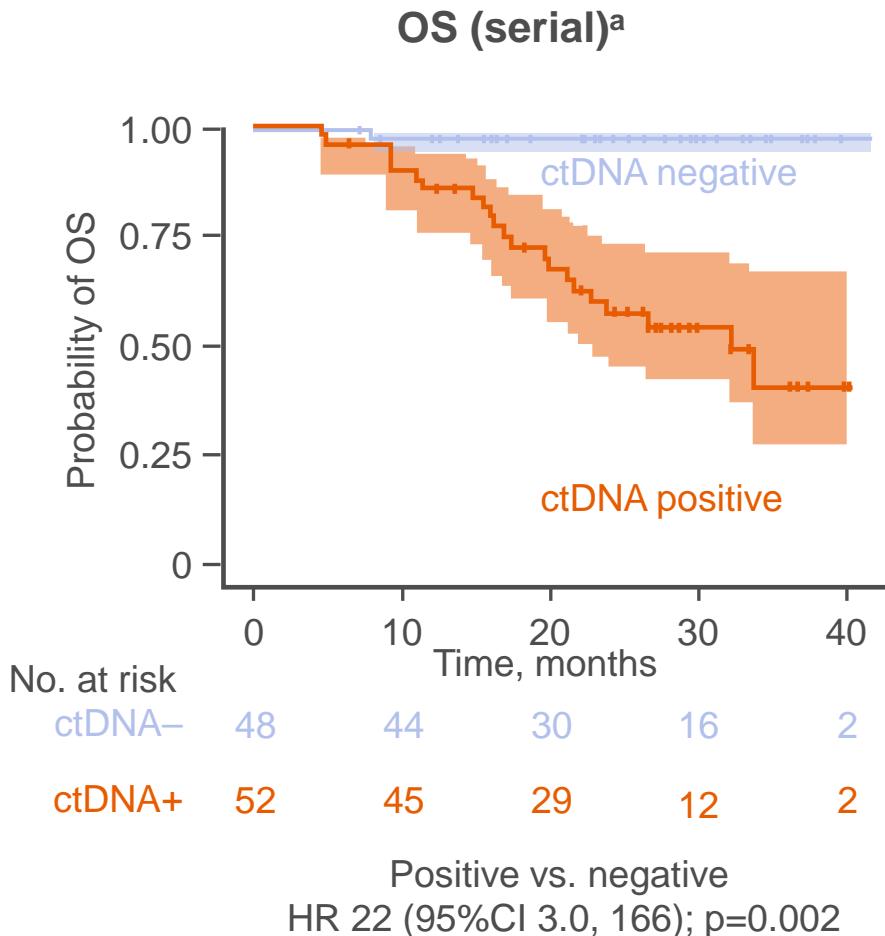
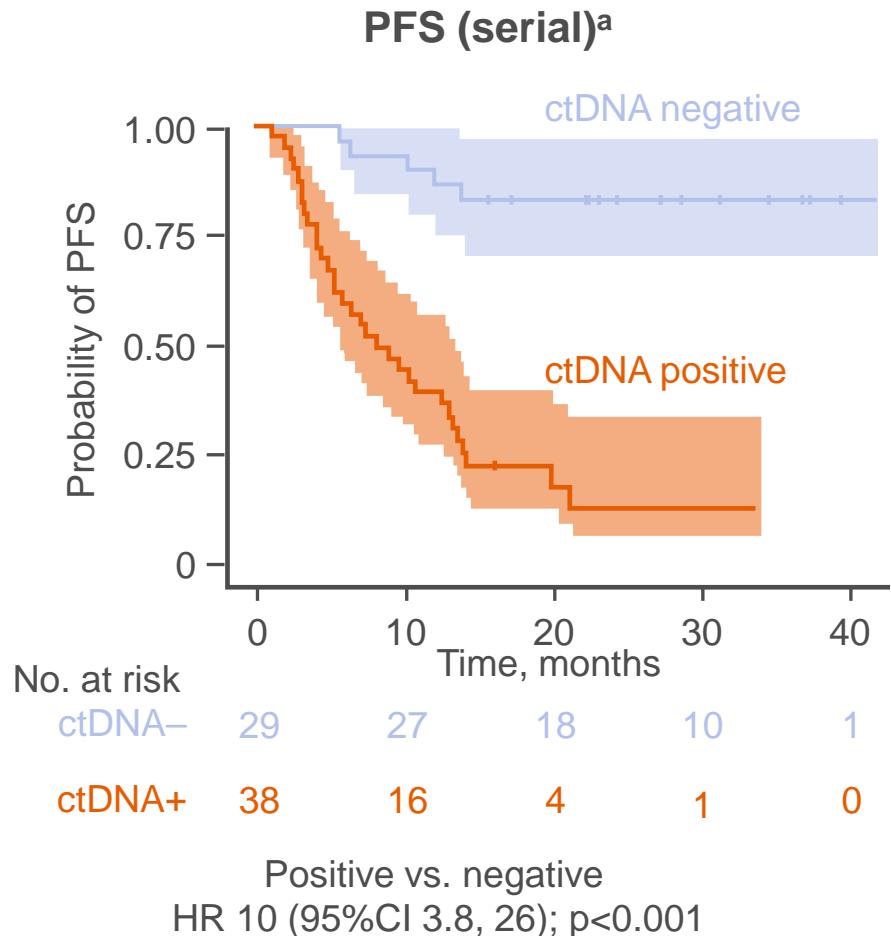
*No. of events: 62; global p-value (log-rank): 3.2177e–08

A/C: 479.32; Concordance index: 0.74

Loupakis F, et al. Ann Oncol 2020;31(suppl):abstr 405MO

405MO: Personalized circulating tumor DNA assay for the detection of minimal residual disease in CRC patients after resection of metastases – Loupakis F, et al

Key results (cont.)



^a Exploratory analysis separated patients by ctDNA positivity at any time point.

Loupakis F, et al. Ann Oncol 2020;31(suppl):abstr 405MO

405MO: Personalized circulating tumor DNA assay for the detection of minimal residual disease in CRC patients after resection of metastases – Loupakis F, et al

Conclusions

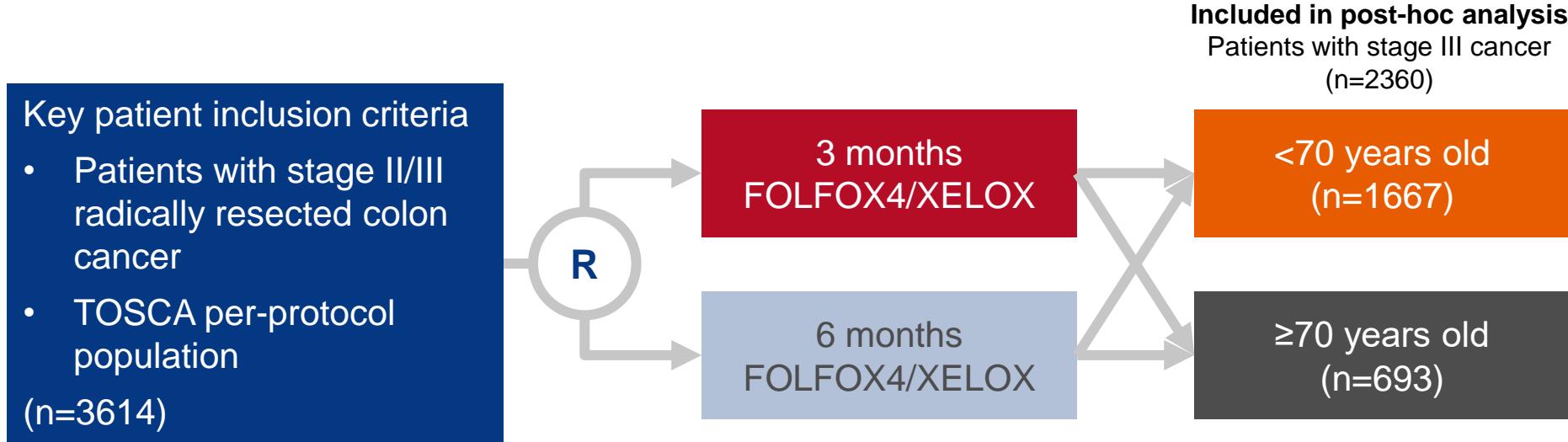
- In patients with oligometastatic CRC undergoing surgery with curative intent, the SignateraTM assay was able to detect residual disease
- A significant reduction in PFS was associated with a ctDNA positive status post-surgery

399O: Oxaliplatin plus fluoropyrimidines as adjuvant therapy for colon cancer in elderly patients: a subgroup analysis from TOSCA trial

– Rosati G, et al

Study objective

- To evaluate the impact of age (<70 vs ≥70 years old) on efficacy of and compliance to oxaliplatin-based adjuvant chemotherapy in patients with stage III colon cancer from both treatment arms of the TOSCA trial



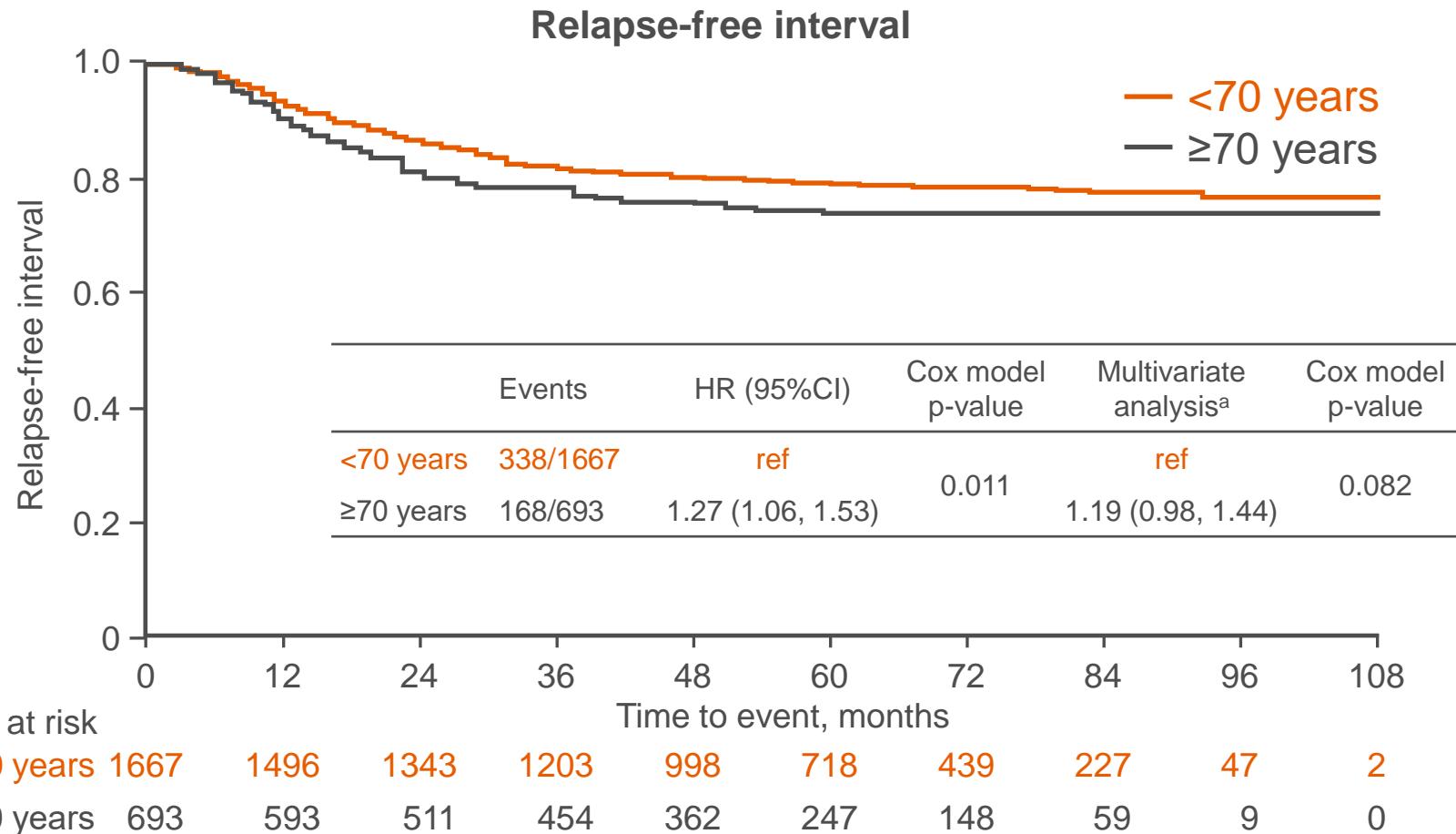
PRIMARY ENDPOINT

- Relapse-free interval

399O: Oxaliplatin plus fluoropyrimidines as adjuvant therapy for colon cancer in elderly patients: a subgroup analysis from TOSCA trial

– Rosati G, et al

Key results



^a Adjusted for gender, ECOG PS, tumour site, clinical risk stage, grade, regimen, treatment duration and dose reduction.

Rosati G, et al. Ann Oncol 2020;31(suppl):abstr 399O

399O: Oxaliplatin plus fluoropyrimidines as adjuvant therapy for colon cancer in elderly patients: a subgroup analysis from TOSCA trial

– Rosati G, et al

Key results (cont.)

Treatment compliance	<70 years (n=1667)	≥70 years (n=693)	Chi-square p-value
Mean treatment duration, weeks (median)	18.5 (15.1)	17.8 (14.9)	0.040
Treatment completed as allocated, n (%)	1344 (81)	512 (74)	
Treatment prematurely interrupted, n (%)	321 (19)	181 (26)	<0.001
Dose reduction, n (%)	685 (41)	321 (47)	0.018

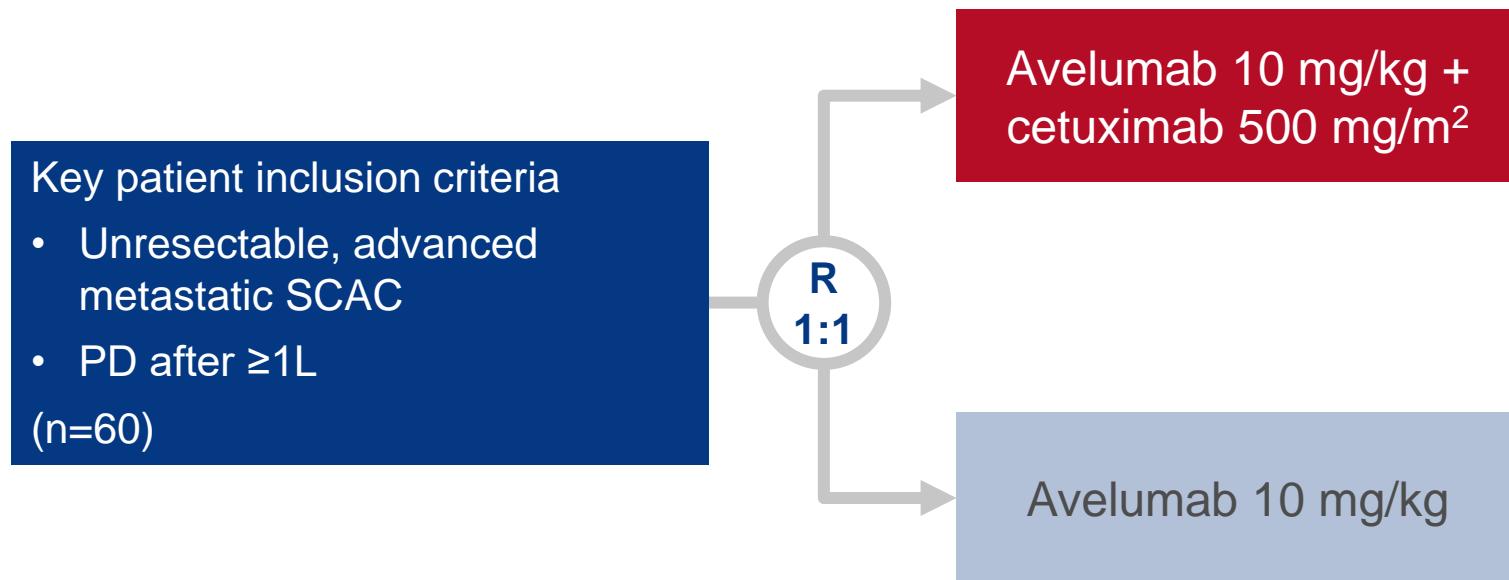
Conclusion

- In elderly patients with colon cancer, there was a higher incidence of relapses in those aged ≥70 years compared with <70 years old (24.2% vs. 20.3%, p=0.033), although a multivariate analysis indicated that age did not have a significant impact on relapse-free survival

402MO: Final results of the CARACAS study: randomized phase 2 trial of avelumab alone or with cetuximab for unresectable, locally advanced or metastatic squamous cell anal carcinoma progressed to at least one line of treatment – Lonardi S, et al

Study objective

- To evaluate the safety and activity of avelumab alone or in combination with cetuximab in patients with previously treated advanced squamous cell anal carcinoma (SCAC)



PRIMARY ENDPOINT

- ORR (RECIST v1.1)

Response assessment at n=13 per arm: if at least 1 response per arm, recruit 17 additional patients.

SECONDARY ENDPOINTS

- PFS, OS, safety

402MO: Final results of the CARACAS study: randomized phase 2 trial of avelumab alone or with cetuximab for unresectable, locally advanced or metastatic squamous cell anal carcinoma progressed to at least one line of treatment – Lonardi S, et al

Key results

	Avelumab + cetuximab (n=30)	Avelumab (n=30)
ORR, % (95%CI)	17 (6.3, 34.1)	10 (2.5, 27)
BOR, n (%)		
CR	0 (0)	0 (0)
PR	5 (17)	3 (10)
SD	12 (40)	12 (40)
PD	13 (43)	15 (50)
DCR, % (95%CI)	57 (42.4, 77.6)	50 (35.3, 71.3)
Median TTR, months (95%CI)	5.9 (2.1, NE)	5.7 (2.6, NE)
Median DoR, months (95%CI)	7.6 (2.0, NE)	5.5 (2.3, NE)
Median DCR, months (95%CI)	4.3 (2.0, NE)	4.2 (1.9, NE)
Median PFS, months (95%CI)	3.88 (2.07, 6.14)	2.05 (1.84, 5.52)

Median follow-up was 11 months (95%CI 10.1, 13.4).

Lonardi S, et al. Ann Oncol 2020;31(suppl):abstr 402MO

402MO: Final results of the CARACAS study: randomized phase 2 trial of avelumab alone or with cetuximab for unresectable, locally advanced or metastatic squamous cell anal carcinoma progressed to at least one line of treatment – Lonardi S, et al

Key results (cont.)

Grade 3–4 AEs, n (%)	Avelumab + cetuximab (n=30)	Avelumab (n=30)
Anaemia	1 (3)	-
Hypomagnesemia	1 (3)	-
Blood bilirubin increase	1 (3)	-
Fatigue	1 (3)	-
Skin disorders	2 (6)	-
AST/ALT increased	2 (6)	-

Conclusion

- In patients with unresectable, locally advanced or metastatic SCAC, avelumab + cetuximab demonstrated encouraging antitumor activity with a manageable safety profile**

403MO: Atezolizumab in combination with bevacizumab for patients with unresectable/metastatic anal cancer – Morris V, et al

Study objective

- To evaluate the safety and activity of atezolizumab in combination with bevacizumab in patients with metastatic squamous cell carcinoma of the anal canal (SCCA)

Key patient inclusion criteria

- Histologically confirmed incurable/metastatic SCCA
- ≥1 line of prior systemic therapy
- No prior immunotherapy
- ECOG PS 0–1

(n=20)

Atezolizumab 1200 mg +
bevacizumab 7.5 mg/kg
iv q3w

PD/
toxicity/
withdrawal

PRIMARY ENDPOINT

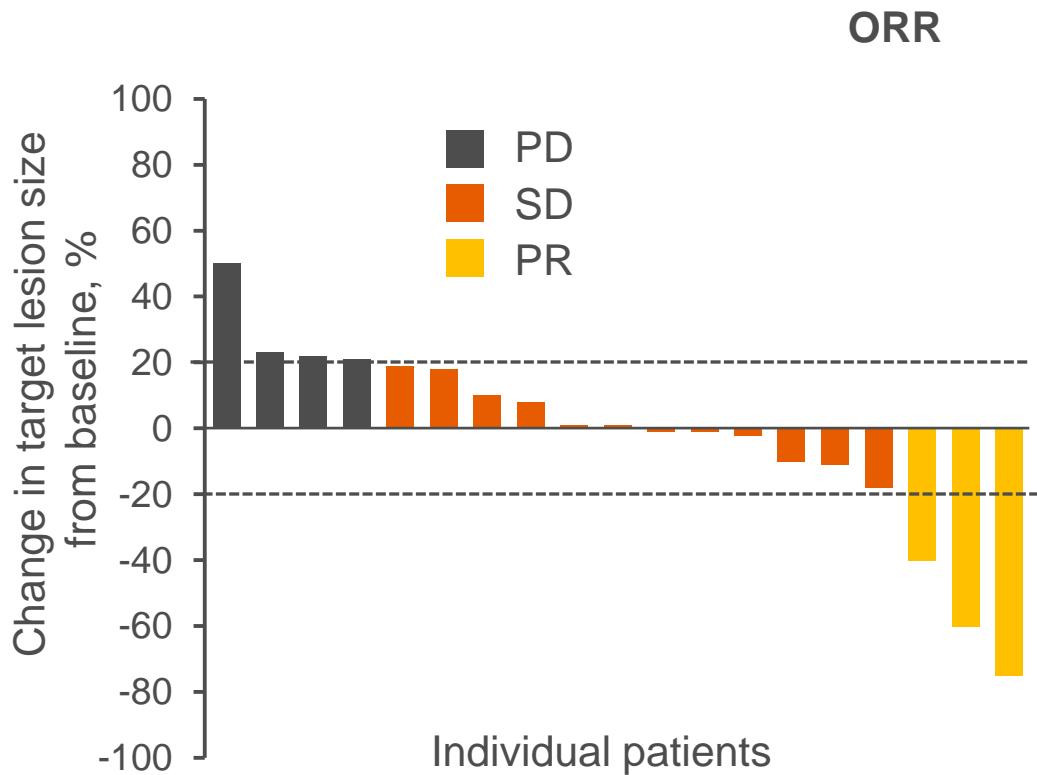
- ORR (RECIST v1.1)

SECONDARY ENDPOINTS

- PFS, OS, safety

403MO: Atezolizumab in combination with bevacizumab for patients with unresectable/metastatic anal cancer – Morris V, et al

Key results



Median PFS: 4.1 months (95%CI 2.6, NA)
12-month PFS rate: 20% (95%CI 8, 52)

ORR 11% (95%CI 1, 33)

n=19 evaluable	n (%)
PR	2 (11)
SD	11 (58)
PD	6 (32)

Median OS: 11.6 months (95%CI 9.5, 20)
12-month OS rate: 40% (95%CI 23, 71)

403MO: Atezolizumab in combination with bevacizumab for patients with unresectable/metastatic anal cancer – Morris V, et al

Key results (cont.)

Grade 3–4 AEs, n (%)	n=20
Hyponatremia	4 (20)
Hypertension	2 (10)
Infection	2 (10)
MDS	1 (5)
Abdominal pain	1 (5)
Abscess	1 (5)
Lymphopenia	1 (5)
Neutropenia	1 (5)
Anaemia	1 (5)
Encephalopathy	1 (5)
Fistula	1 (5)
Hyperkalemia	1 (5)
Bowel perforation (grade 5)	1 (5)

Conclusion

- In patients with unresectable SCCA, atezolizumab + bevacizumab demonstrated modest activity and was generally well-tolerated