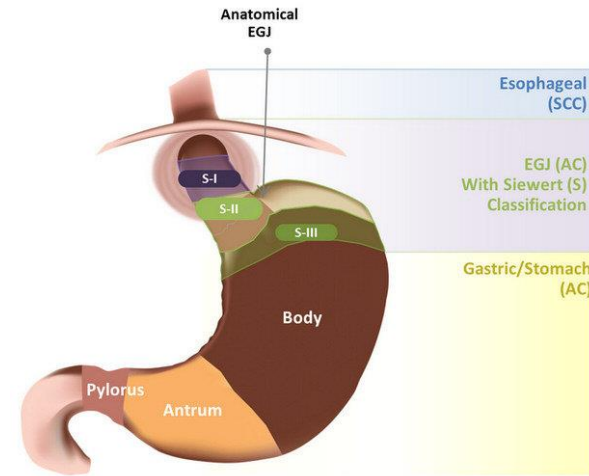


20<sup>th</sup> Annual California Cancer Consortium Conference  
August 24, 2024



# New Developments in Esophageal and Gastric Cancer

Sandy Algaze, MD

**USC** Norris  
Comprehensive  
Cancer Center  
Keck Medicine of **USC**

# Update of Esophagogastric Cancer

## Early Stage:

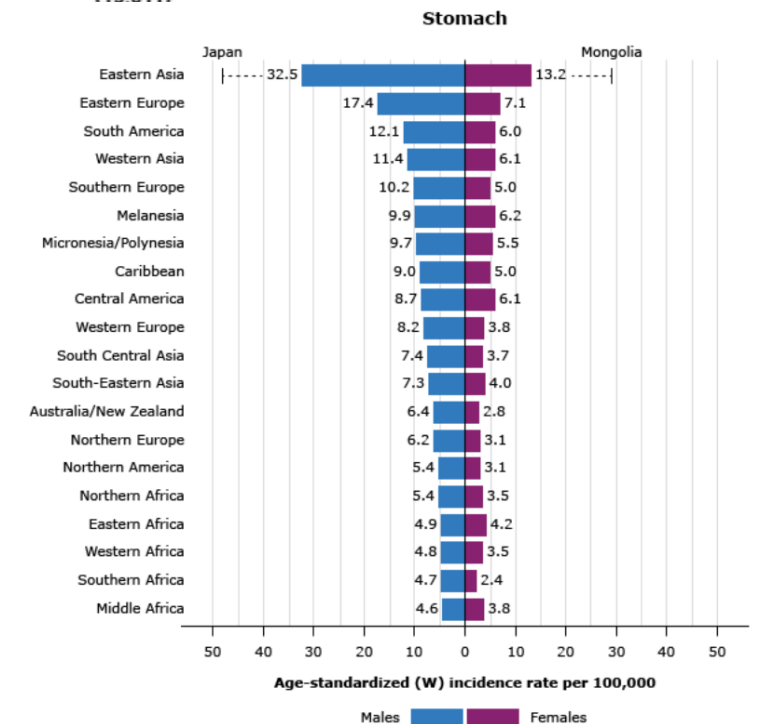
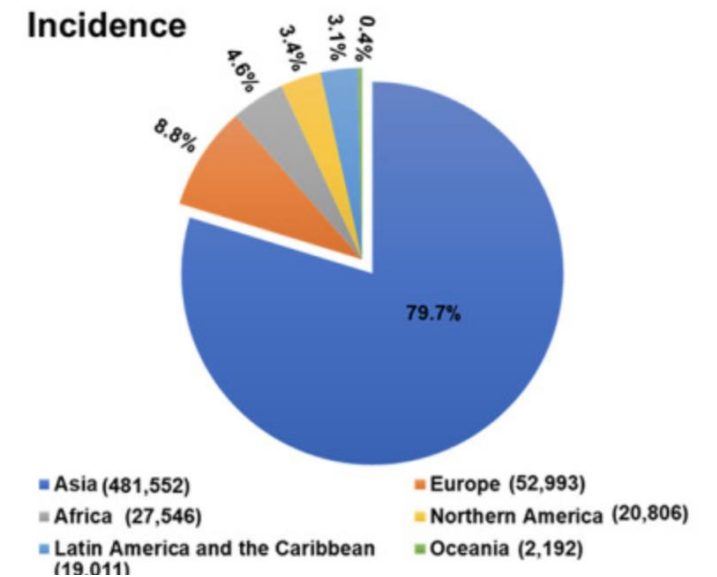
- Perioperative FLOT vs Chemoradiation
- Perioperative Chemotherapy and Immunotherapy

## Advanced:

- First line Chemotherapy and Immunotherapy
- Claudin 18.2 – New Target
- HER2 + Gastric Cancer
- Novel Targets

# Esophagogastric Cancers

- > 22,000 annual cases of esophageal cancer (EC) with > 16,000 deaths from the disease in the US
- Gastric cancer is the fifth leading cause of cancer and fourth leading cause of cancer deaths worldwide
- incidence varies worldwide by geographic region



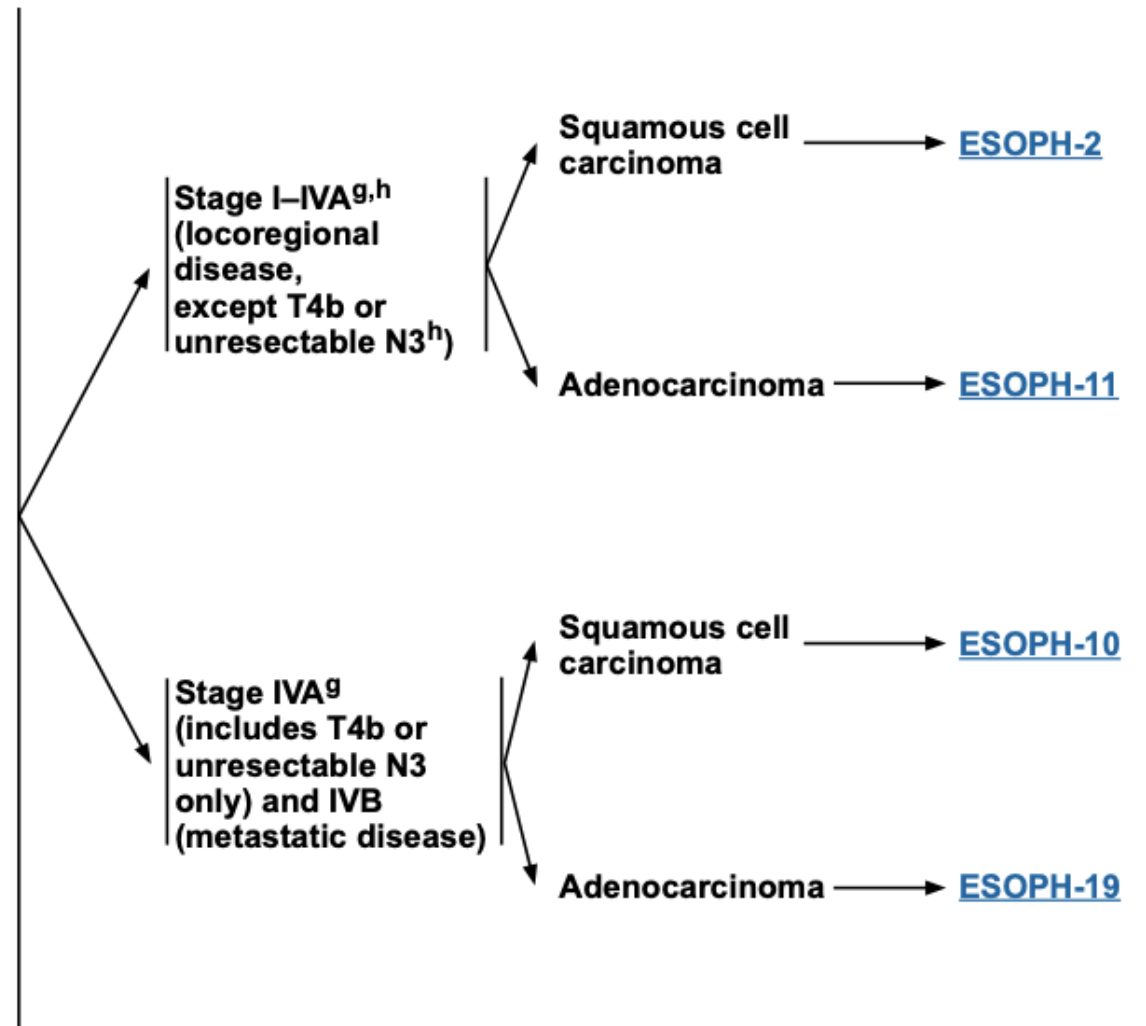
# Work up and Staging

## WORKUP

- H&P
- Upper gastrointestinal (GI) endoscopy and biopsy<sup>a</sup>
- Chest/abdomen CT with oral and IV contrast
- Pelvis CT with contrast as clinically indicated
- FDG-PET/CT evaluation (skull base to mid-thigh) if no evidence of M1 disease
- Complete blood count (CBC) and comprehensive chemistry profile
- Endoscopic ultrasound (EUS), if no evidence of M1 unresectable disease
- Endoscopic resection (ER) is recommended for the accurate staging of early-stage cancers (T1a or T1b).<sup>a,b</sup> Early-stage cancers can best be diagnosed by ER
- Biopsy of metastatic disease as clinically indicated
- Universal testing for microsatellite instability (MSI) by PCR/next-generation sequencing (NGS) or MMR by IHC is recommended in all newly diagnosed patients<sup>c</sup>
- Programmed death ligand 1 (PD-L1) testing if advanced/metastatic disease is documented/suspected<sup>c</sup>
- HER2 testing if metastatic adenocarcinoma is documented/suspected<sup>c</sup>
- NGS should be considered<sup>c</sup>
- Bronchoscopy, if tumor is at or above the carina with no evidence of M1 disease
- Assign Siewert category<sup>d</sup>
- Nutritional assessment and counseling
- Smoking cessation advice, counseling, and pharmacotherapy as indicated<sup>e</sup>
- Screen for family history<sup>f</sup>

## CLINICAL STAGE<sup>g</sup>

## HISTOLOGIC CLASSIFICATION<sup>c</sup>

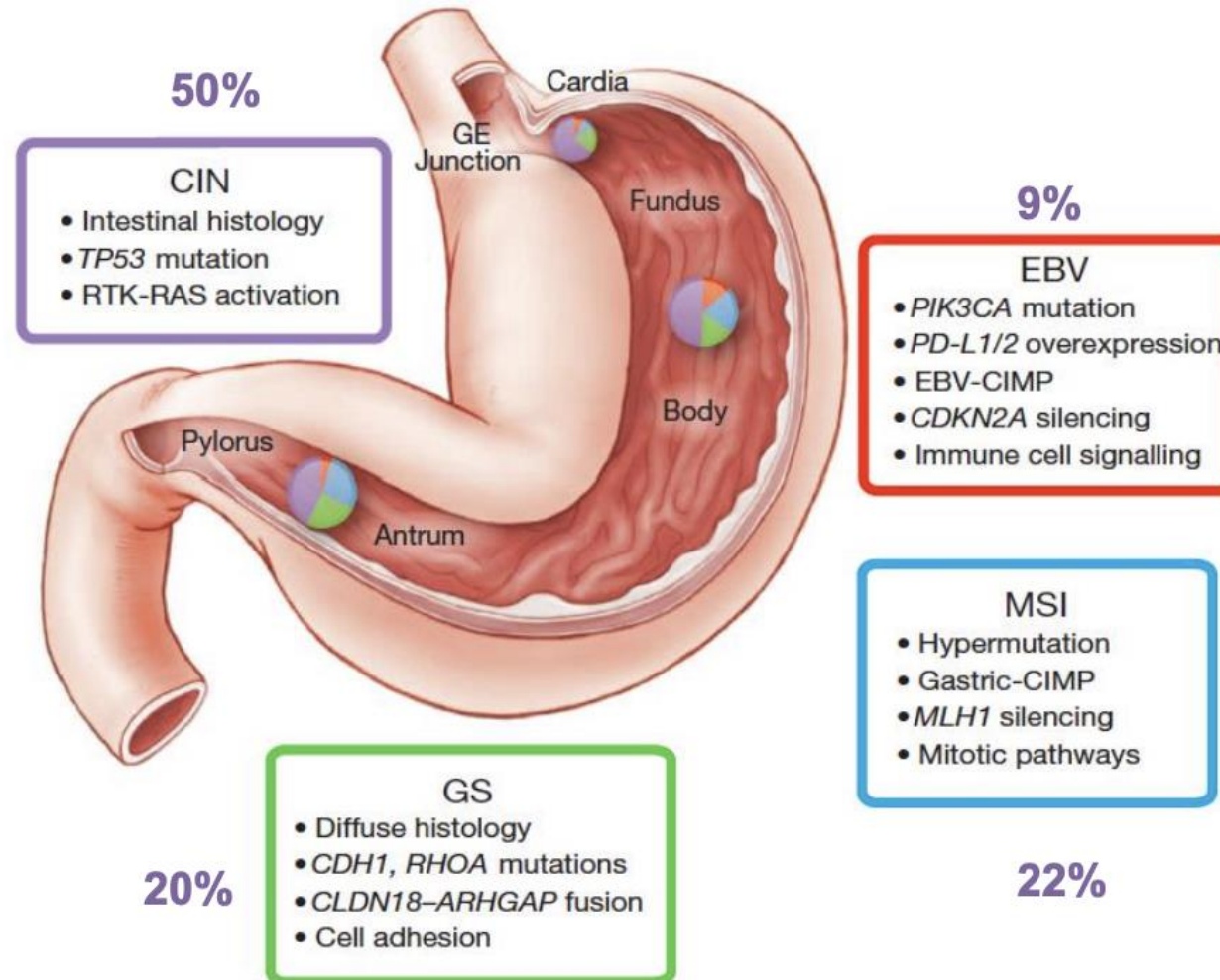


# Molecular Testing in Esophagogastric Cancer

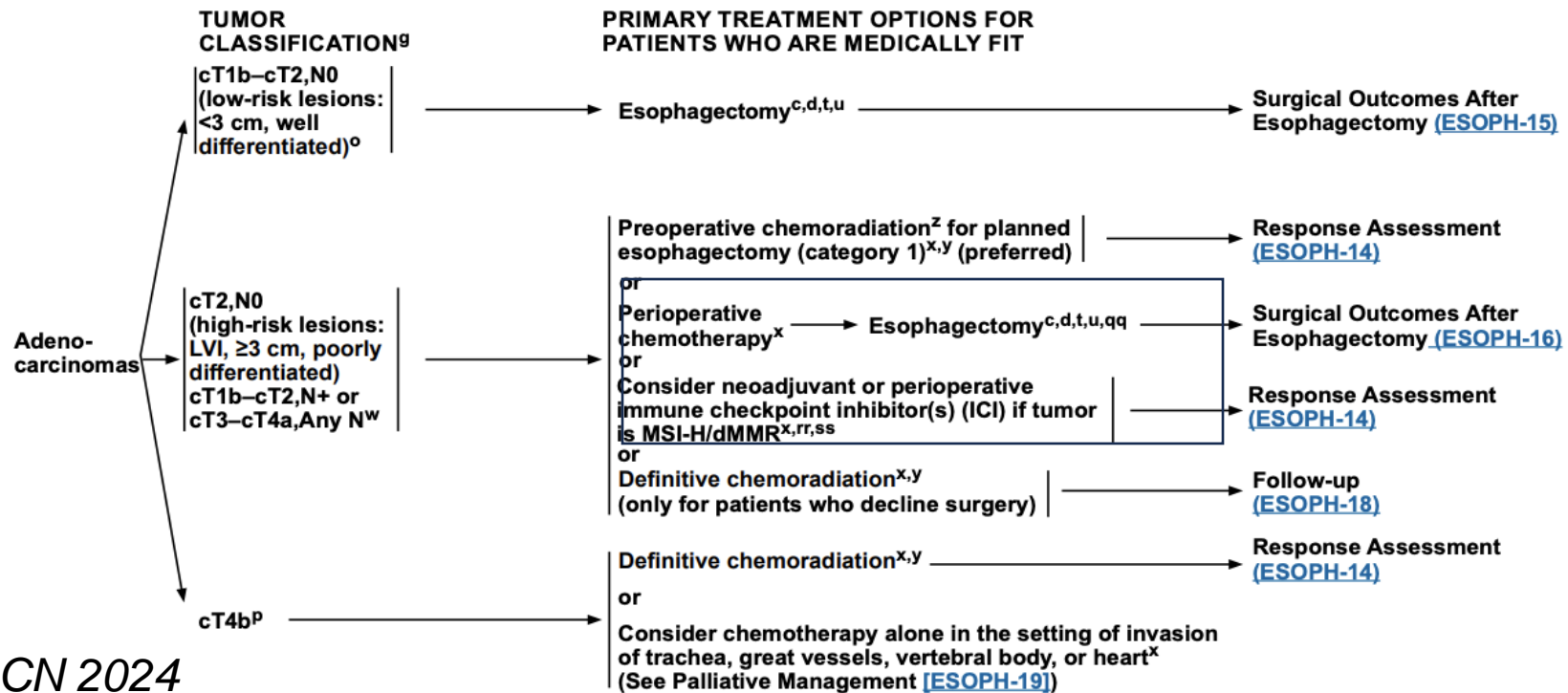
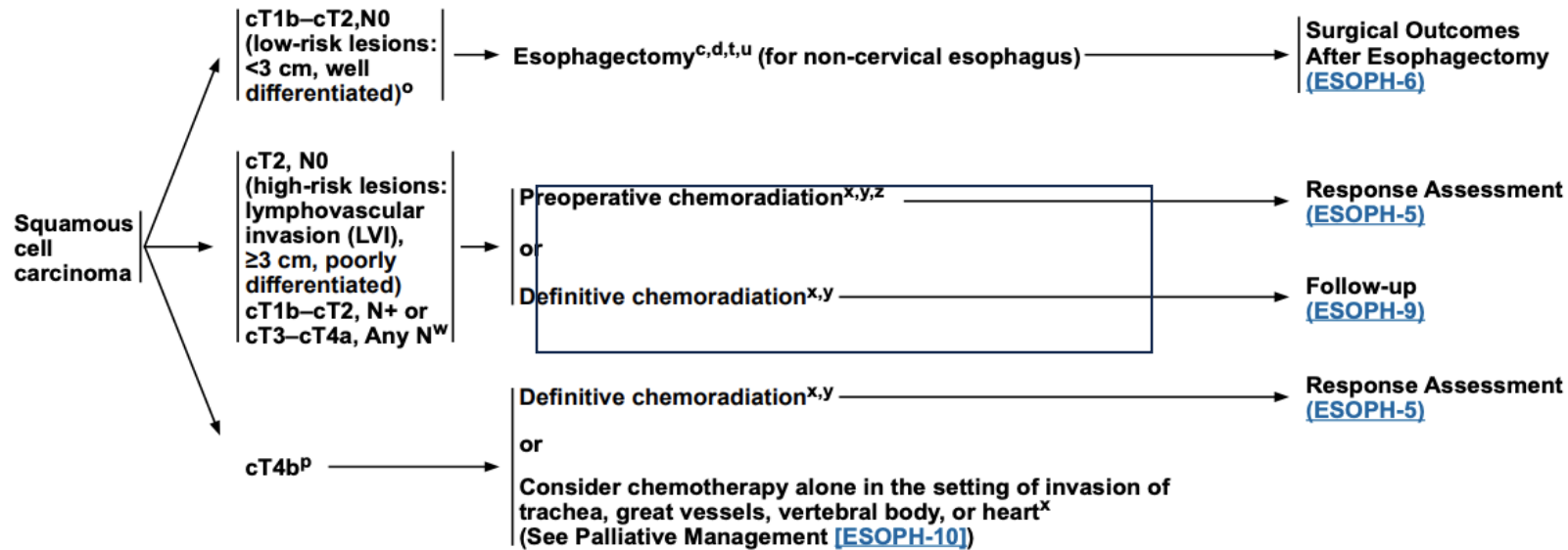
- **MMR testing** in all Esophagogastric Cancers
- **PDL-1 CPS testing** in Esophagogastric CA
  - Nivolumab + chemo in CPS  $\geq 5$  HER2 negative GEA (CM649)
  - Pembrolizumab + chemo in CPS  $\geq 10$  esophageal CA (KN590)
  - Pembrolizumab +chemo in CPS  $\geq 1$  gastric, GEJ (KN859)
- **HER2 testing** in all Esophagogastric CA
  - Trastuzumab + chemo + pembrolizumab in 1L HER2+ GEA (KN-811) in CPS  $\geq 1$
  - Trastuzumab deruxtecan (DS-8201) in 2L+ HER2+ GEA (Destiny-Gastric-01/02)
- **CLDN18.2** – emerging treatment option
  - Zolbetuximab 1L (GLOW, SPOTLIGHT)

Patients' Characteristics		Total 350 n. (%)	CLDN18 < 75% Tot 233 n. (% of the Total)	CLDN18 $\geq$ 75% Tot 117 n. (%of the Total)	p Value
MMRd	Yes	54 (15.4)	39 (11.1)	15 (4.3)	0.2424
	No	296 (84.6)	194 (55.4)	102 (29.1)	
HER 2 status	Positive	52 (14.9)	35 (10.0)	17 (4.9)	1.000
	Negative	298 (85.1)	198 (56.6)	100 (28.6)	
PD-L1 CPS $\geq 1$	Yes	98 (28)	68 (19.4)	30 (8.6)	0.5685
	No	252 (72)	165 (47.14)	87 (24.86)	
PD-L1 CPS $\geq 5$	Yes	71 (20.29)	50 (14.29)	21 (6)	0.5290
	No	279 (79.71)	183 (52.29)	96 (27.43)	
EBER	Positive	8 (2.3)	1 (0.3)	7 (20.0)	<b>0.0024</b>
	Negative	342 (97.7)	232 (66.3)	110 (31.4)	
p53 status	Altered	168 (48.0)	111 (31.7)	57 (16.3)	0.9676
	wild type	181 (52.0)	121 (34.6)	60 (17.1)	
E-Cadherin status	Positive	268 (77.0)	177 (50.9)	91 (26.1)	0.9148
	Negative	80 (23.0)	54 (15.5)	26 (7.5)	

# Molecular Classification

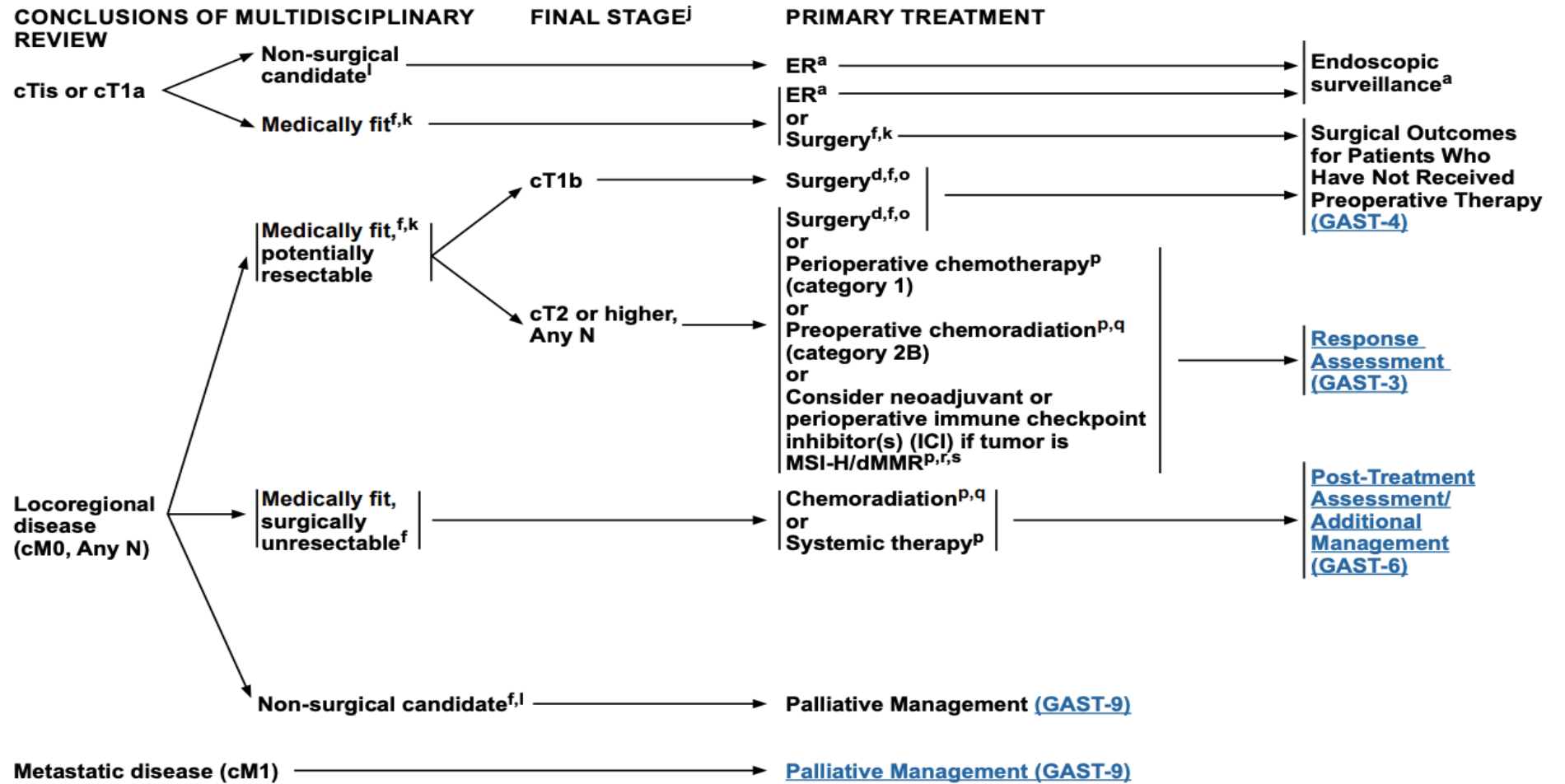


# Early Esophageal Cancer



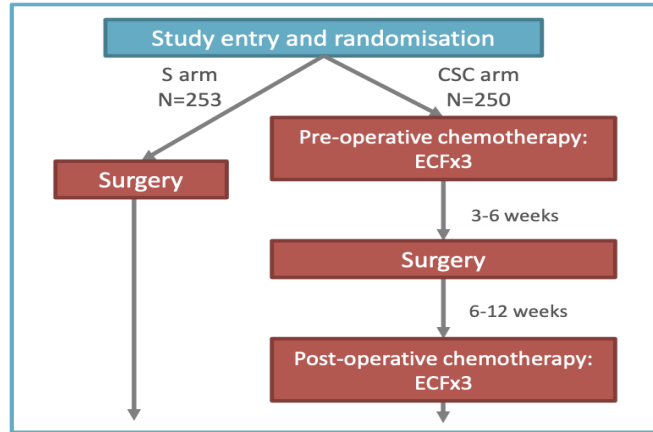


# Early Gastric Cancer

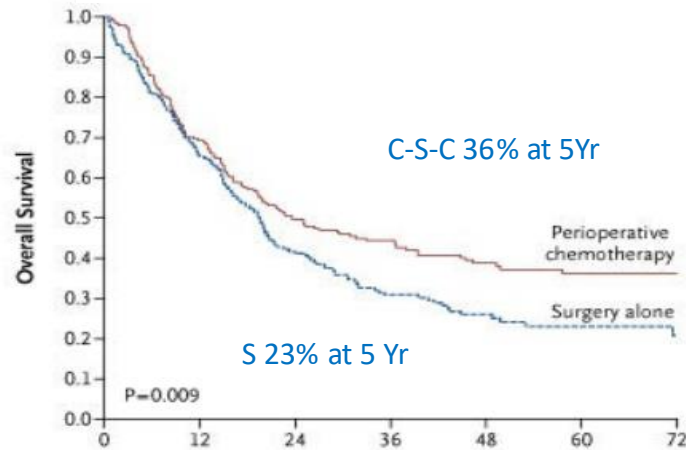




## MAGIC Trial



B



	2 year survival	5 year survival	Median survival
CSC	50%	36%	24 mo
S	41%	23%	20 mo
<b>Benefit to CSC arm</b>	<b>9%</b>	<b>13%</b>	<b>4 mo</b>

Cunningham et al. NEJM 2012

## FLOT4

Randomised, multicentre, Phase II/III Study

- Gastric or EGJ cancer typ I-III
- Medically and anatomically operable
- cT2-4/cN-any/cM0 or cT-any/cN+/cM0

Stratification

R  
n=716

FLOT x4 - RESECTION - FLOT x4

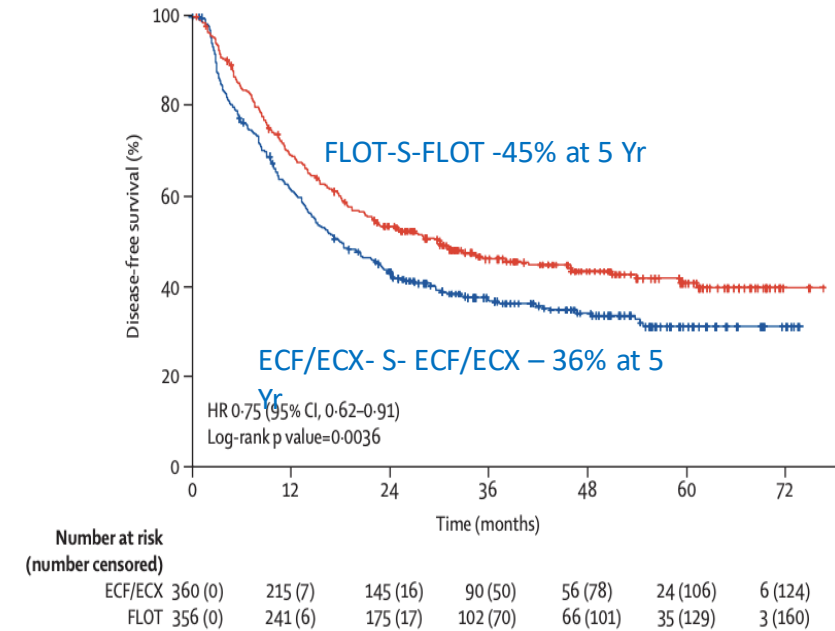
FLOT: Docetaxel 50mg/m<sup>2</sup>, d1; 5-FU 2600 mg/m<sup>2</sup>, d1; Leucovorin 200 mg/m<sup>2</sup>, d1; Oxaliplatin 85 mg/m<sup>2</sup>, d1, q2w

ECF/ECX x3 - RESECTION - ECF/ECX x3

ECF/ECX: Epirubicin 50 mg/m<sup>2</sup>, d1; Cisplatin 60 mg/m<sup>2</sup>, d1; 5-FU 200 mg/m<sup>2</sup> (or Capecitabine 1250 mg/m<sup>2</sup> p.o. geteil in 2 doses d1-d21), q2w

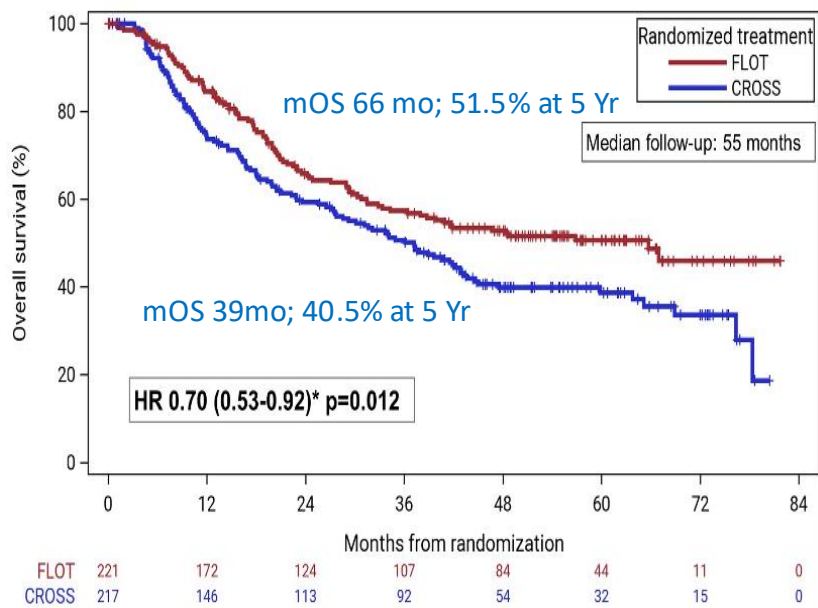
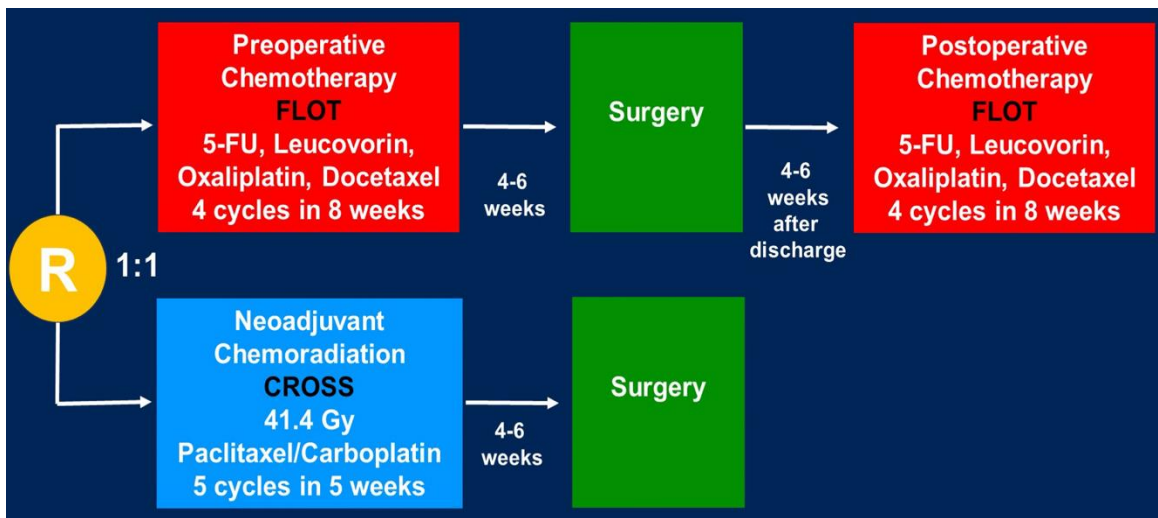
Stratification: **ECOG** (0 or 1 vs. 2), **localisation** (GEJ Type I vs. Type II/III vs. Gastric), **age** (< 60 vs. 60-69 vs. ≥70 years) and **nodal status** (cN+ vs. cN-)

B



Al-Batran et al. Lancet 2019

## ESOPEC



Hoepfner et al. ASCO 2024

## Neo-AEGIS

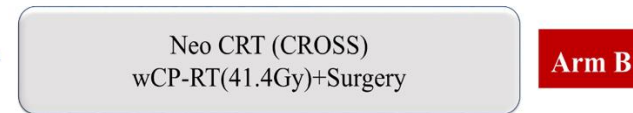
Esophageal and GEJ adenocarcinoma:  
AEG I-III  
cT2-3N0-3M0

Arm B 15% superior to A (n= 366)

Arm B 10% superior to A (n= 628)



Arm A

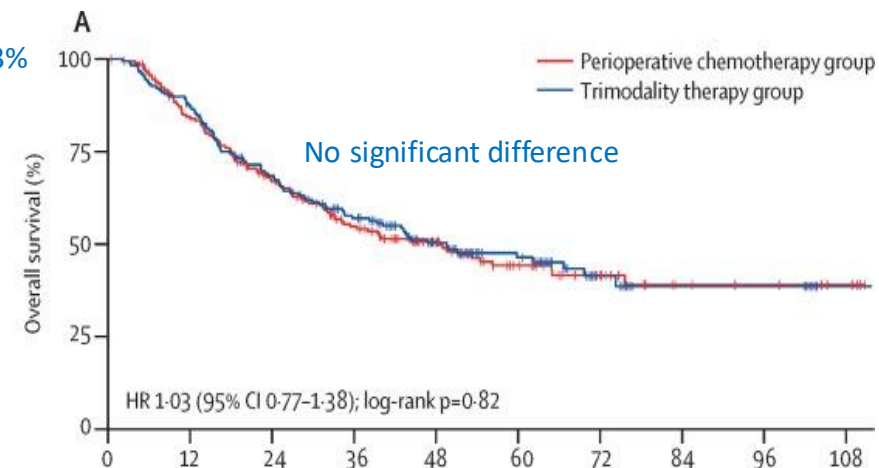


Arm B

Primary endpoint: Overall survival

Secondary end points: Disease free survival;  
Time to treatment failure; TRG; R0; Toxicity; Postoperative complications; HR-QL

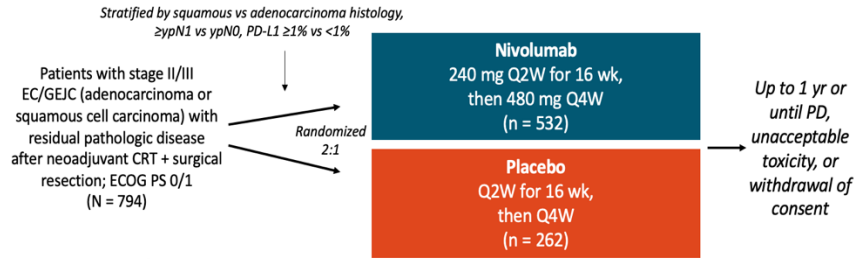
ARDS 0.6% vs 4.3%



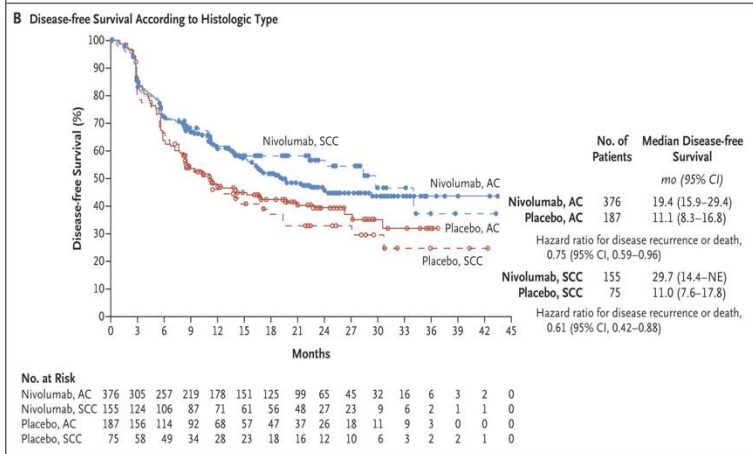
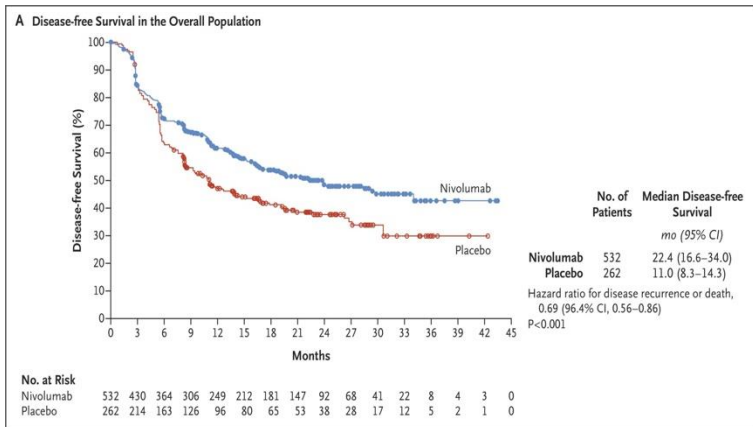
Number at risk (number censored)	0	12	24	36	48	60	72	84	96	108
Perioperative chemotherapy group	184 (0)	151 (5)	114 (11)	85 (20)	60 (39)	38 (54)	23 (67)	10 (79)	8 (81)	5 (84)
Trimodality therapy group	178 (0)	153 (2)	116 (7)	89 (15)	59 (36)	37 (54)	18 (70)	8 (79)	7 (80)	4 (83)

Reynolds et al. Lancet Gastro& Hep 2023

# Checkmate 577



- Primary endpoint: DFS
- Secondary endpoints: OS, OS rate at Yr 1, 2, and 3
- Exploratory endpoints: safety, DMFS, PFS2, QoL



Kelly RJ et al. N Engl J Med 2021;384:1191-1203

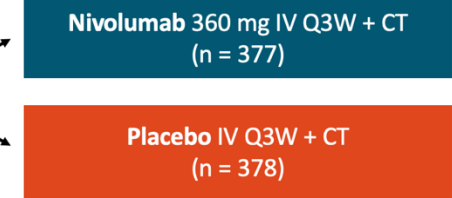
# ATTRACTION-5

Terashima et al. ASCO 2023

Stratified by stage (IIIA/IIIB/IIIC) and country (Japan/Korea/other)

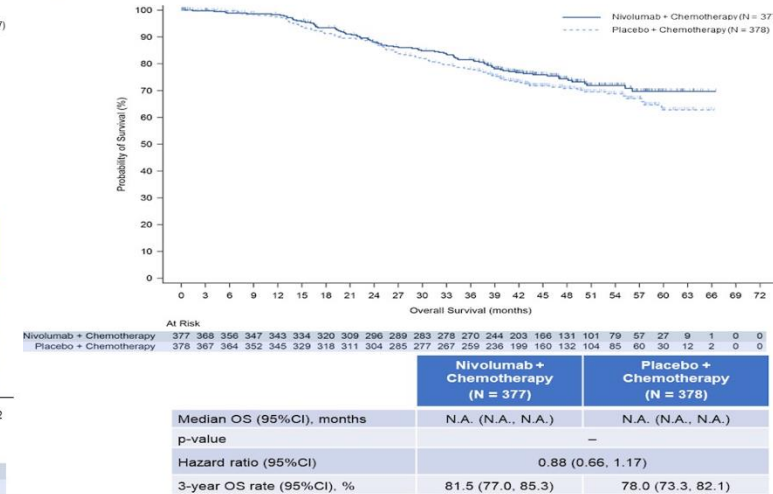
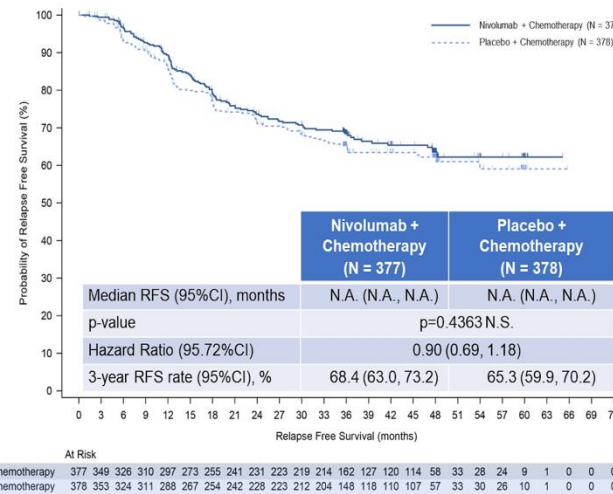
Patients with pathological stage III G/GEJ cancer; D2 or more extended gastrectomy; ECOG PS 0-1; tumor tissue available for PD-L1 analysis (N = 755)

Choice of adjuvant CT per investigator\*

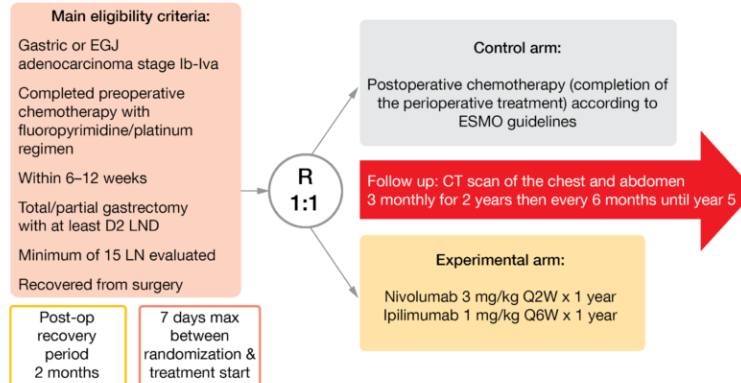


\*S-1 40 mg/m<sup>2</sup> orally BID (Days 1-28) Q6W or CapeOX (oxaliplatin 130 mg/m<sup>2</sup> IV daily [Day 1] and capecitabine 1000 mg/m<sup>2</sup> orally BID [Days 1-14] Q3W).

OS



# EORTC 1707 VESTIGE

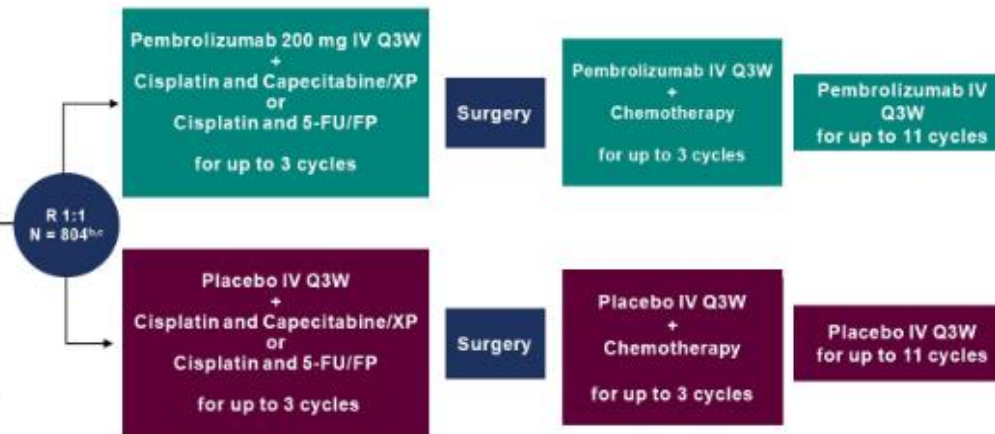


mDFS: 11.9 vs 23.3 mo (p=0.02)  
mOS: 25.1 vs NR mo (p=0.1)

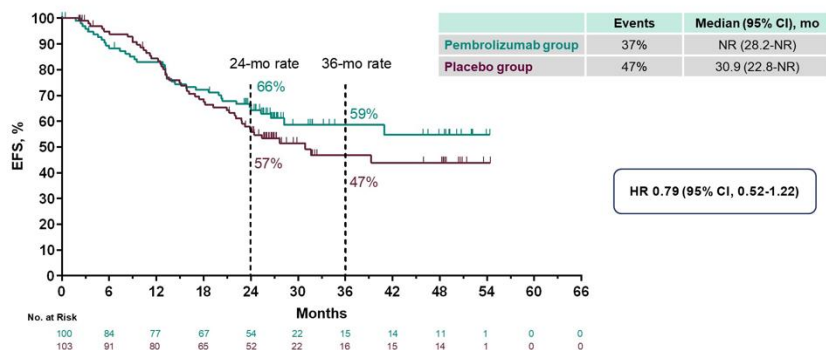
Enrollment Closed Early

Smyth et al. Annals of Oncol ESMO 2023

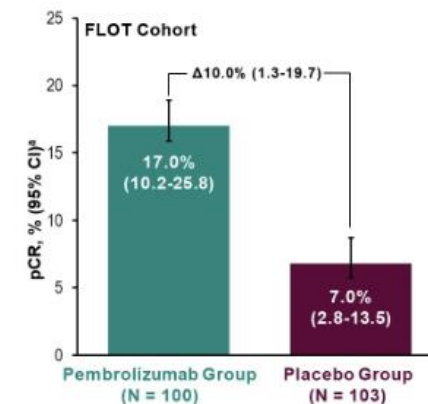
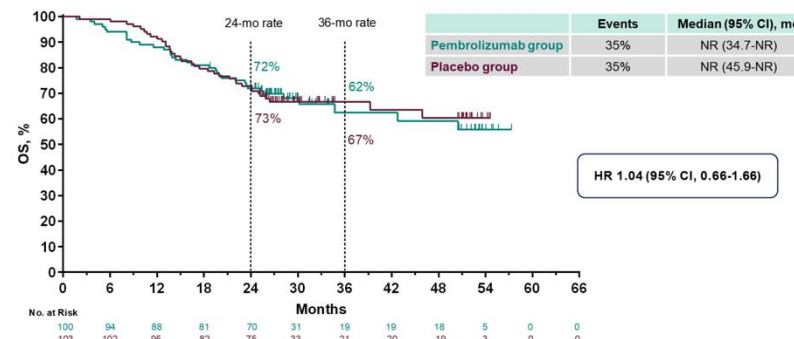
- Key Eligibility Criteria**
- Localized G/GEJ adenocarcinoma defined by T3 or greater primary lesion or presence of N+ nodes
  - No prior therapy
  - Able to undergo surgery
  - Provision of tumor sample for PD-L1 testing<sup>a</sup>
  - ECOG PS 0-1



Event-Free Survival: FLOT Cohort



Overall Survival: FLOT Cohort

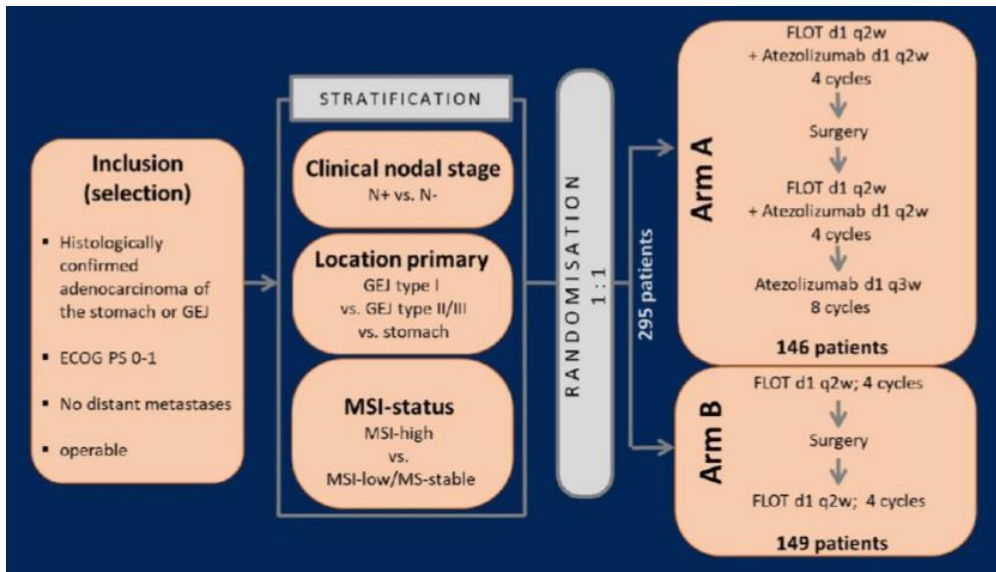


Summary of AEs by Treatment Phase

	Neoadjuvant Phase <sup>a</sup>		Adjuvant Phase	
	Pembrolizumab Group N = 99	Placebo Group N = 103	Pembrolizumab Group N = 77	Placebo Group N = 76
<b>AEs, n (%)</b>				
Any grade AEs	97 (98)	102 (99)	76 (99)	75 (99)
<b>Treatment-Related AEs</b>	96 (97)	96 (93)	73 (95)	68 (89)
Grade 3-4	54 (55)	56 (54)	43 (56)	33 (43)
Grade 5	2 (2)	1 (1)	1 (1)	0
Led to discontinuation of any drug	15 (15)	11 (11)	21 (27)	7 (9)
<b>Surgery-Related AEs</b>	19 (19)	13 (13)	1 (1)	2 (3)



## Dante Trial



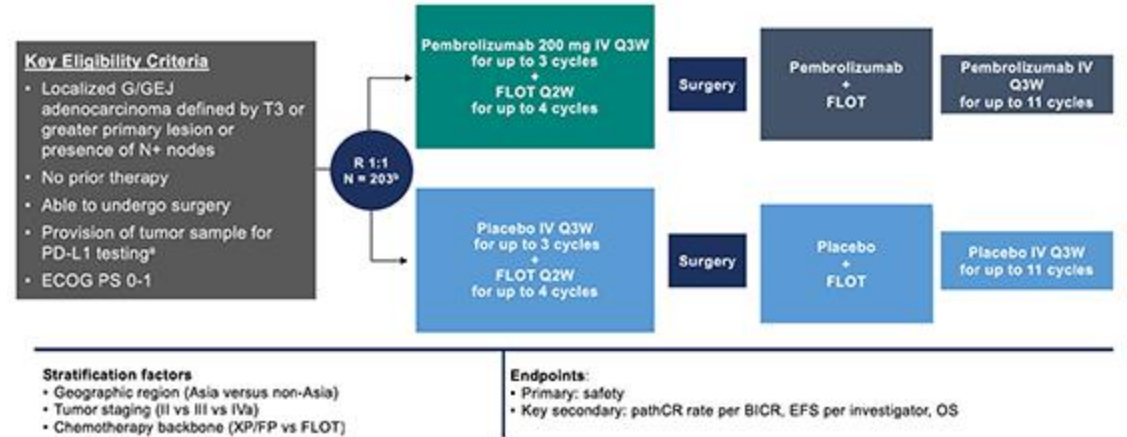
pCR/TRG1a:

All: 24% vs 15%

PD-L1 CPS  $\geq 10$ : pCR 33 vs 12%

MSI-H: 63% vs 27%

## MATTERHORN

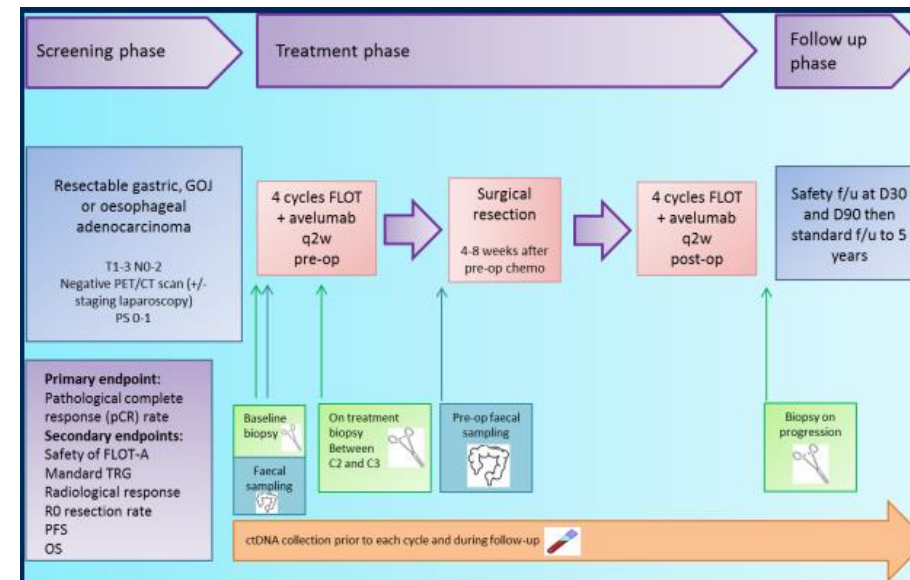


pCR 19% vs 7%

CR/nCR: 27% vs 14%

pCR in Asia consistent with global outcomes.

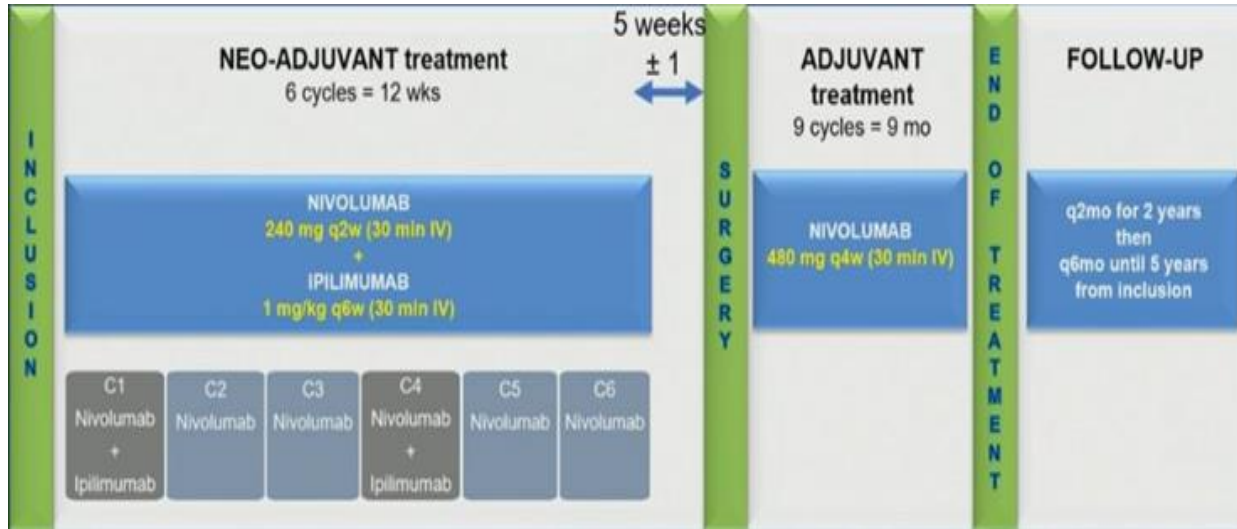
## ICONIC Trial



pCR: 15% for 34 pts

The trial closed early (pre-specified aim 25% in 40 pts)

GERCOR NEONIPIGA

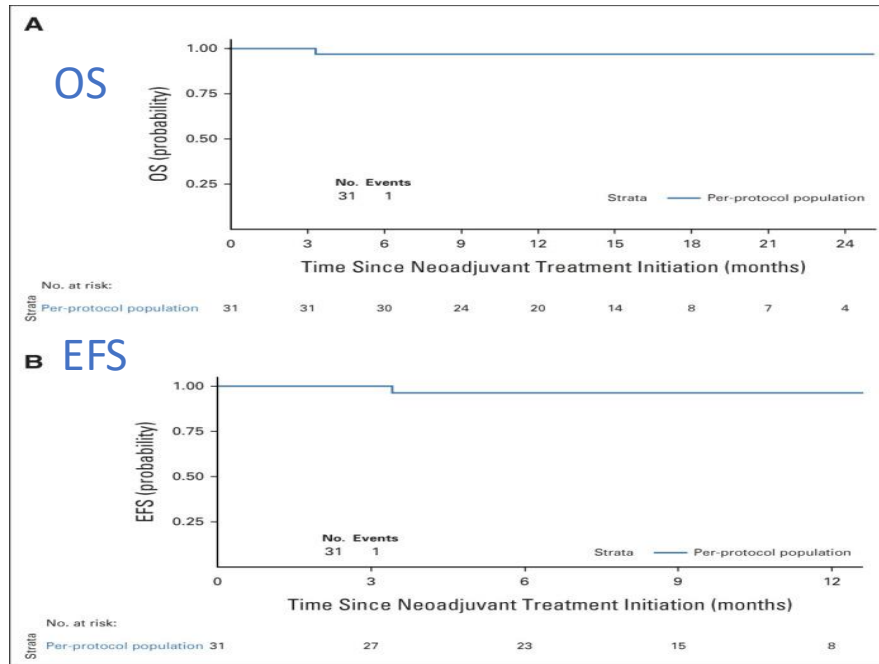


Infinity Trial

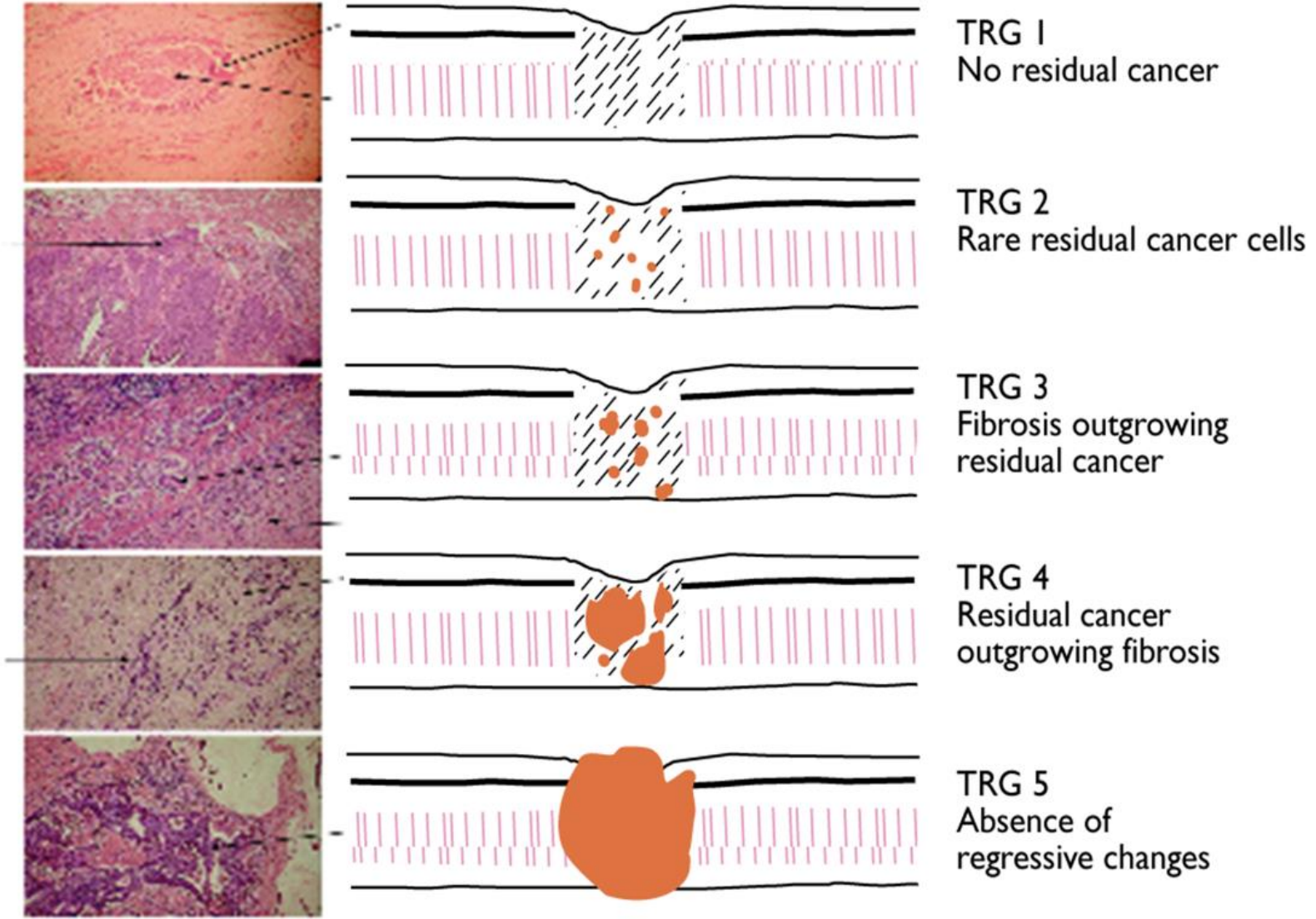
MSI/dMMR  
resectable cT2-4 Nx  
GAC/GEJAC

Durva/Trem(3)

15 evaluable patients, 14 underwent resection  
pCR 60%

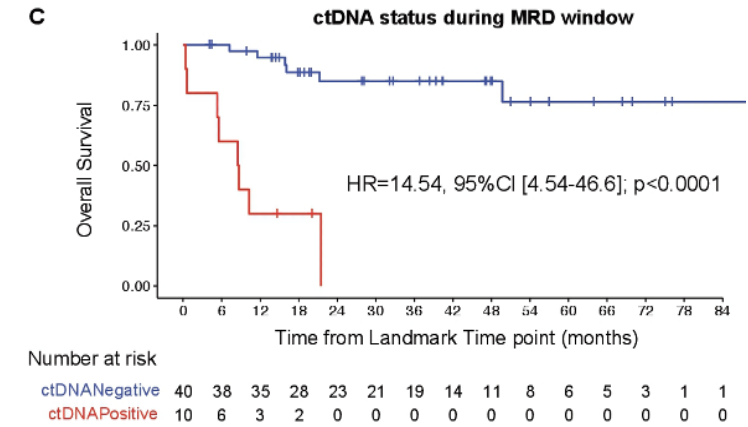
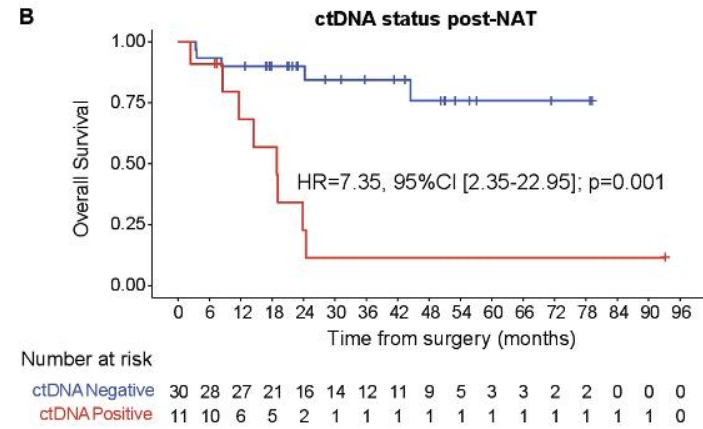
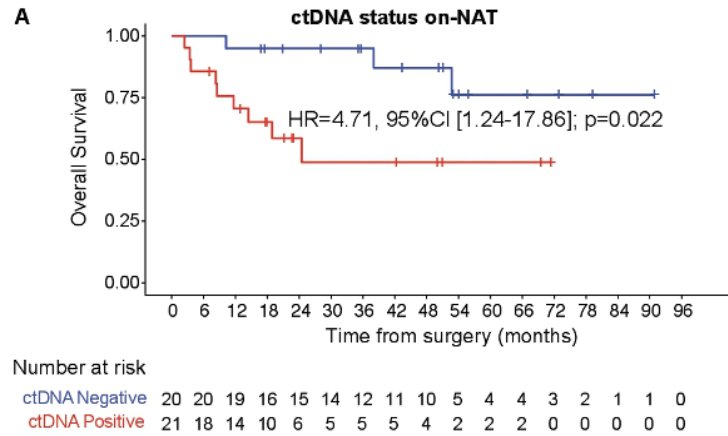


# Tumor Regression (TRG)





# Longitudinal analysis of ctDNA during treatment of locally advanced gastric/GEJ adenocarcinoma - Prospective biomarker study



# Perioperative Therapy - Summary

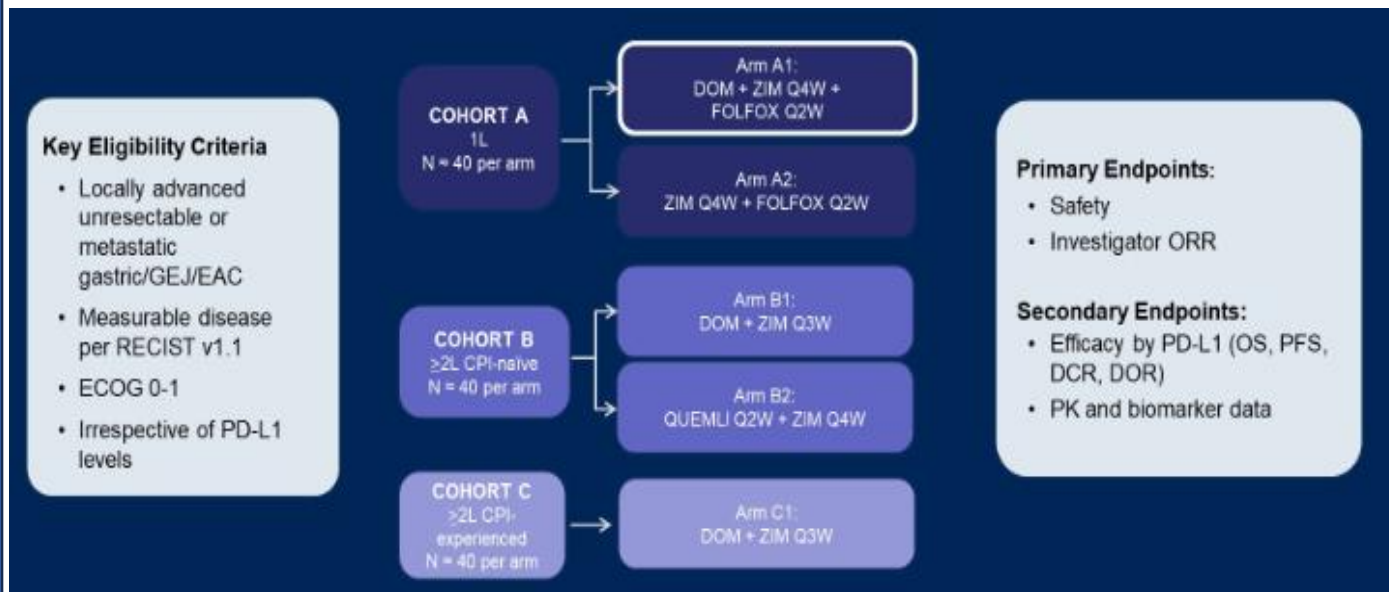
- Perioperative FLOT is the new standard for resectable cT2+/N+ esophageal adenocarcinoma
- Benefit of adjuvant immunotherapy in Esophageal Adenocarcinoma is unclear (CheckMate 577/ATTRACTION-5/ICONIC/VESTIGE)
  - Awaiting OS for Checkmate 577
- Addition of IO improves pCR, but unclear if this leads to improved OS/EFS (KEYNOTE 585, MATTERHORN)
- MSI High perioperative therapy – IO only; neoinipiga and infinity
- ctDNA is being evaluated as a prognostic biomarker

# Update of Esophagogastric Cancer

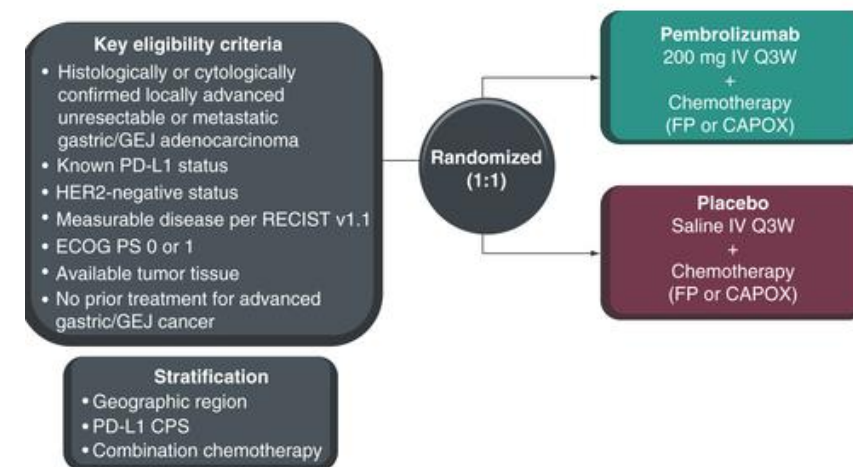
Advanced:

- First line Chemotherapy and Immunotherapy

## EDGE Gastric

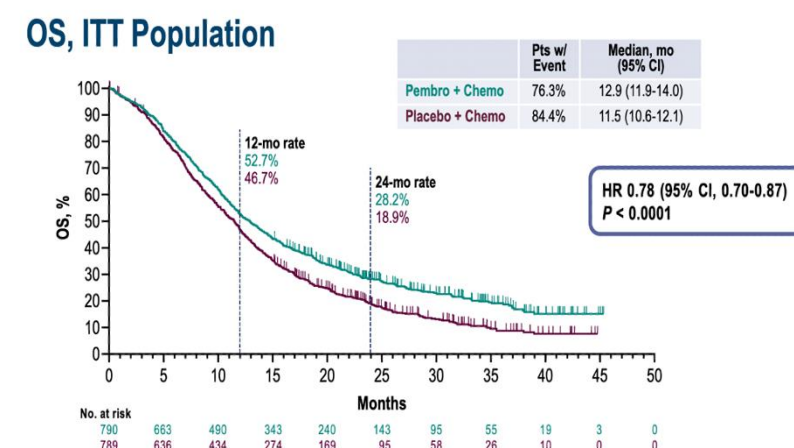
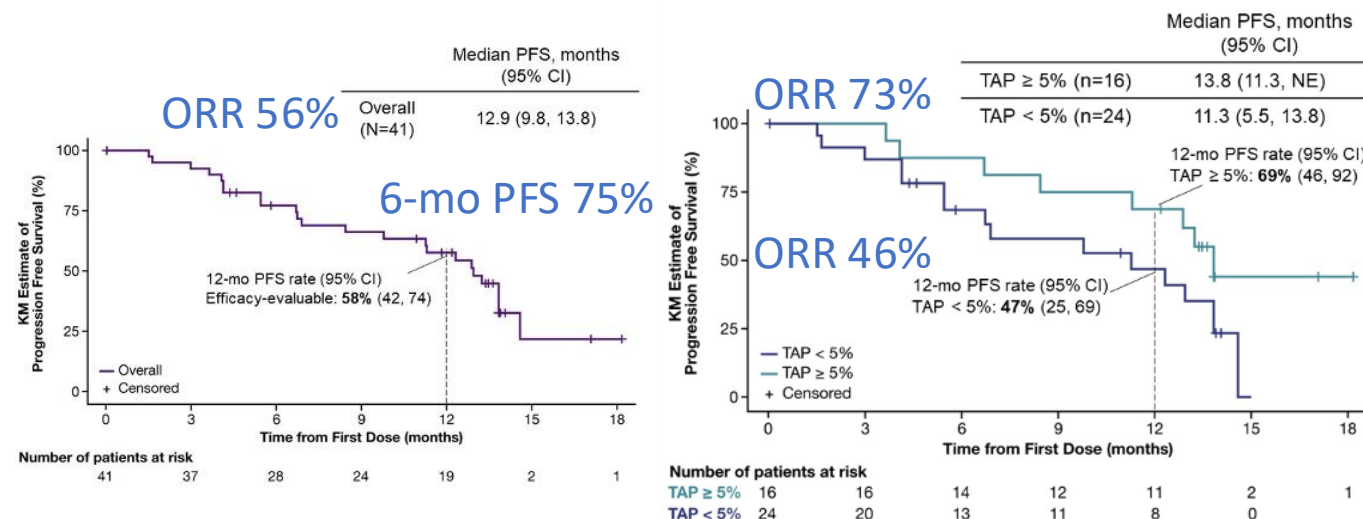


## Keynote-859



ORR 52.1% vs 42.6%  
mDOR was 8.3 mo vs 5.6 mo

PD-L1 CPS ≥10  
mOS 15.7 vs 11.8 mo  
mPFS 8.1 vs 5.6 mo  
ORR 60.6% vs 43%  
mDOR 10.9 vs 5.8 mo

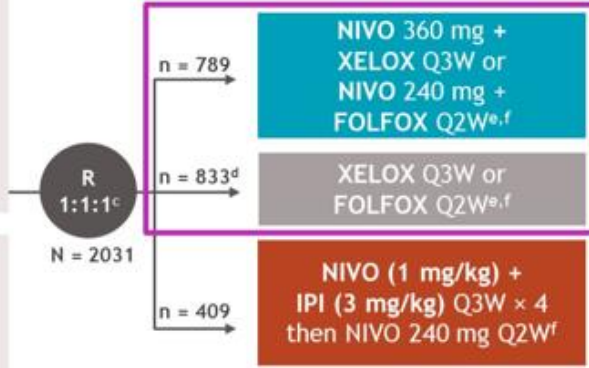


### Key eligibility criteria

- Previously untreated, unresectable, advanced or metastatic gastric/GEJ/esophageal adenocarcinoma
- No known HER2-positive status
- ECOG PS 0-1

### Stratification factors

- Tumor cell PD-L1 expression ( $\geq 1\%$  vs  $< 1\%$ <sup>b</sup>)
- Region (Asia vs United States/Canada vs ROW)
- ECOG PS (0 vs 1)
- Chemo (XELOX vs FOLFOX)



### Dual primary endpoints:

- OS and PFS<sup>a</sup> (PD-L1 CPS  $\geq 5$ )

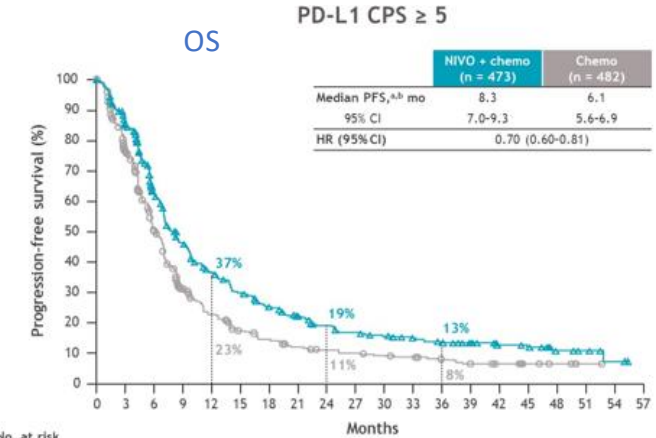
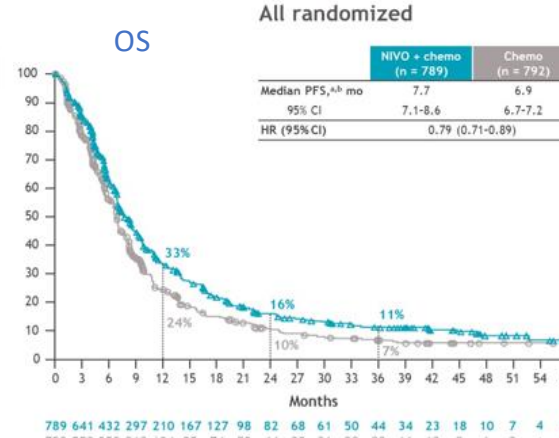
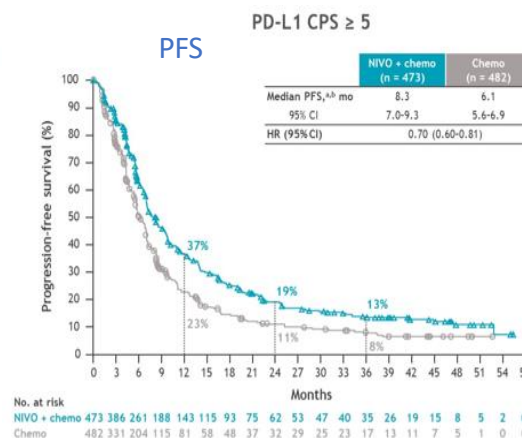
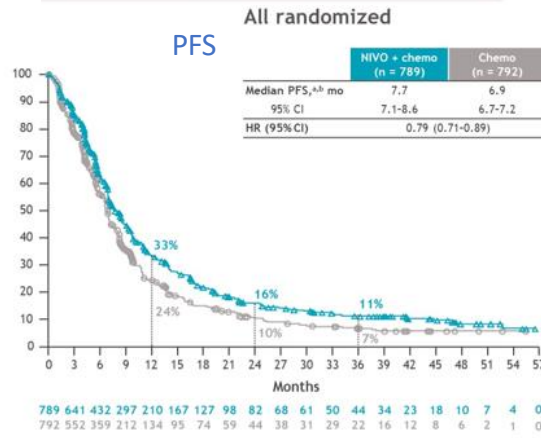
### Secondary endpoints:

- OS (PD-L1 CPS  $\geq 1$ , all randomized)
- OS (PD-L1 CPS  $\geq 10$ )
- PFS<sup>a</sup> (PD-L1 CPS  $\geq 10$ ,  $\geq 1$ , all randomized)
- ORR<sup>a</sup>

### Exploratory endpoints:

- Safety
- QoL

Greater benefit in pts with MSI-H  
 MSI-H— mOS 38.7 vs 12.3mo  
 MSS mOS 13.8 vs 11.5 mo

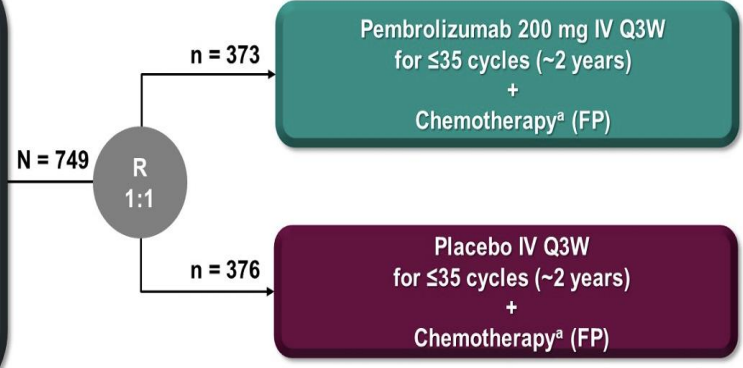


Efficacy	PD-L1 CPS $\geq 5$		All randomized	
	NIVO + chemo (n = 473)	Chemo (n = 482)	NIVO + chemo (n = 789)	Chemo (n = 792)
mOS (95% CI) mo	14.4 (13.1-16.2)	11.1 (10.1-12.1)	13.7 (12.4-14.5)	11.6 (10.9-12.5)
HR (95% CI)	0.70 (0.61-0.81)		0.79 (0.71-0.88)	
48-mo OS rate (95% CI) %	17 (14-21)	8 (6-11)	13 (11-16)	8 (6-10)
mPFS <sup>a</sup> (95% CI) mo	8.3 (7.0-9.3)	6.1 (5.6-6.9)	7.7 (7.1-8.6)	6.9 (6.7-7.2)
HR (95% CI)	0.71 (0.61-0.82)		0.80 (0.71-0.89)	
ORR <sup>a,b</sup> (95% CI) %	60 (55-65)	45 (40-50)	58 (54-62)	46 (42-50)
mDuration of response <sup>a,c</sup> (95% CI) mo	9.6 (8.3-12.4)	7.0 (5.7-8.0)	8.5 (7.7-9.9)	6.9 (5.9-7.6)



**Key Eligibility Criteria**

- Locally advanced/metastatic esophageal adenocarcinoma, ESCC, or Siewert type I GEJ adenocarcinoma
- Measurable disease per RECIST v1.1
- No prior treatment
- ECOG PS 0 or 1



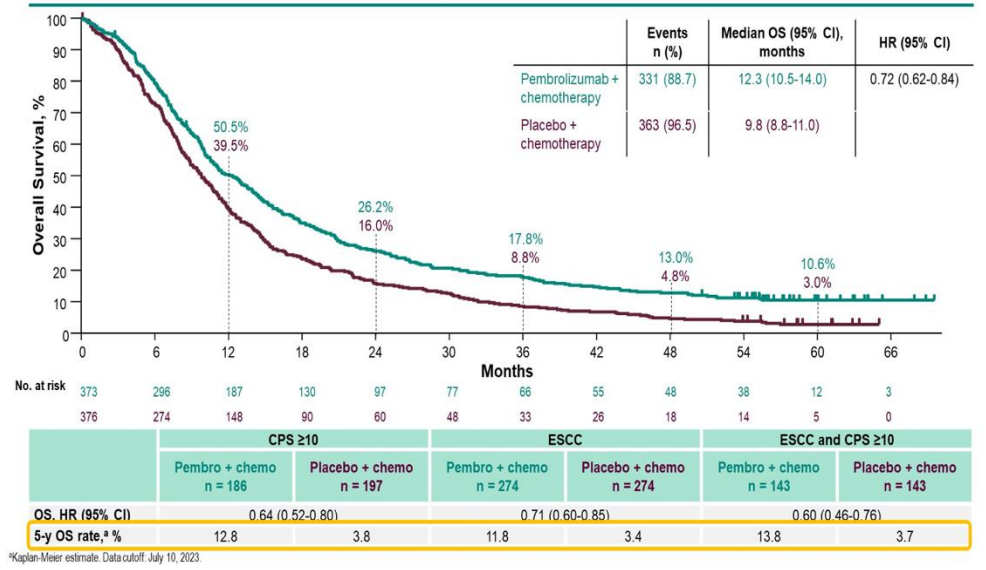
**Stratification Factors**

- Geographic region (Asia vs rest of world)
- Histology (adenocarcinoma vs squamous cell carcinoma)
- ECOG PS (0 vs 1)

**End Points**

- Primary: OS,<sup>b</sup> PFS<sup>c,d</sup>
- Secondary: ORR<sup>d</sup>, DOR<sup>d</sup>, safety, PROs<sup>e</sup>

**Overall Survival: ITT Population**



	ITT n = 749	ESCC n = 548	CPS ≥10 n = 383	ESCC and CPS ≥10 n = 286
<b>OS and PFS</b>				
OS, median, HR (95% CI) <sup>a,b</sup>	0.72 (0.62-0.84)	0.71 (0.60-0.85)	0.64 (0.52-0.80)	0.60 (0.46-0.76)
5-yr OS rate, <sup>a,b</sup> %	10.6 vs 3.0	11.8 vs 3.4	12.8 vs 3.8	13.8 vs 3.7
PFS, median, HR (95% CI) <sup>a,b,c</sup>	0.64 (0.54-0.75)	0.65 (0.54-0.78)	0.51 (0.40-0.64)	0.53 (0.41-0.69)
ORR, <sup>b,c</sup> %	45.0 vs 29.3	43.8 vs 31.0	51.1 vs 26.9	51.0 vs 28.0
DOR, <sup>a,b,c</sup> median, mo (range)	8.3 (1.2+ to 65.9+) vs 6.0 (1.5+ to 31.1)	9.1 (1.2+ to 65.9+) vs 6.1 (1.5+ to 31.1)	10.4 (1.9 to 65.9+) vs 5.6 (1.5+ to 31.1)	10.4 (2.2+ to 65.9+) vs 4.4 (1.5+ to 31.1)

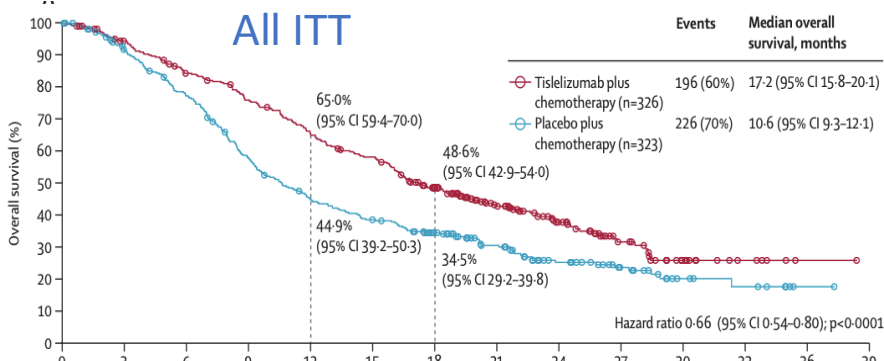
NR, not reached.

<sup>a</sup>Kaplan-Meier estimate.

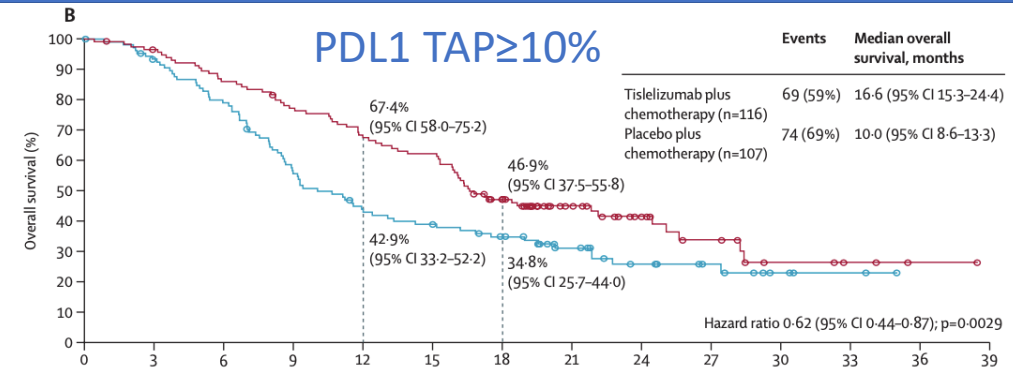
Advanced  
ESCC

platinum plus  
fluoropyrimidine or  
platinum plus paclitaxel)  
+ tislelizumab

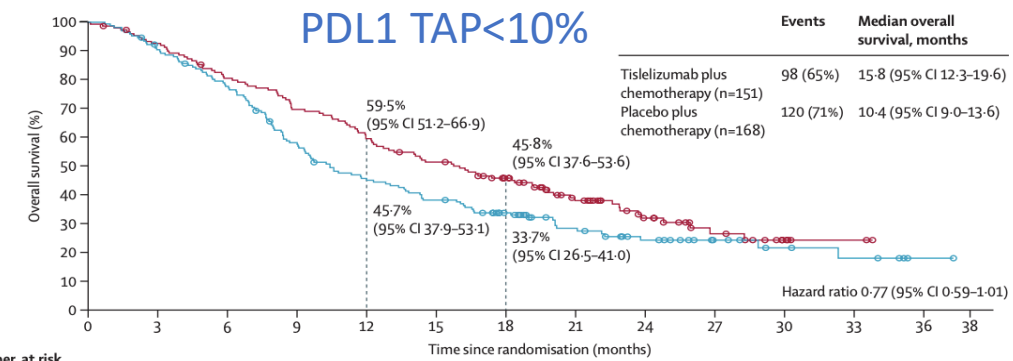
platinum plus  
fluoropyrimidine or  
platinum plus paclitaxel)



Number at risk (number censored)	0	3	6	9	12	15	18	21	24	27	30	33	36	39
Tislelizumab plus chemotherapy	326 (0)	300 (8)	264 (12)	236 (14)	201 (15)	178 (17)	136 (30)	90 (62)	58 (85)	34 (101)	14 (116)	6 (124)	1 (129)	0 (130)
Placebo plus chemotherapy	323 (0)	285 (11)	239 (13)	176 (16)	135 (18)	115 (19)	91 (31)	63 (50)	40 (63)	25 (76)	11 (87)	7 (90)	1 (96)	0 (97)



Number at risk (number censored)	0	3	6	9	12	15	18	21	24	27	30	33	36	39
Tislelizumab plus chemotherapy	116 (0)	110 (2)	98 (2)	87 (3)	76 (3)	70 (3)	48 (8)	29 (25)	18 (34)	12 (37)	5 (42)	3 (44)	1 (46)	0 (47)
Placebo plus chemotherapy	107 (0)	97 (3)	82 (3)	57 (4)	43 (5)	38 (6)	32 (8)	21 (16)	13 (21)	9 (25)	4 (29)	2 (31)	0 (33)	0 (33)



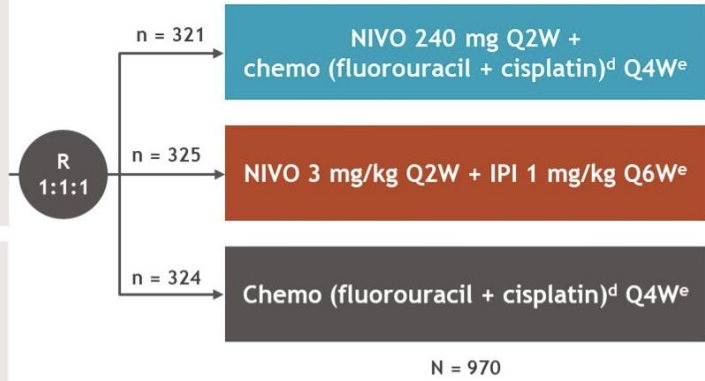
Number at risk (number censored)	0	3	6	9	12	15	18	21	24	27	30	33	36	38
Tislelizumab plus chemotherapy	151 (0)	138 (2)	119 (3)	103 (3)	88 (3)	75 (4)	60 (11)	39 (23)	23 (34)	13 (41)	5 (48)	2 (51)	0 (53)	0 (53)
Placebo plus chemotherapy	168 (0)	150 (2)	128 (3)	94 (5)	73 (6)	61 (6)	46 (14)	30 (24)	20 (30)	11 (39)	7 (42)	5 (43)	1 (47)	0 (48)

	Arm A: TIS + chemo (n=326)	Arm B: PBO + chemo (n=323)
Median OS, mo (95% CI)	17.2 (15.8, 20.1)	10.6 (9.3, 12.0)
24-mo OS, % (95% CI)	37.9 (32.5, 43.2)	24.8 (20.1, 29.8)
36-mo OS, % (95% CI)	22.1 (17.6, 27.0)	14.1 (10.4, 18.4)
24-mo PFS, % (95% CI)	18.1 (13.6, 23.1)	7.2 (4.4, 11.0)
36-mo PFS, % (95% CI)	15.0 (10.8, 19.9)	2.9 (1.1, 6.2)
24-mo DoR, % (95% CI) <sup>a</sup>	19.9 (14.3, 26.3)	10.1 (5.0, 17.1)
36-mo DoR, % (95% CI) <sup>a</sup>	17.7 (12.3, 24.0)	5.0 (1.5, 11.8)

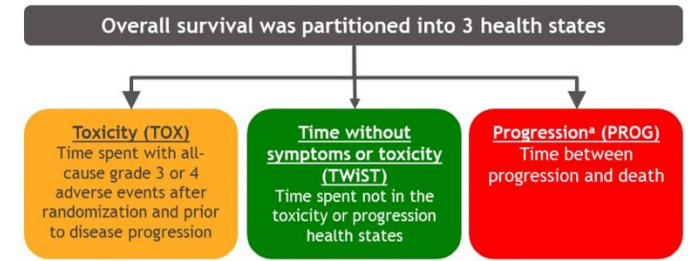
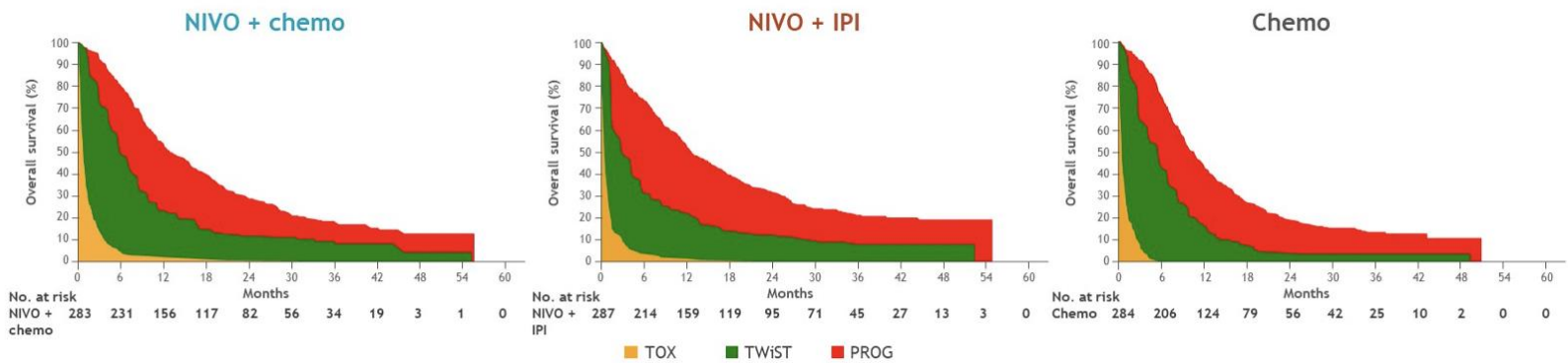
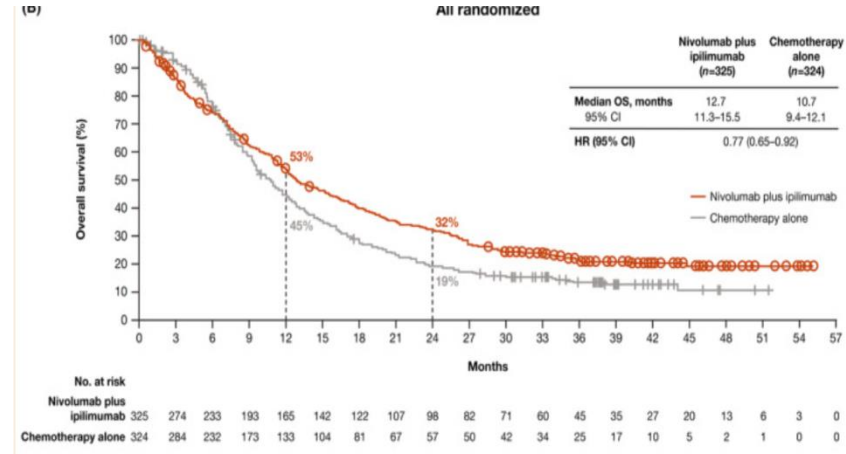
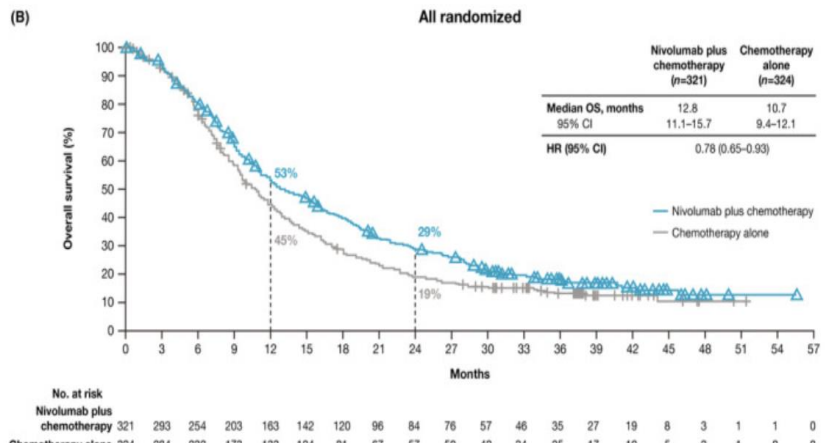


# CHECKMATE 648

- Key eligibility criteria**
- Unresectable advanced, recurrent, or metastatic ESCC
  - ECOG PS 0-1
  - No prior systemic treatment for advanced disease
  - Measurable disease
- Stratification factors**
- Tumor cell PD-L1 expression ( $\geq 1\%$  vs  $< 1\%$ <sup>b</sup>)
  - Region (East Asia<sup>c</sup> vs rest of Asia vs ROW)
  - ECOG PS (0 vs 1)
  - Number of organs with metastases ( $\leq 1$  vs  $\geq 2$ )



- Primary endpoints:**
- OS and PFS<sup>f</sup> (tumor cell PD-L1  $\geq 1\%$ )
- Secondary endpoints:**
- OS and PFS<sup>f</sup> (all randomized)
  - ORR<sup>f</sup> (tumor cell PD-L1  $\geq 1\%$  and all randomized)
- Exploratory endpoint:**
- Patient reported outcomes using EQ-5D-3L and FACT-E



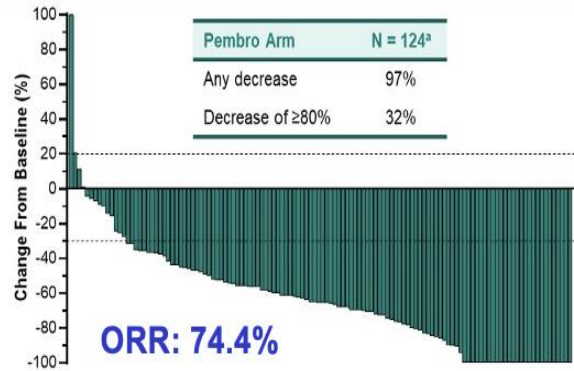
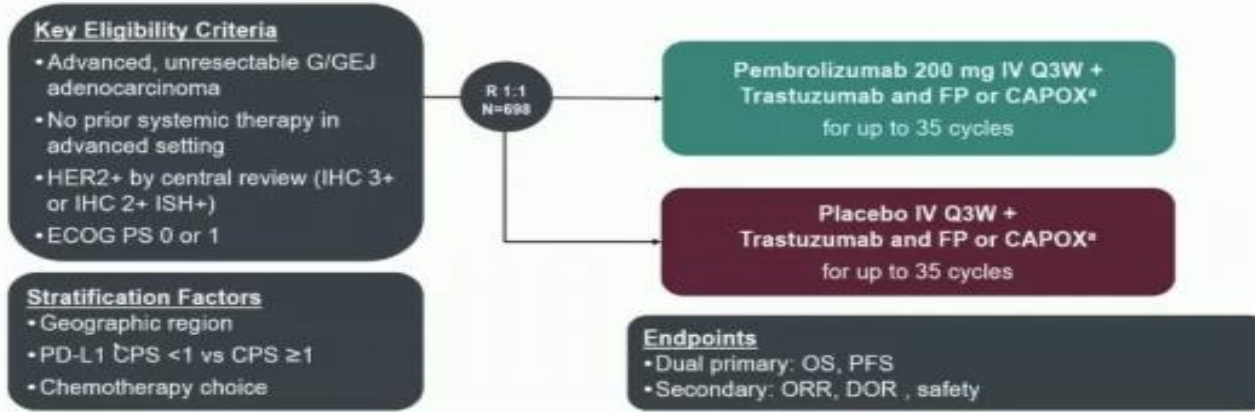
# Advanced Esophagogastric – Role of Immunotherapy

- First line immunotherapy in combination with chemotherapy superior to chemotherapy alone with longer follow up.
- Benefit across subgroups, enriched in higher PDL1
- MSI-H patients benefit more
- Chemo + PD-1 Inhibitor + TIGIT Inhibitor promising results in first line

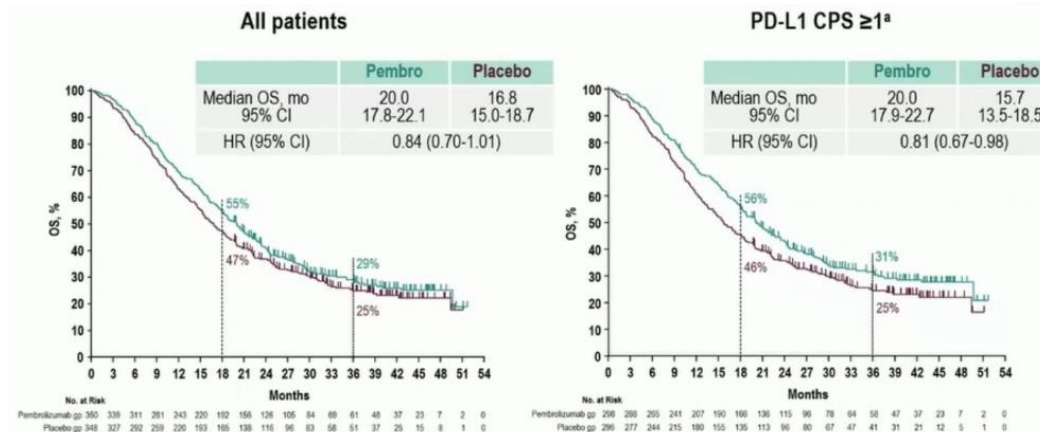
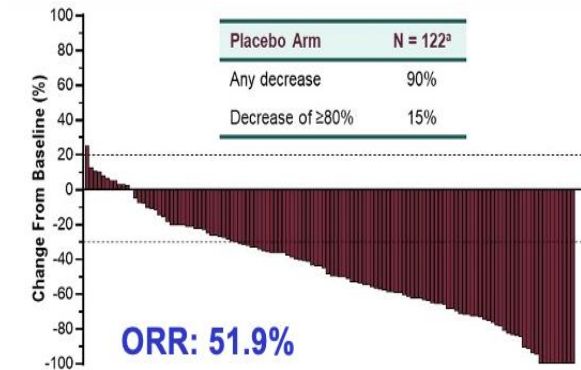
# Update of Esophagogastric Cancer

Advanced:

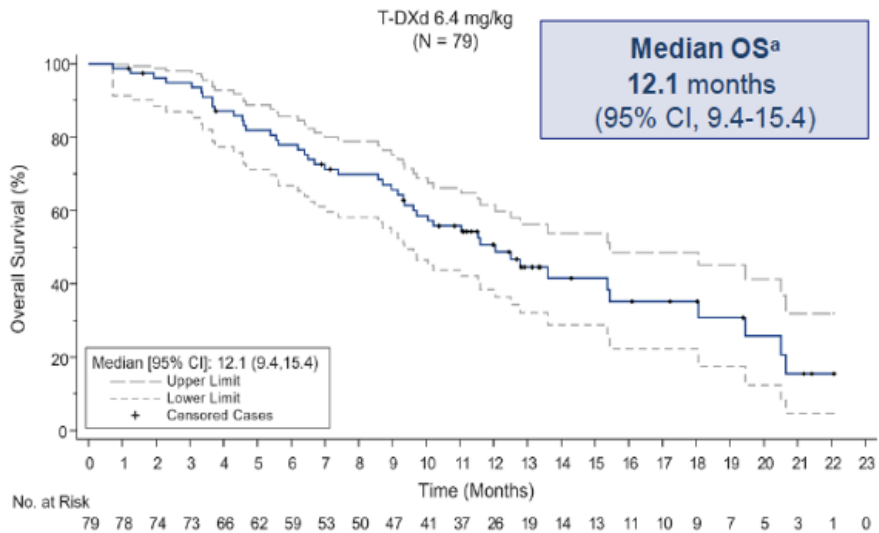
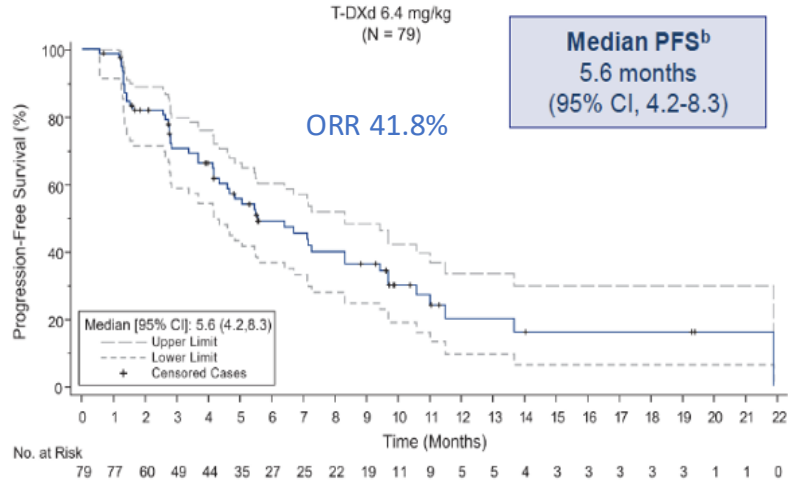
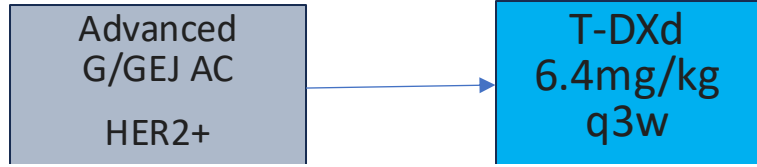
- HER2 + Gastric cancer



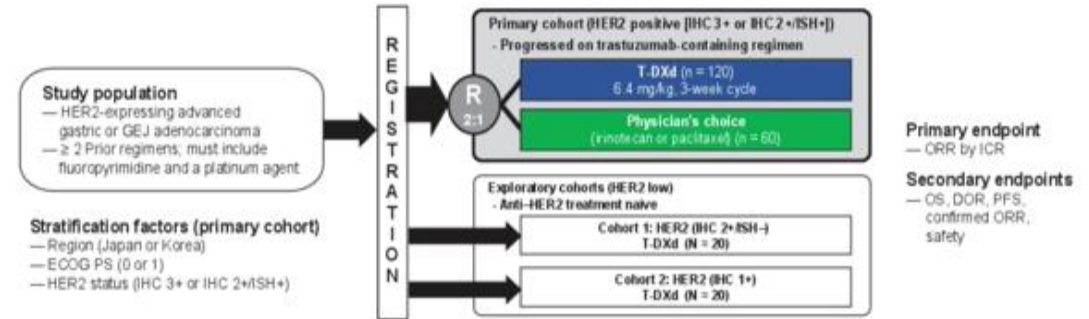
FDA granted accelerated approval to pembro plus trastuzumab and chemo



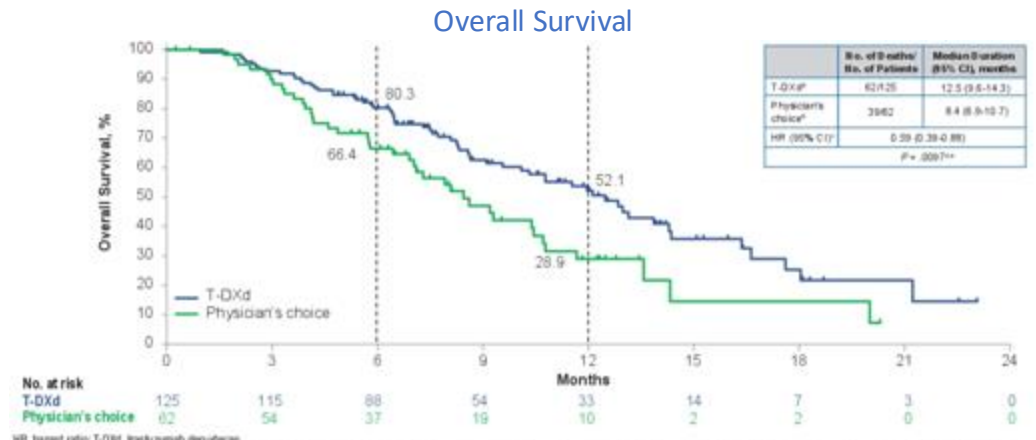
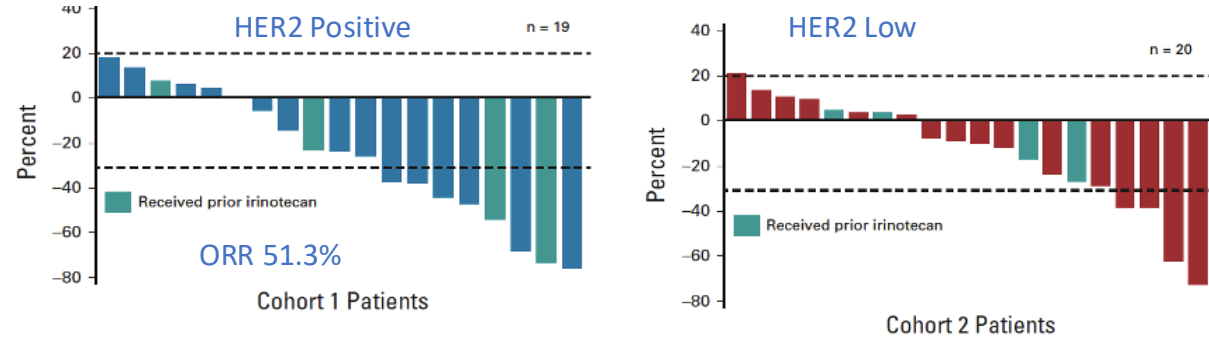
# DESTINY GASTRIC-02



# DESTINY GASTRIC-01



DOR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; GEJ, gastroesophageal junction; HER2, human epidermal growth factor receptor 2; ICR, independent central review; IHC, immunohistochemistry; ISH, in situ hybridization; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; T-DXd, trastuzumab deruxtecan.



<sup>a</sup> In the T-DXd arm, 63 patients (50.4%) were censored. <sup>b</sup> In the PC arm, 23 patients (37.1%) were censored. <sup>c</sup> HR and corresponding 95% CI were estimated using Cox proportional hazards model stratified by region. <sup>d</sup> The O'Brien-Fleming boundary of significance for the 2-sided P value was 0.0202. \* Comparison between T-DXd and PC overall using a stratified log-rank test with region as a stratification factor.

# Summary - HER2 Positive Cancer

- Chemotherapy with Trastuzumab and Pembrolizumab improved ORR and PFS with PDL-1  $\geq$  patient
- Refractory options – Trastuzumab-deruxtecan
- HER2 **low** being investigated with Ab-drug conjugates
- Multiple investigational Agents – TKI, Antibody drugs, cell therapy

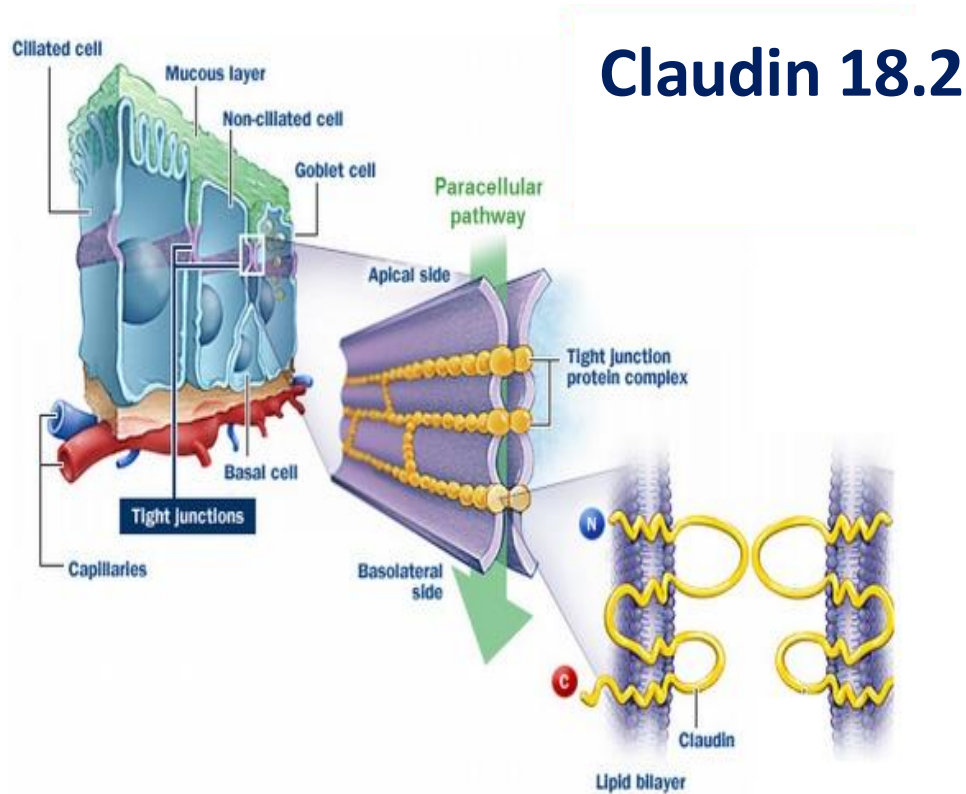
# Update of Esophagogastric Cancer

Advanced:

- Claudin 18.2 – New Target

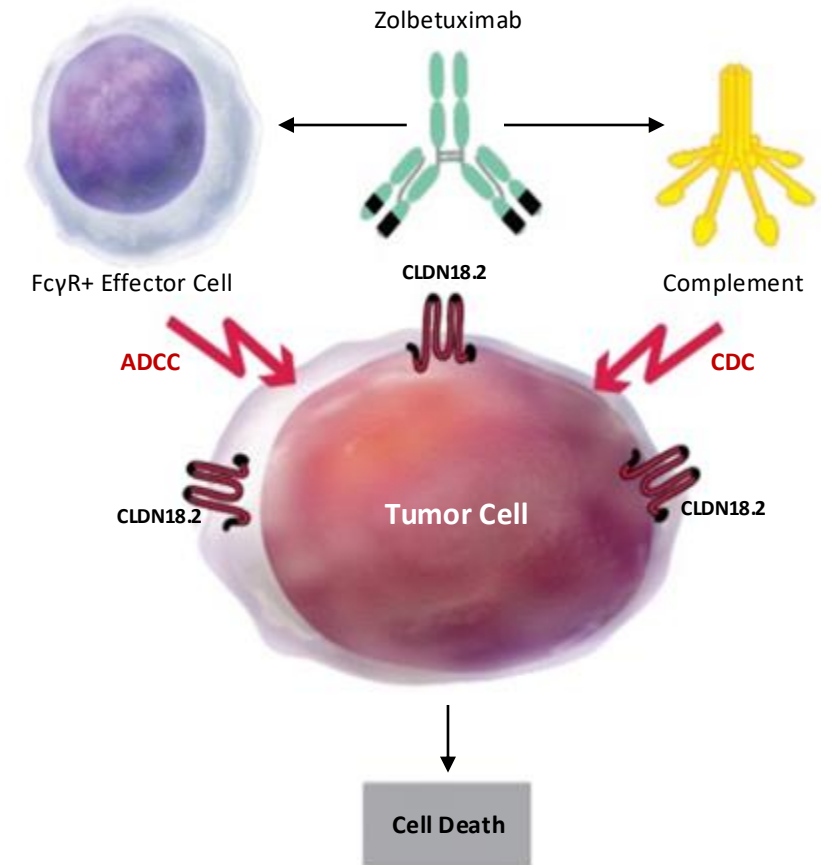


# CLAUDIN18.2 – A NOVEL TARGET

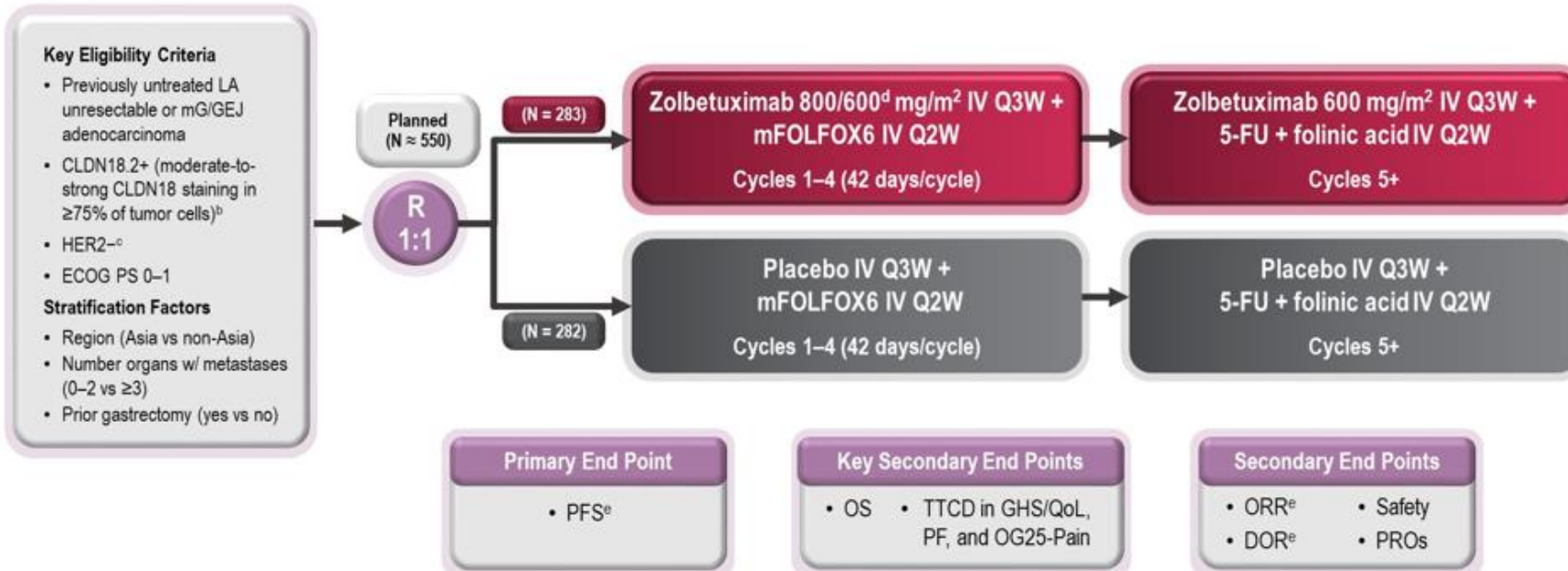


## Claudin 18.2

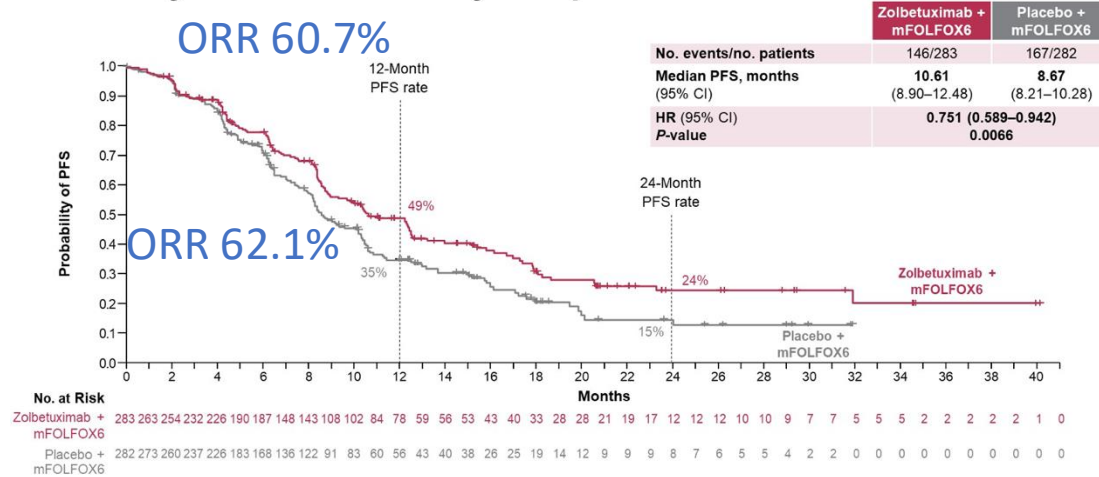
## Mechanism of Action of Zolbetuximab



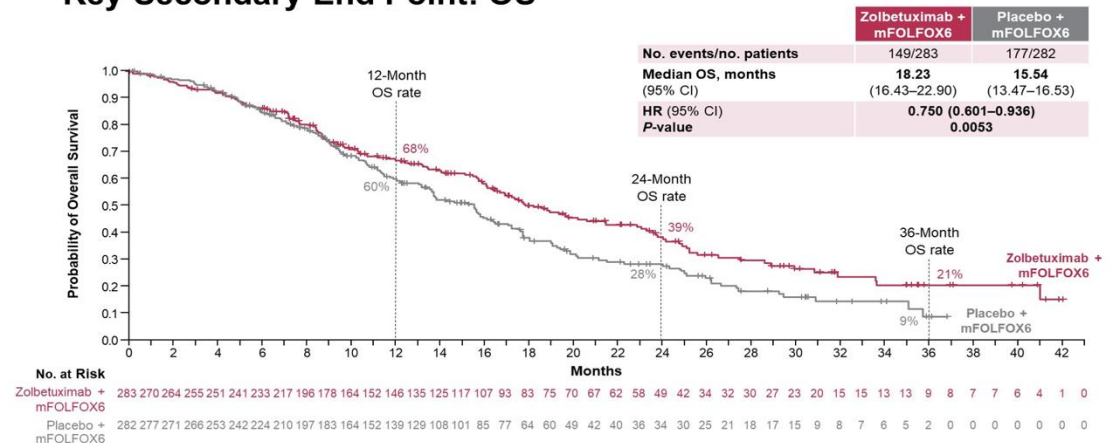
- ▶ Claudin 18.2 is a tight junction protein expressed in normal and malignant gastric mucosa cells
- ▶ During malignant transformation, CLDN18.2 is exposed on the surface of G/GEJ AC
- ▶ Zolbetuximab is a chimeric antibody targeting CLDN18.2 and its ADCC/CDC

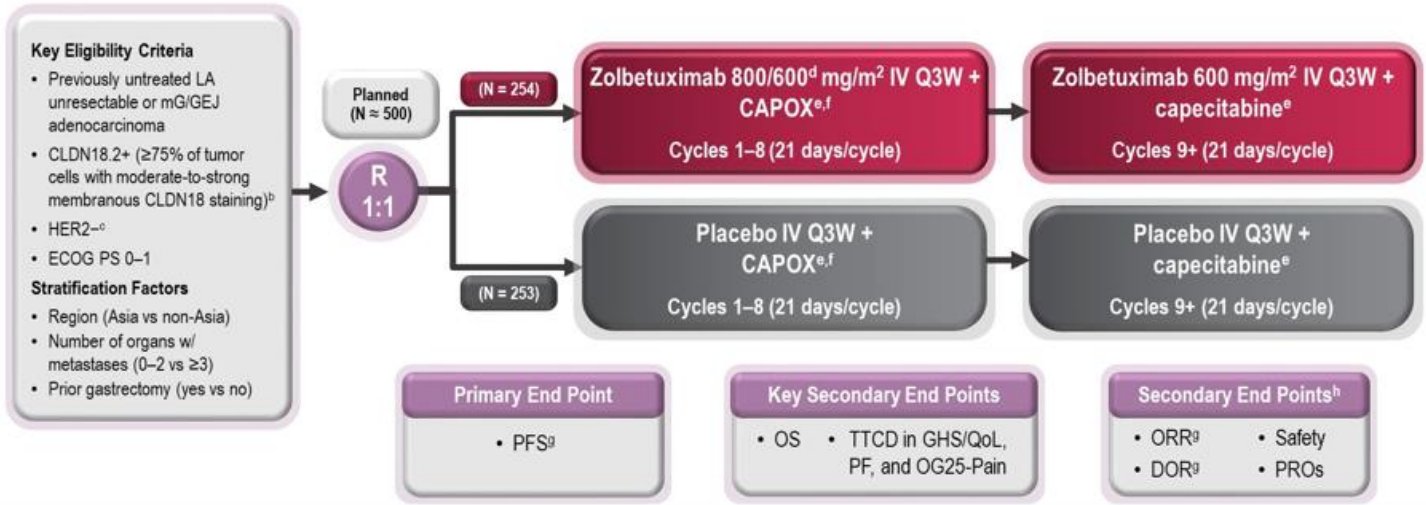


Primary End Point: PFS by Independent Review Committee<sup>a</sup>

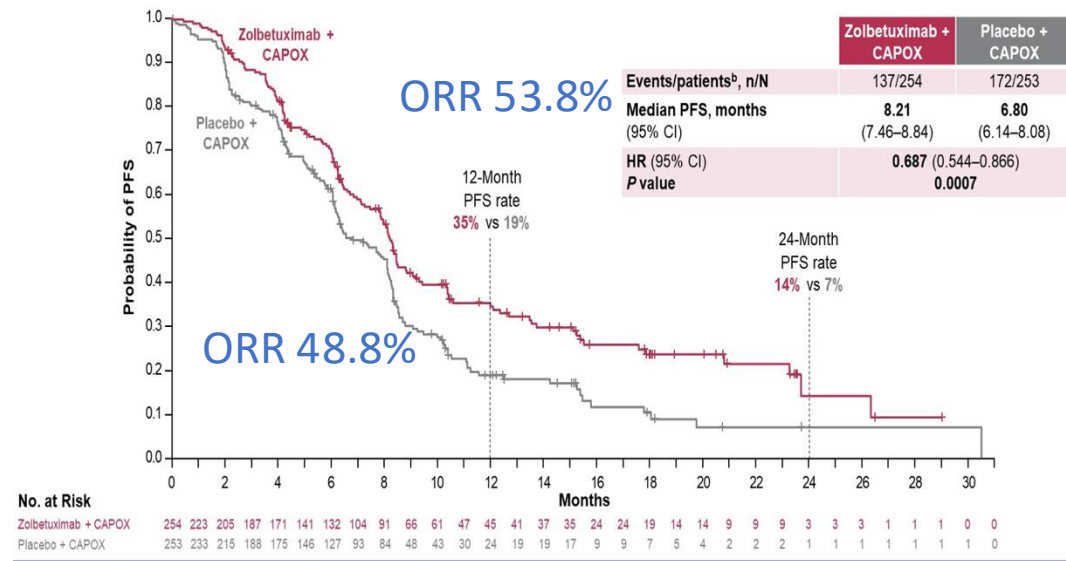


Key Secondary End Point: OS



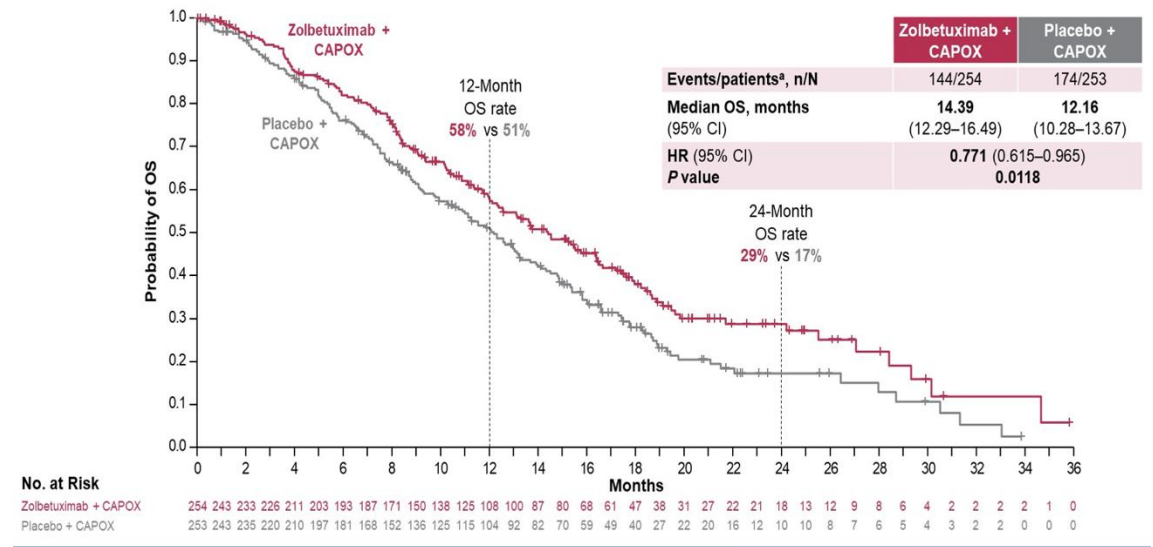


Progression free Survival



Stomach more benefit than GEJ

Overall Survival

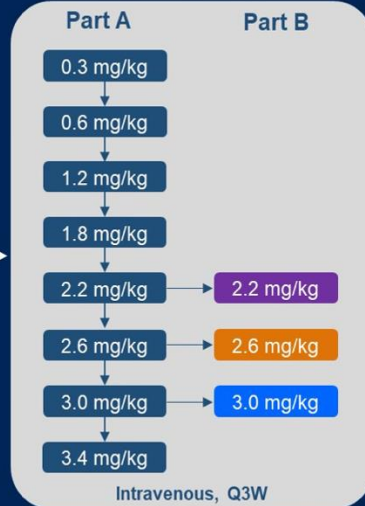


Grade ≥3 AEs 72.8 vs 69.9%



**Key Eligibility Criteria:**

- Pathologically confirmed advanced solid tumor, evaluable by RECIST v1.1
- Refractory/intolerant to standard therapies
- ECOG PS ≤1
- Part A dose escalation:
  - CLDN18.2 expression not required
- Part B dose expansion:
  - CLDN18.2 expression of ≥2+ membrane staining intensity in ≥5% tumor cells required



**Primary Endpoints**

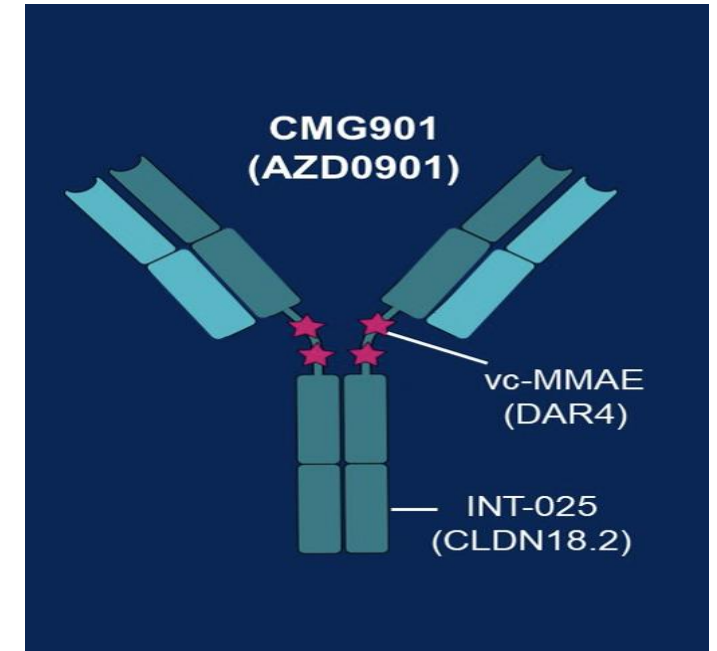
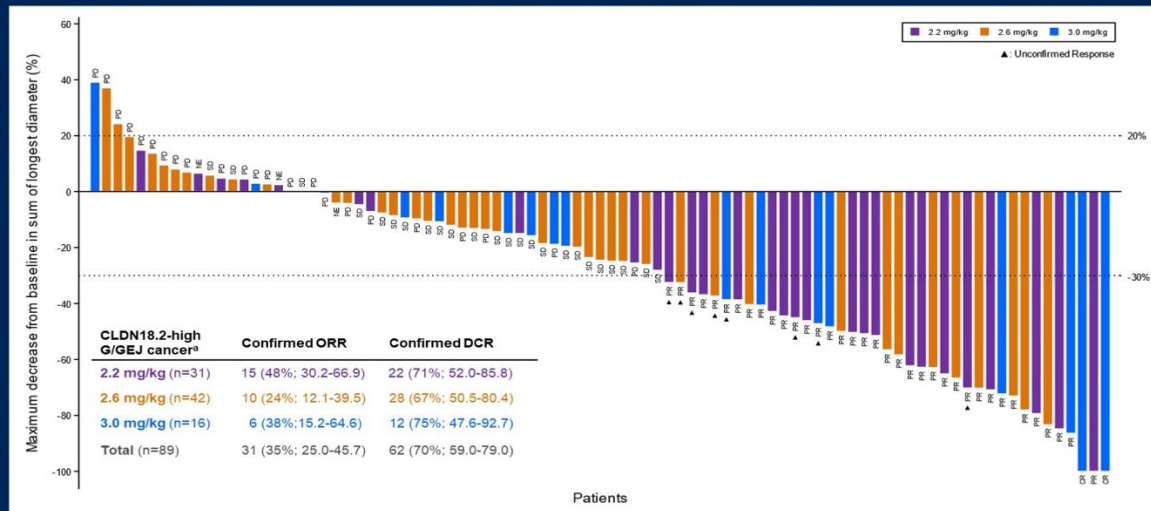
Part A: Adverse events and DLT  
Part B: ORR<sup>a</sup> and RP2D

Focus on the 113 patients with G/GEJ cancer dosed at 2.2-3.0 mg/kg (107 patients from part B plus 6 patients from part A).

Data cut-off: February 24, 2024

**Best Overall Response in CLDN18.2-High<sup>a</sup> G/GEJ Cancer**

24-48% of patients achieved a confirmed objective response, and 67-75% of patients achieved a confirmed disease control

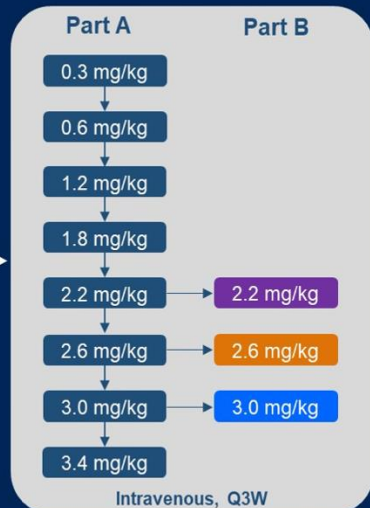


Data cut-off date: February 24, 2024.

Data are presented as n (%; 95%CI). <sup>a</sup>In patients with CLDN18.2 expression of ≥2+ membrane staining in ≥20% tumor cells, who received ≥1 dose of CMG901, with at least one post-treatment evaluation. Abbreviations: CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease; NE, not evaluable; DCR, disease control rate; CI, confidence interval; IHC, immunohistochemistry.

## Key Eligibility Criteria:

- Pathologically confirmed advanced solid tumor, evaluable by RECIST v1.1
- Refractory/intolerant to standard therapies
- ECOG PS ≤1
- Part A dose escalation:
  - CLDN18.2 expression not required
- Part B dose expansion:
  - CLDN18.2 expression of ≥2+ membrane staining intensity in ≥5% tumor cells required

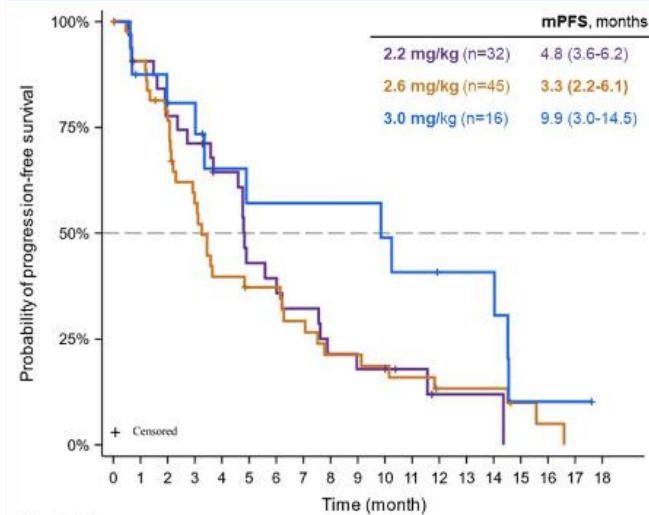


## Primary Endpoints

Part A: Adverse events and DLT  
Part B: ORR<sup>a</sup> and RP2D

Focus on the **113** patients with G/GEJ cancer dosed at 2.2-3.0 mg/kg (107 patients from part B plus 6 patients from part A).

Data cut-off: **February 24, 2024**

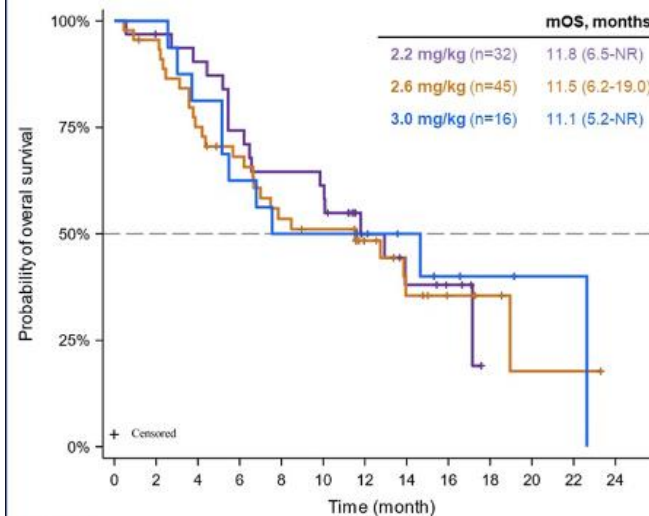
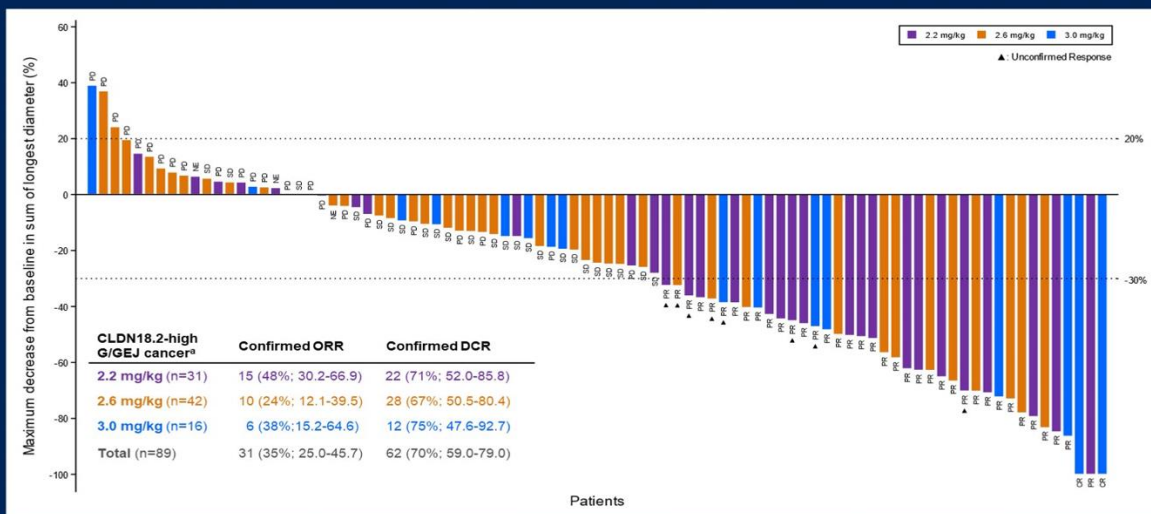


No. at risk

Time (month)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
2.2 mg/kg	32	28	24	22	18	12	11	9	6	5	5	3	1	1	1	0	0	0	0
2.6 mg/kg	45	39	33	23	16	14	14	11	8	8	7	6	4	4	4	2	1	0	0
3.0 mg/kg	16	13	12	11	8	7	7	7	7	6	5	4	4	4	1	1	1	0	0

## Best Overall Response in CLDN18.2-High<sup>a</sup> G/GEJ Cancer

24-48% of patients achieved a confirmed objective response, and 67-75% of patients achieved a confirmed disease control



No. at risk

Time (month)	0	2	4	6	8	10	12	14	16	18	20	22	24
2.2 mg/kg	32	31	30	29	28	27	23	20	20	19	16	9	8
2.6 mg/kg	45	43	42	38	33	29	28	24	22	20	20	13	11
3.0 mg/kg	16	16	16	15	13	13	10	9	8	8	8	7	6

Data cut-off date: February 24, 2024.  
Data are presented as n (%; 95%CI). <sup>a</sup>In patients with CLDN18.2 expression of ≥2+ membrane staining in ≥20% tumor cells, who received ≥1 dose of CMG901, with at least one post-treatment evaluation.  
Abbreviations: CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease; NE, not evaluable; DCR, disease control rate; CI, confidence interval; IHC, immunohistochemistry.

## CLDN 18.2 Summary

- Zolbetuximab with mFOLFOX6 and CAPOX with improvement in PFS and OS
- Toxicity profile includes GI toxicity – nausea/vomiting – but appears to be tolerable and manageable
- Awaiting FDA approval
- Claudin ADC
- Target for cell therapy, antibody drug conjugates and other trials



### Key Eligibility Criteria:

- Advanced G/GEJ adenocarcinoma
- Progressed on fluoropyrimidine- or platinum-containing chemotherapy
- ECOG PS 0-1

R  
1:1  
N=703

### Fruquintinib + paclitaxel group (F+PTX)

- Fruquintinib: 4mg, QD, 3w on/1w off, po
- Paclitaxel: 80mg/m<sup>2</sup>, Day1/8/15, IV 4w/cycle

### Placebo + paclitaxel group (PBO+PTX)

- Placebo: 4mg, QD, 3w on/1w off, po
- Paclitaxel: 80mg/m<sup>2</sup>, Day1/8/15, IV 4w/cycle

Treatment continued until  
• PD per RECIST 1.1 or  
• Intolerable toxicity

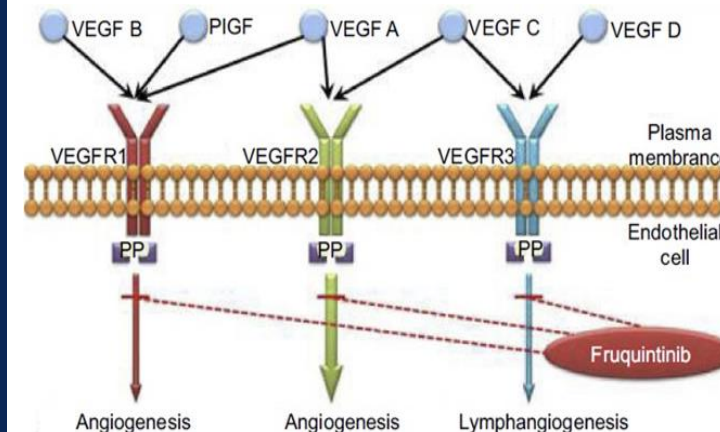
### Stratification Factors:

- GEJ vs Stomach;
- Peritoneal metastasis Y vs N;
- ECOG PS 0 vs 1

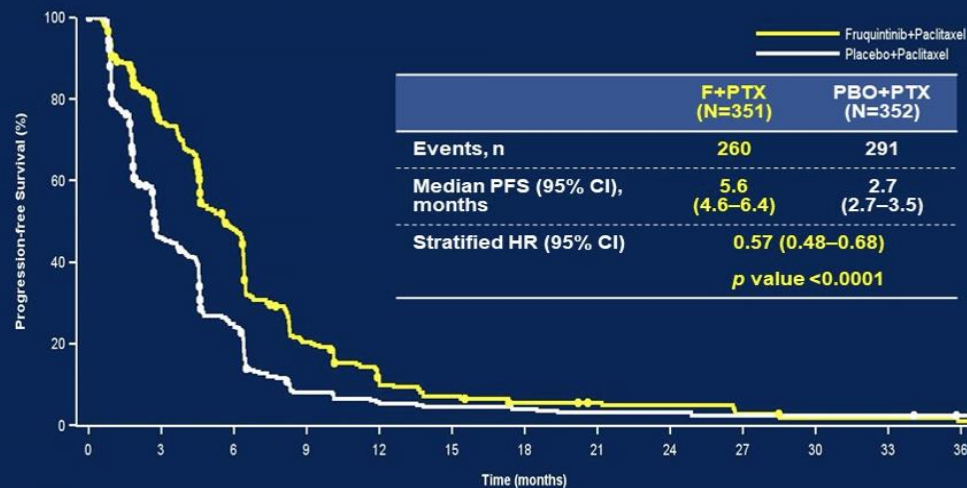
### Dual Primary Endpoints\*: PFS and OS

\* Alpha allocation and recycling were used to control type I error for the final analysis of the dual primary endpoints

Secondary Endpoints: ORR, DCR, DoR, Safety, QoL

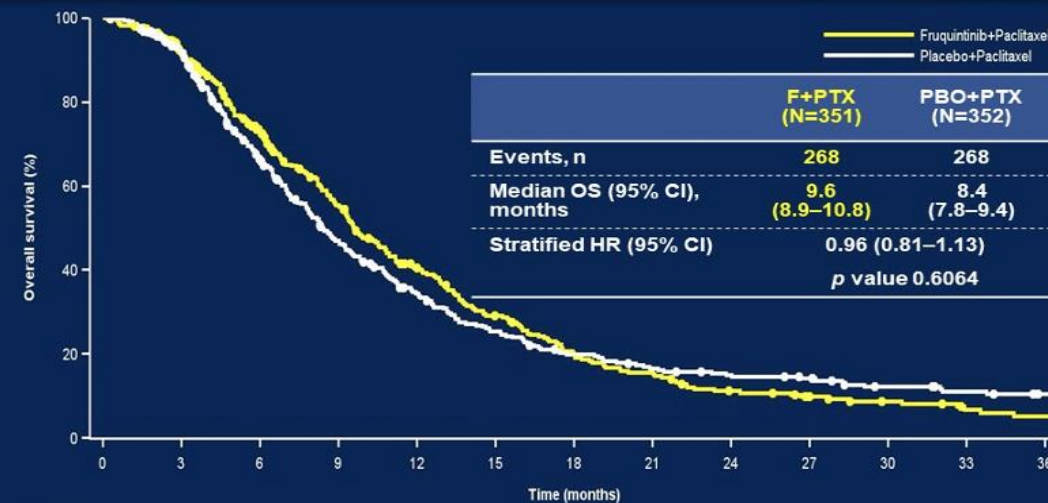


## Progression-free survival



Number of patient at risk	0	3	6	9	12	15	18	21	24	27	30	33	36
Fruquintinib+Paclitaxel	351	210	121	49	21	15	10	8	7	4	2	2	1
Placebo+Paclitaxel	352	132	67	20	13	11	10	8	8	6	6	6	4

## Overall survival



Number of patient at risk	0	3	6	9	12	15	18	21	24	27	30	33	36
Fruquintinib+Paclitaxel	351	301	221	159	108	76	52	40	26	20	14	9	7
Placebo+Paclitaxel	352	307	204	137	96	70	53	43	37	33	24	19	15

Improved outcomes in non-diffuse subtypes and with nodal involvement



Thank you!

