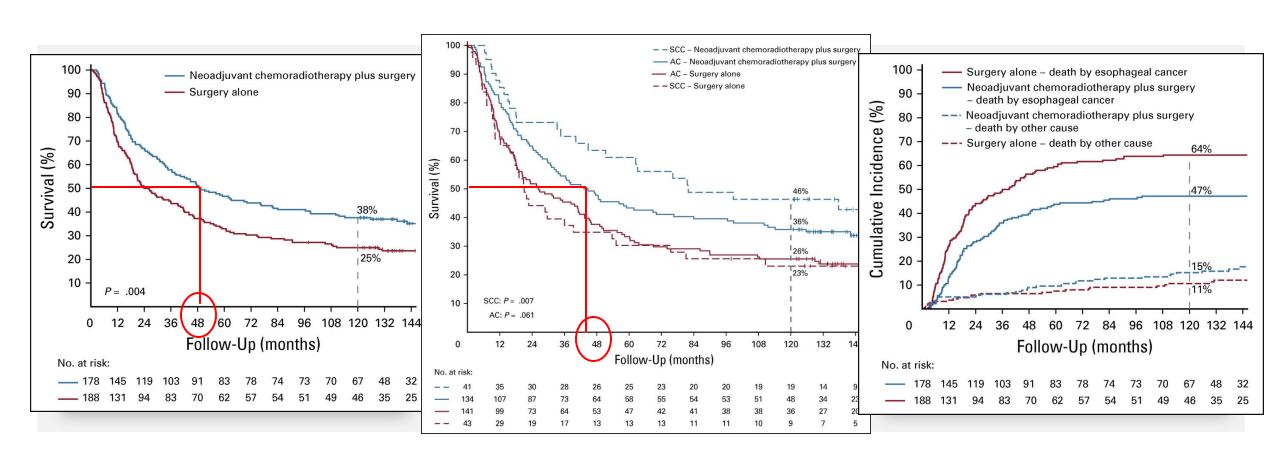
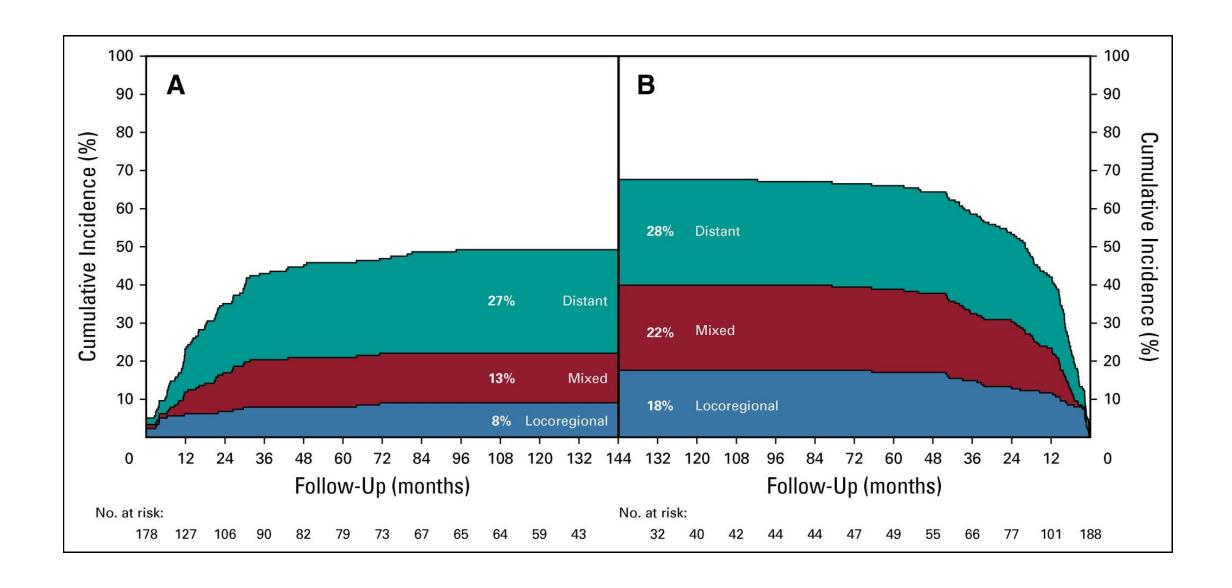
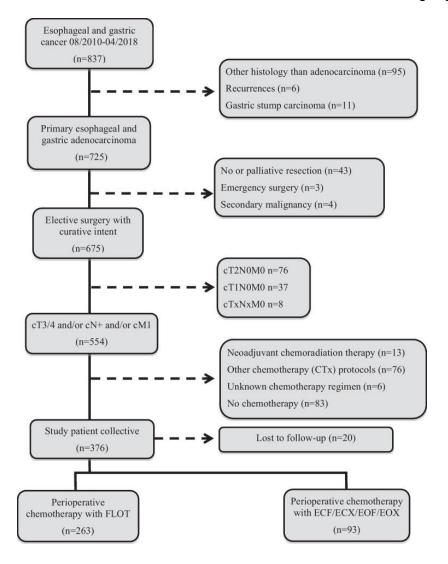


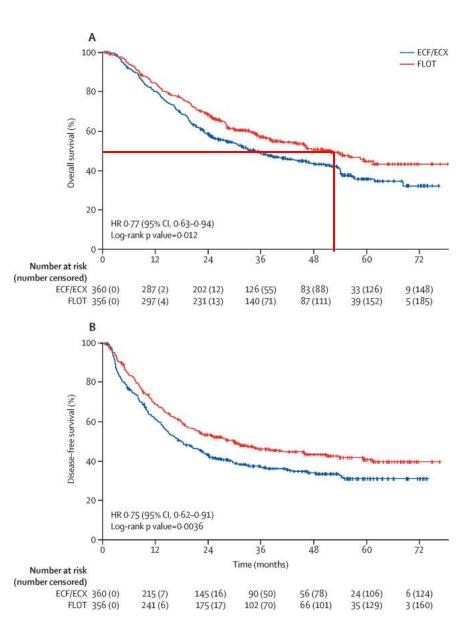
CROSS Trial





FLOT4

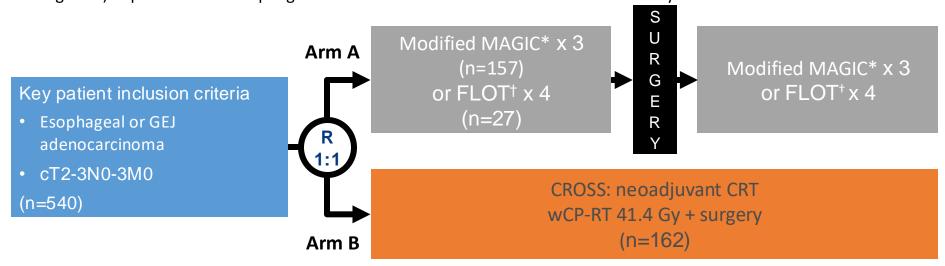




4004: Neo-AEGIS (Neoadjuvant trial in Adenocarcinoma of the Esophagus and Esophago-Gastric Junction International Study): Preliminary results of phase III RCT of CROSS versus perioperative chemotherapy (Modified MAGIC or FLOT protocol) — Reynolds JV, et al

Study objective

• To evaluate the efficacy and safety of the CROSS regimen vs. perioperative chemotherapy (either modified MAGIC or FLOT regimen) in patients with esophageal or GEJ adenocarcinoma in the Neo-AEGIS study



PRIMARY ENDPOINT

OS

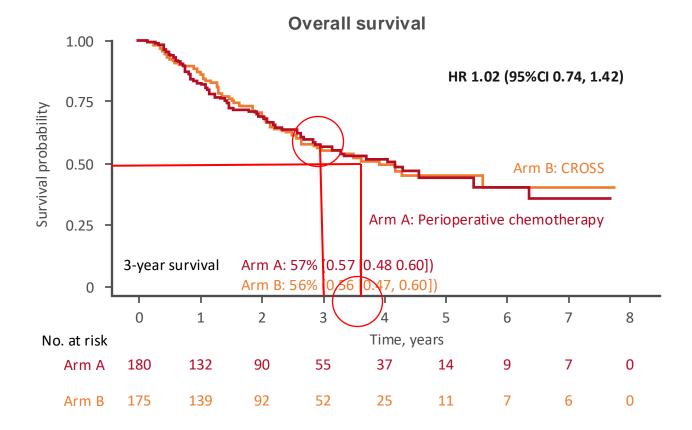
SECONDARY ENDPOINTS

 DFS, TTF, TRG, R0 rate, postoperative complications, HR-QoL, safety

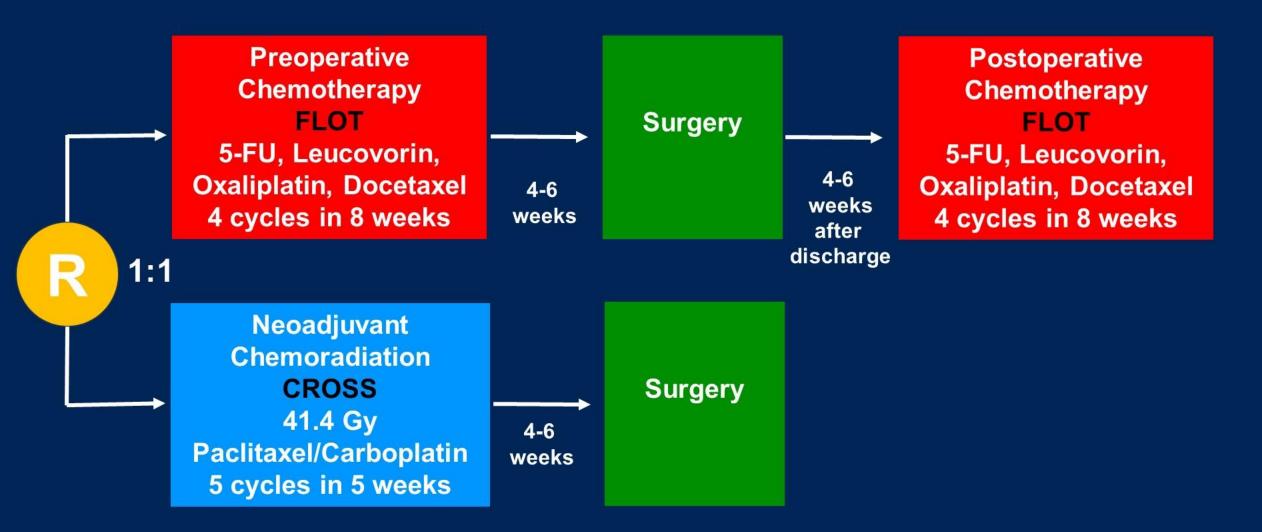
^{*}ECF/ECX/EOF/EOX; [†]5FU 2600 mg/m² iv 24 h infusion D1 + leucovorin 200 mg/m² iv D1 + oxaliplatin 85 mg/m² iv D1 + docetaxel 50 mg/m² iv D1 q2w

4004: Neo-AEGIS (Neoadjuvant trial in Adenocarcinoma of the Esophagus and Esophago-Gastric Junction International Study): Preliminary results of phase III RCT of CROSS versus perioperative chemotherapy (Modified MAGIC or FLOT protocol) – Reynolds JV, et al





ESOPEC Trial Scheme







Statistical Planning

Intention to treat (ITT) analysis of overall survival (primary endpoint) in all randomized patients

Sample size planning:

- To show superiority of FLOT vs. CROSS for overall survival at one-sided significance level of 2.5%
- Assumptions on 3-year overall survival rates: CROSS 55%, FLOT 68% (hazard ratio 0.645)
- 218 events needed for power 90%
- 438 patients needed







Treatment Exposure

	FLOT Group	CROSS Group
N	221	217
Started neoadjuvant treatment (PP population*)	93.7 %	90.3 %
Completed neoadjuvant treatment	87.3 %	67.7 %#
Received neoadjuvant treatment plus surgery	86.0 %	82.9 %
Received adjuvant treatment	63.3 %	
Completed adjuvant treatment	52.5 %	

^{*}Per protocol population according to Clinical Trial Protocol and Statistical Analysis Plan

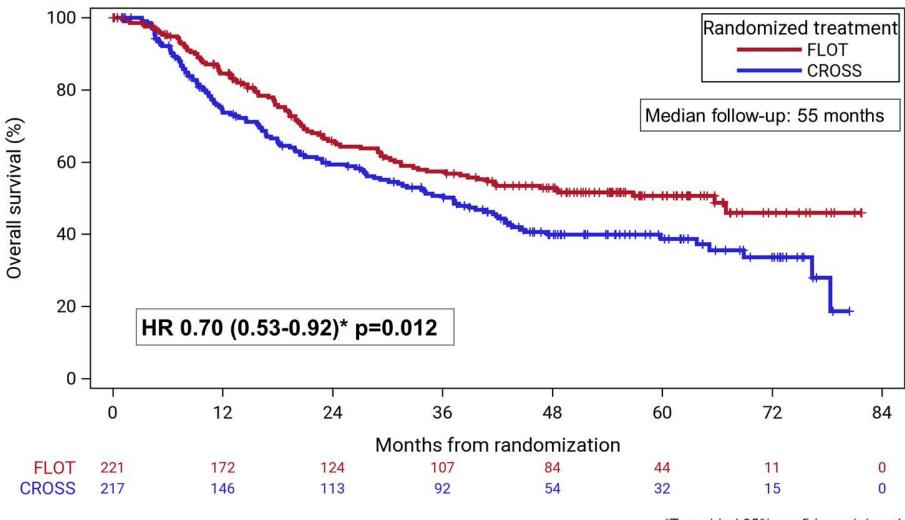
^{*}Completion rate (41.4Gy) of radiotherapy 98%







Overall Survival - ITT Population



	FLOT	CROSS
Events	97	121
Median OS time (months)	66 95% CI 36 – n.e	37 95% CI 28 – 43
3-year OS rate	57.4%	50.7%
5-year OS rate	50.6%	38.7%





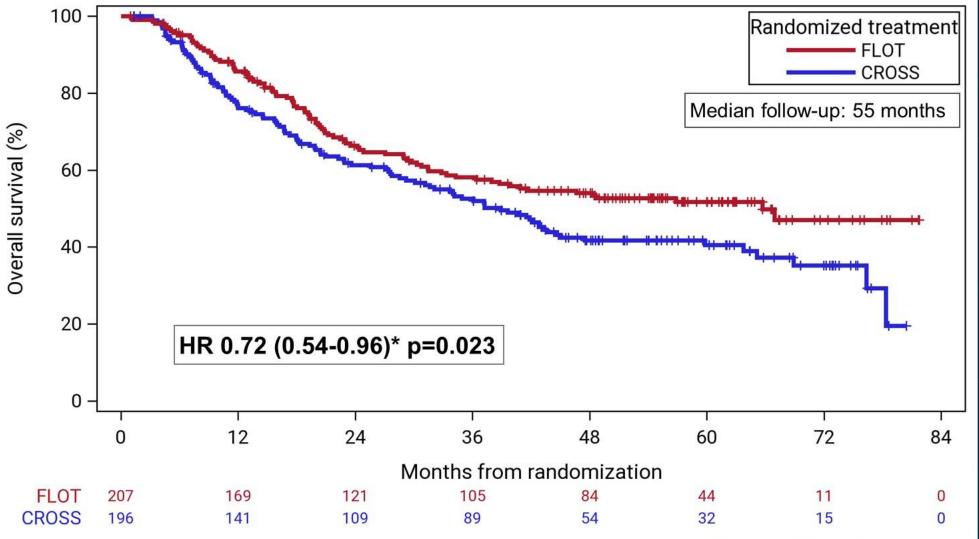
PRESENTED BY: Jens Hoeppner MD FACS FEBS

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*Two-sided 95% confidence interval; Cox regression adjusted for N stage and age, stratified for trial site



Overall Survival – PP Population



	FLOT	CROSS
Events	92	110
Median OS time (months)	66 95% CI 38 – n.e	39 95% CI 29 – 45
3-year OS rate	58.1%	52.6%
5-year OS rate	51.8%	40.5%



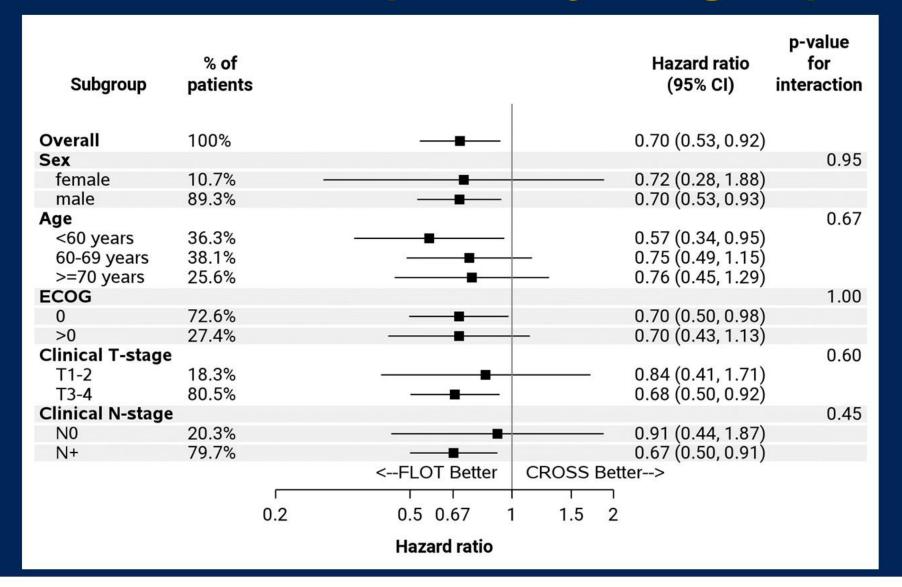


PRESENTED BY: Jens Hoeppner MD FACS FEBS

*Two-sided 95% confidence interval; Cox regression adjusted for N stage and age, stratified for trial site



Overall Survival in Exploratory Subgroups









Pathology Results – Surgery Population

	FLOT Group	CROSS Group
N	191	180
Resection status		
No resection	0.5%	1.1%
R0	94.2%	95.0%
R1	5.2%	3.9%
Postoperative N-Stage		
ypN-	50.8%	54.4%
ypN+	48.7%	44.4%
Pathological complete remission		
ypT0 ypN0	16.8%	10.0%
Tumor regression grade (Becker¹)		
Complete regression	18.3%	13.3%
Near complete regression (<10% vital tumor)	25.1%	39.4%

per local pathology assessment

KNOWLEDGE CONQUERS CANCER





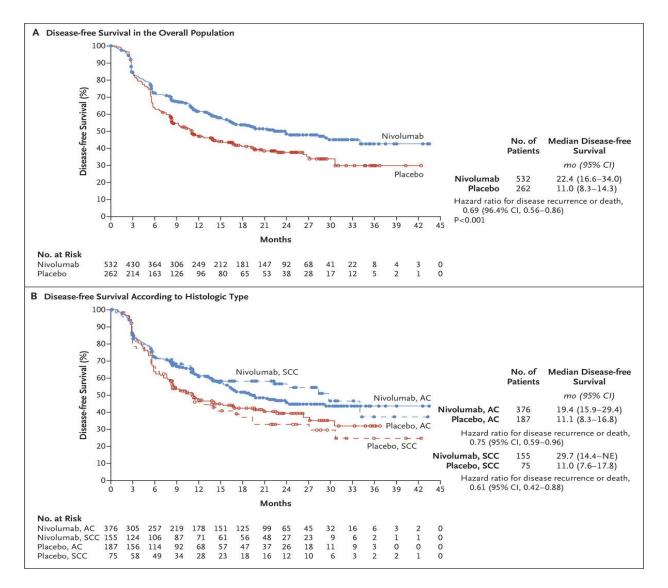
Postoperative Complications – Surgery Population **

	FLOT Group	CROSS Group
N	191	180
Postoperative morbidity		
Clavien Dindo I	20.9%	20.0%
Clavien Dindo II	13.6%	15.0%
Clavien Dindo III	23.0%	23.3%
Clavien Dindo IV	6.8%	4.4%
Postoperative mortality		
30-days	1.0%	1.7%
90-days	3.2%	5.6%

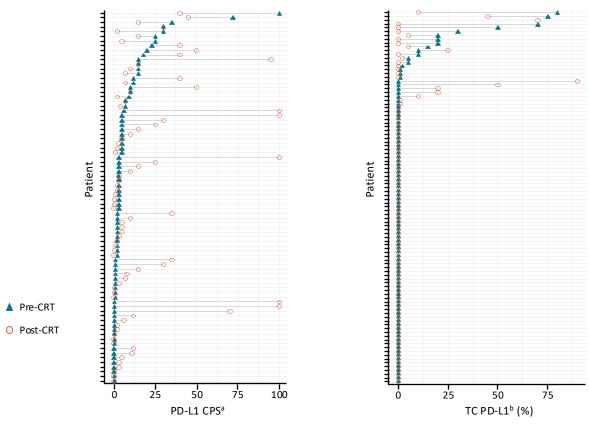




Disease-free Survival in the Intention-to-Treat Population CHECKMATE 577.



Post-CRT changes in PD-L1 expression



• Increases in PD-L1 CPS expression after neoadjuvant CRT (and prior to study treatment) were observed in 51% of PD-L1 CPS-evaluable patients^c, while TC PD-L1 expression remained unchanged in 76% of TC PD-L1-evaluable patients^d

Post-CRT changes in PD-L1 expression

	Nivolumab	Placebo	Total
PD-L1 CPS ^a evaluable, ^b n	51	29	80
Median DFS (95% CI), mo	25.1 (14.5-NE)	9.3 (5.6-26.3)	=
HR (95% CI)	0.64 (0.	36–1.15)	-
PD-L1 CPS change > 0, n (%)	23 (45)	18 (62)	41 (51)
Median DFS (95% CI), mo	NR (27.1-NE)	8.9 (5.6-NE)	_
HR (95% CI)	0.30 (0.	11-0.78)	_
PD-L1 CPS change = 0, n (%)	7 (14)	4 (14)	11 (14)
Median DFS (95% CI), mo	16.0 (1.9-NE)	5.5 (5.4-22.8)	_
HR (95% CI)	N	1A ^c	=
PD-L1 CPS change < 0, n (%)	21 (41)	7 (24)	28 (35)
Median DFS (95% CI), mo	8.3 (2.8-19.4)	15.1 (2.8-NE)	=
HR (95% CI)	N	1A ^c	=
TC PD-L1 ^d evaluable, ^e n	65	33	98
Median DFS (95% CI), mo	25.1 (14.5-NE)	7.1 (5.6–15.1)	_
HR (95% CI)	0.56 (0.	33-0.96)	-
TC PD-L1 change > 0, n (%)	6 (9)	2 (6)	8 (8)
Median DFS (95% CI), mo	19.8 (2.8-NE)	NA	=
HR (95% CI)	N	1A ^c	=
TC PD-L1 change = 0, n (%)	49 (75)	25 (76)	74 (76)
Median DFS (95% CI), mo	23.4 (9.8-NE)	5.6 (5.4-15.1)	_
HR (95% CI)	0.51 (0.	0.51 (0.28-0.91)	
TC PD-L1 change < 0, n (%)	10 (15)	6 (18)	16 (16)
Median DFS (95% CI), mo	39.2 (3.6-NE)	NR (2.9-NE)	_
HR (95% CI)		1A ^c	=

[•] The magnitude of DFS benefit appeared to be greater with nivolumab vs placebo in patients with an increase in PD-L1 CPS post-CRT (HR, 0.30 [95% CI, 0.11–0.78]) compared with the overall PD-L1 CPS-evaluable population^b (HR, 0.64 [95% CI, 0.36–1.15])

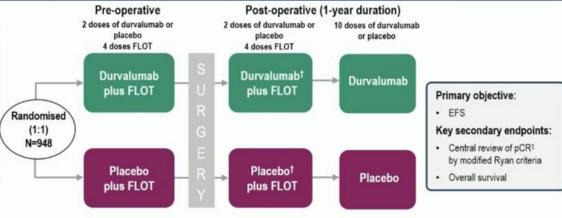
MATTERHORN is a global, Phase 3, randomised, double-blind, placebo-controlled study

Study population

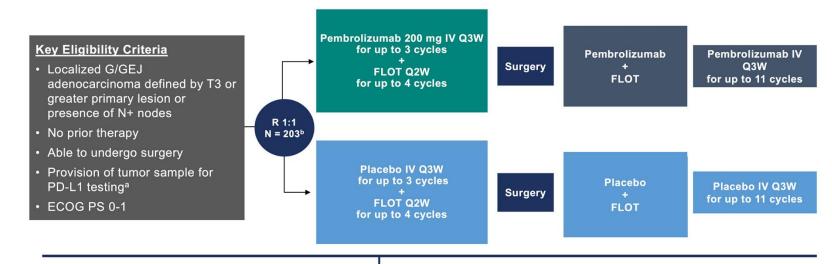
- · Gastric and GEJ adenocarcinoma
- Stage II, III and IVA (>T2 N0-3 M0 or T0-4 N+ M0)
- · No evidence of metastasis
- · No prior therapy
- ECOG PS 0 or 1
- Global enrolment from Asia, Europe, North America and South America

Stratification factors

- · Geographic region: Asia versus non-Asia
- Clinical lymph node status: positive versus negative
- PD-L1 status: TAP <1% versus TAP ≥1%*



Durvalumab 1500 mg or placebo Q4W (Day 1) plus FLOT Q2W (Days 1 and 15) for 4 cycles (2 doses of durvalumab or placebo plus 4 doses of FLOT pre- and post-operative) followed by durvalumab or placebo Q4W (Day 1) for 10 further cycles



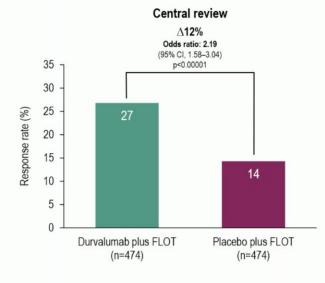
Stratification factors

- · Geographic region (Asia versus non-Asia)
- Tumor staging (II vs III vs IVa)
- Chemotherapy backbone (XP/FP vs FLOT)

Endpoints:

- Primary: safety
- Key secondary: pathCR rate per BICR, EFS per investigator, OS

Combined complete and near-complete pathological response



Near-complete pathological response = single or rare small groups of cancer cells at time of resection per modified Ryan criteria

Participants achieve pCR if there is no residual viable turnour cells found at primary turnour and resected lymph nodes at the time of resection, meaning a pathological regression of -100%, based on central (or local) assessment CI, confidence interval; FLOT, fluorouracil, leucovorin, oxaliplatin, and docetaxet; pCR, pathological complete response.

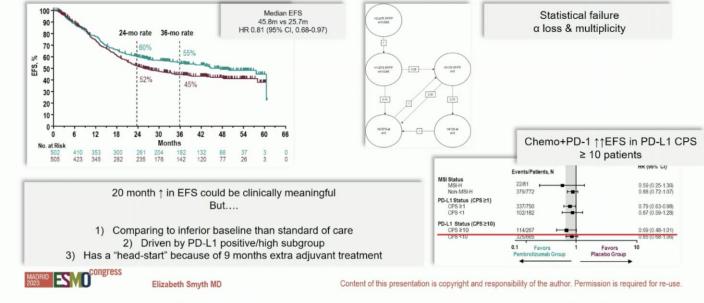


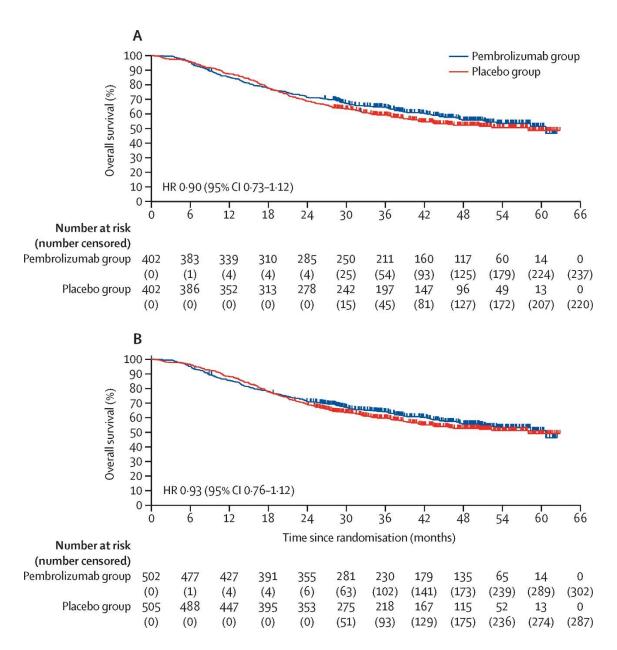
Salah-Eddin Al-Batran

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KEYNOTE 585 event free survival

Improved pCR fails to translate into better EFS for most patients

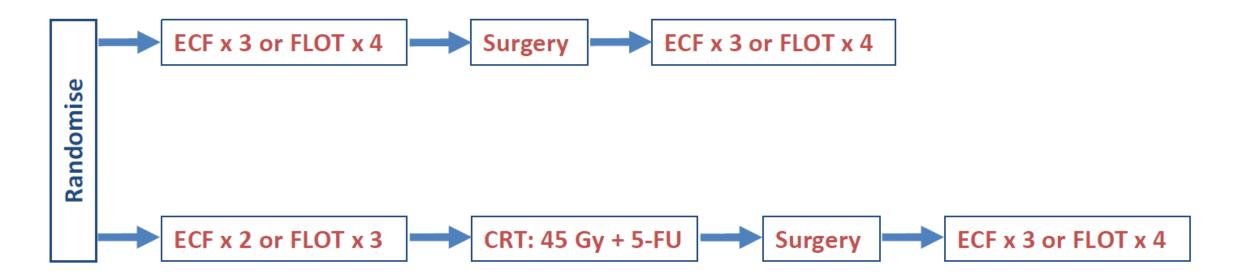




The Lancet Volume 25, Issue 2P212-224February 2024

TOPGEAR

Key eligibility criteria: resectable adenocarcinoma of stomach or GOJ (Siewert type II ≤ 2cm oesophageal involvement, and Siewert type III); stage IB–IIIC, ie.T3–T4 and/or N-positive





ECF = epirubicin, cisplatin, 5-FU FLOT = 5-FU, leucovorin, oxaliplatin, docetaxel

Treatment compliance

Treatment	Pro	eop CRT	Periop CT		P-value
	N	n (%)	N	n (%)	
Received preop chemotherapy	286	270 (94.4%)	288	263 (91.3%)	0.15
Received postop chemotherapy					
patients undergoing surgery	241	115 (47.7%)	256	151 (59.0%)	0.01
all randomised patients	286	159 (56%)	288	190 (66%)	0.01
Received chemoradiotherapy	286	259 (90.6%)			
completed 45Gy	259	238 (91.9%)			
Received surgery					
all randomised patients	286	241 (84.3%)	288	256 (88.9%)	0.10
curative intent	286	228 (79.7%)	288	244 (84.7%)	

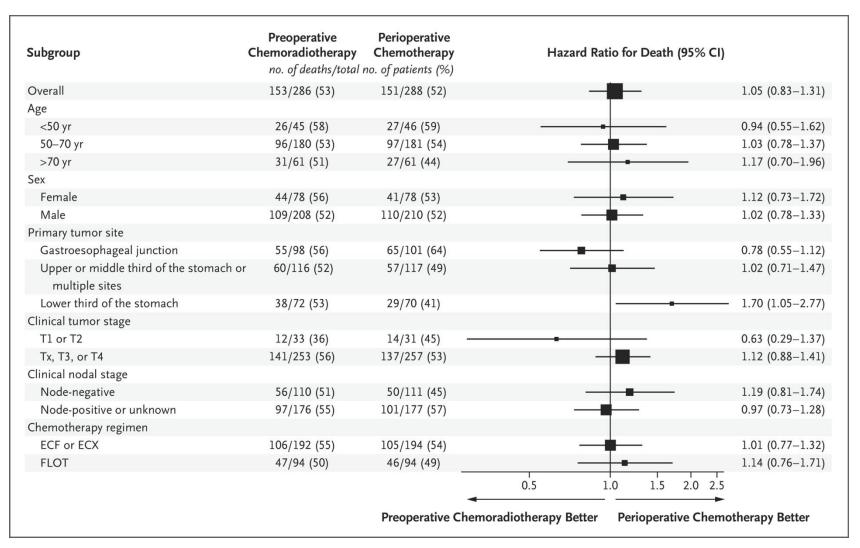


Surgical and pathological outcomes

	Preop CRT N=286	Periop CT N=288	P-value
D1+ or D2 lymphadenectomy	188 (83.6%)	192 (81.0%)	
RO resection	208 (92.4%)	206 (87.7%)	0.09
R1 resection	15 (6.7%)	29 (12.3%)	
ypTNM stage:	(N=231)	(N=247)	
ypT0, ypTis	38 (16.5%)	18 (7.3%)	<0.001
ypT1/2	73 (31.6%)	62 (25.2%)	
ypT3/4	120 (51.9%)	166 (67.5%)	
ypN negative	125 (54.1%)	104 (42.3%)‡	<0.01
ypN positive	106 (45.9%)	142 (57.7%)	
Pathological Response:			
Grade 1a: 0% residual tumour (pCR)	36 (16.8%)	18 (8.0%)	< 0.0001
Grade 1b: <10% residual tumour	70 (32.7%)	48 (21.3%)	
Grade 2: 10-50% residual tumour	61 (28.5%)	69 (30.7%)	
Grade 3: >50% residual tumour	47 (22.0%)	90 (40.0%)	



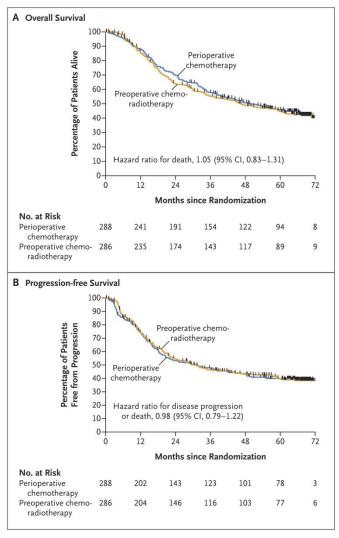
Treatment Effect on Overall Survival According to Prespecified Subgroups.



Leong T et al. N Engl J Med2024;391:1810-1821



Overall Survival and Progression-free Survival.

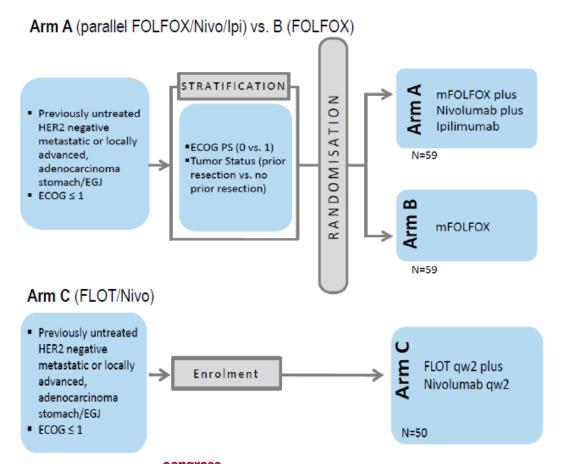


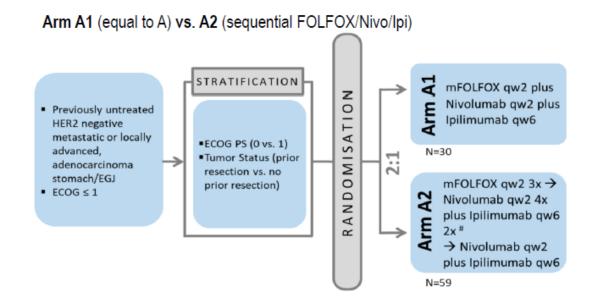
Leong T et al. N Engl J Med2024;391:1810-1821



IKF-AIO-Moonlight Study Design

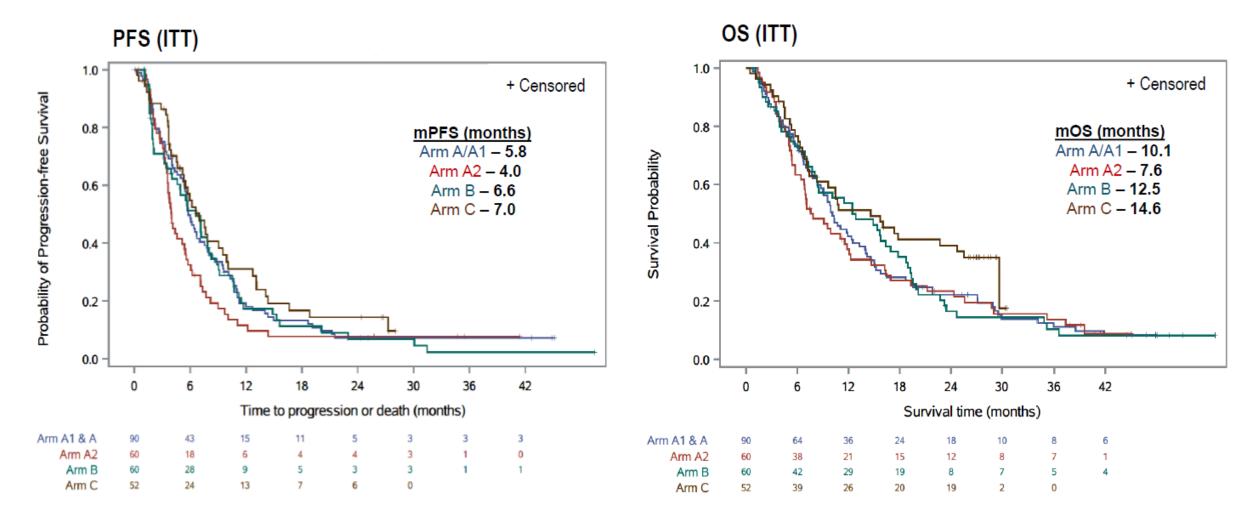
The IKF-AIO-Moonlight study is a four-arm investigator-initiated phase II trial





Note: Arm A and A1 were pooled in the analyses presented here

Progression-free and Overall Survival all arms





Updated Results From 1L Nivolumab + CT vs CT for Advanced GEJ Cancers (CheckMate 649): Study Design

International, randomized, open-label phase III trial

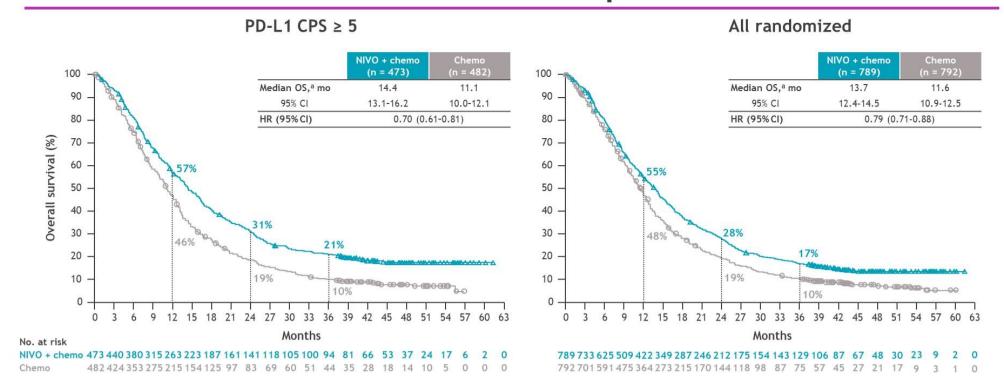
Stratified by PD-L1 (≥1% vs <1%), region (Asia vs US/Canada vs rest This Analysis of world), ECOG PS (0 vs 1), CT (XELOX vs FOLFOX) Nivolumab 360 mg + XELOX Q3W or Nivolumab 240 mg + FOLFOX Q2W Until PD Patients with previously (n = 789)(treatment untreated, unresectable beyond PD advanced or metastatic **XELOX** Q3W or permitted for gastric cancer, GEJ, or FOLFOX Q2W nivolumab + CT), esophageal adenocarcinoma; (n = 833)unacceptable not known to be HER2 toxicity, consent positive; ECOG PS 0/1 withdrawal, or Nivolumab + Ipilimumab Q3W x 4 followed by end of study (N = 2031)Nivolumab 240 mg Q2W

Coprimary endpoints: OS and PFS in patients with PD-L1 CPS ≥5 Secondary endpoints: OS and PFS in all randomized patients and patients with PD-L1 CPS ≥10 and ≥1, BICR-assessed ORR

Median follow-up: 24.0 mo in nivolumab + CT arm



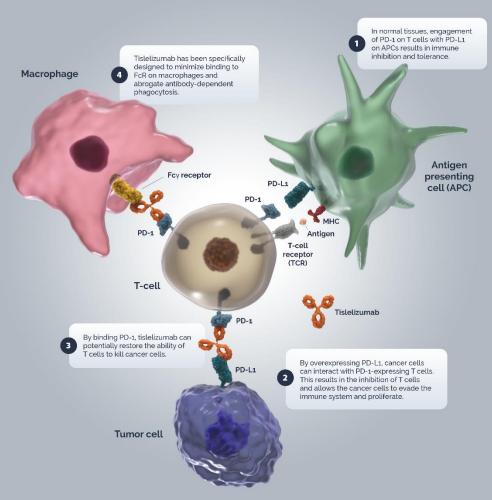
Overall survival: 36-month follow-up

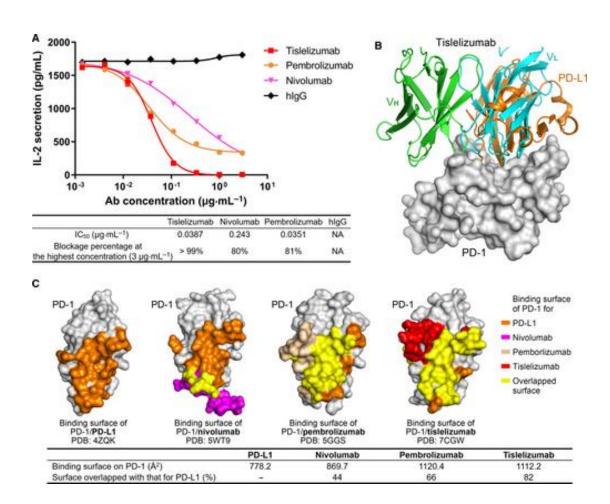


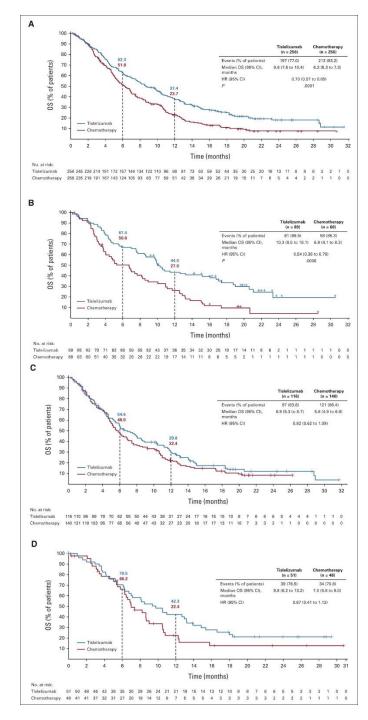
Clinically meaningful improvement in OS with NIVO + chemo vs chemo was maintained with longer follow-up in PD-L1
CPS ≥ 5 and all randomized populations

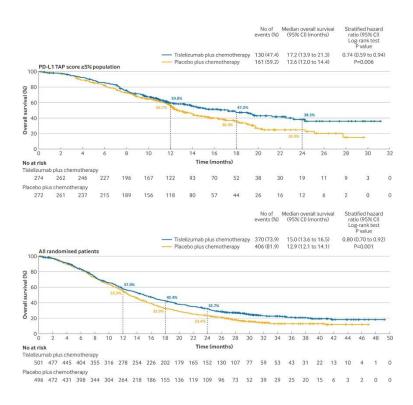
^aMinimum follow-up, 36.2 months.

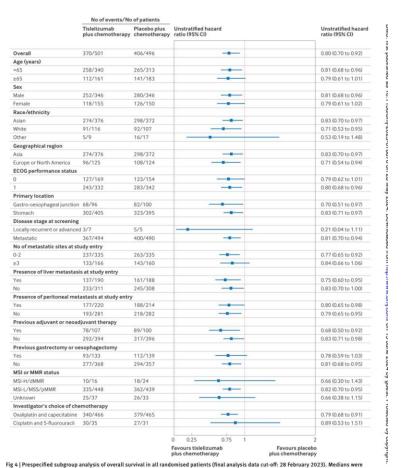
Tislelizumab (BGB-A317) — A humanized IgG4 anti-PD-1 monoclonal antibody





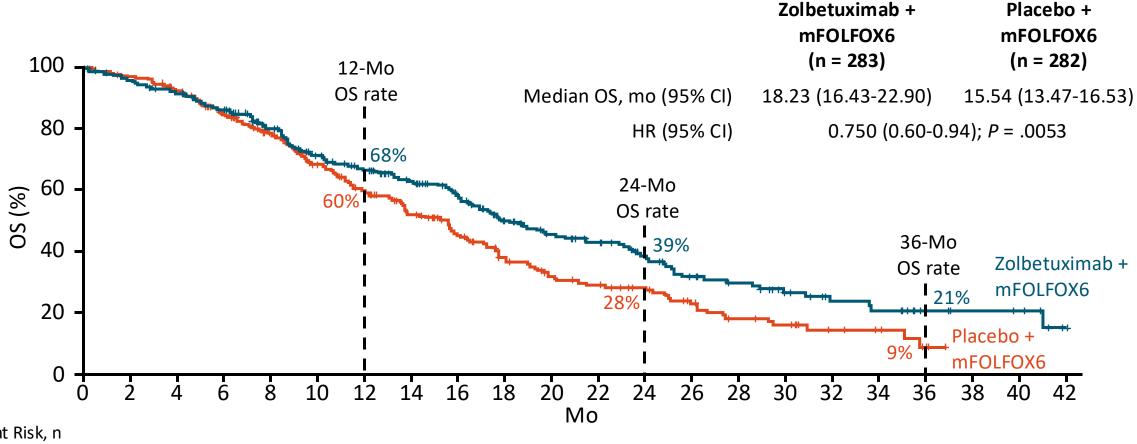






rig a | respectives outgroup analysis or overall survival in all randomises patients (final analysis data cur-on: 26 rebriary 2023), medians were estimated by the Kaplan-Meier method with 95% (is estimated using the method of Brookmeyer and Crowley using log-log transformation. Hazard ratios and corresponding 95% CIs were estimated from unstratified Cox regression model including treatment as covariate. The race subcategory "other" includes not reported, unknown, and other. CI=confidence interval; dMMR=mismatch repair-deficient; ECOG=Eastern Cooperative Oncology Group; MS1-(I+mircrosatellitie instability-low/high; MS5-mircrosatellite stable; MMR=mismatch repair-proficient

SPOTLIGHT: OS



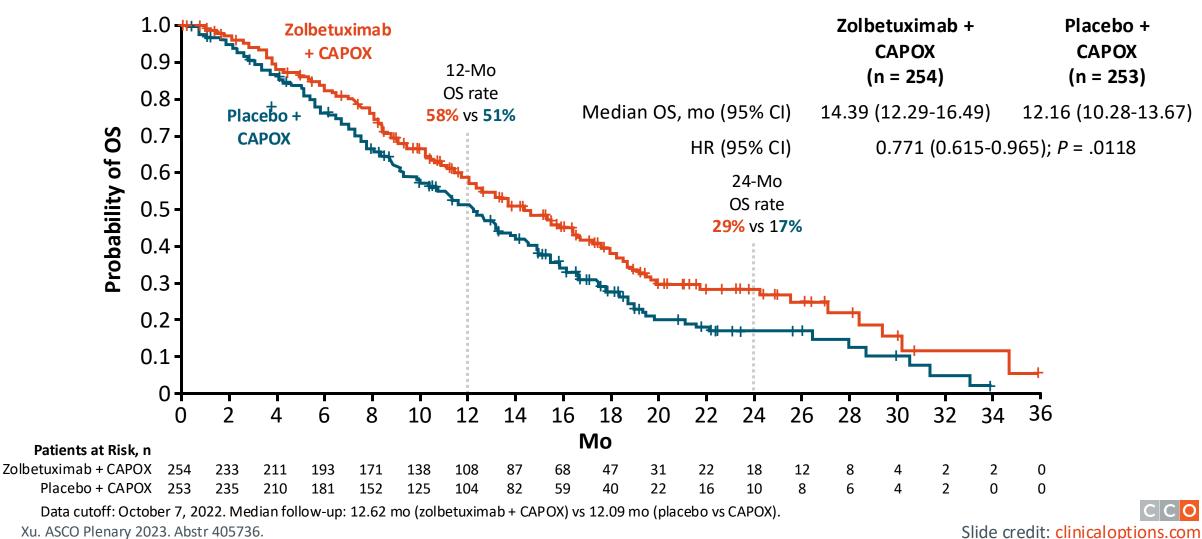
Patients at Risk, n

Olbetuximab + mFOLFOX6 283 270 264 255 251 241 233 217 196 178 164 152 146 135 125 117 107 93 83 75 70 67 62 58 49 42 34 32 30 27 23 20 15 15 13 13 9 8 7 7 6 4 1 0 Placebo + mFOLFOX6 282 277 271 266 253 242 224 210 197 183 164 152 139 129 108 101 85 77 64 60 49 42 40 36 34 30 25 21 18 17 15 9 8 7 6 5 2 0 0 0 0 0 0 0 0

Data cut-off: September 9, 2022. Median follow-up: 22.14 mo (zolbetuximab + FOLFOX6) vs 20.93 mo (placebo vs FOLFOX6).

Shitara. Lancet. 2023.

GLOW: OS



Xu. ASCO Plenary 2023. Abstr 405736.

SPOTLIGHT: TEAEs in ≥20% of Patients

Adverse Event 9/	Zolbetuximab + mFOLFOX6 (n = 279)		Placebo + mFOLFOX6 (n = 278)	
Adverse Event, %	All Grade	Grade ≥3	All Grade	Grade ≥3
Nausea	81.0	16.1	60.8	6.5
Vomiting	64.5	16.1	34.5	5.8
Decreased appetite	47.0	5.7	33.5	3.2
Diarrhea	38.7	4.3	43.9	3.2
Peripheral sensory neuropathy	38.0	3.9	42.4	5.4
Neutropenia	36.2	28.3	33.8	23.4
Anemia	35.5	8.6	37.1	9.4
Constipation	35.5	1.1	37.1	9.4
Neutrophil count decreased	34.1	24.7	32.0	24.8
Fatigue	28.0	6.1	32.0	5.0
Asthenia	24.7	7.2	22.3	2.5
Abdominal pain	23.3	4.3	28.8	2.2
Stomatitis	20.8	2.5	20.1	1.1

