Differentiating Biomarker-Driven First-Line Treatment Strategies in Metastatic Gastric/GEJ Cancers

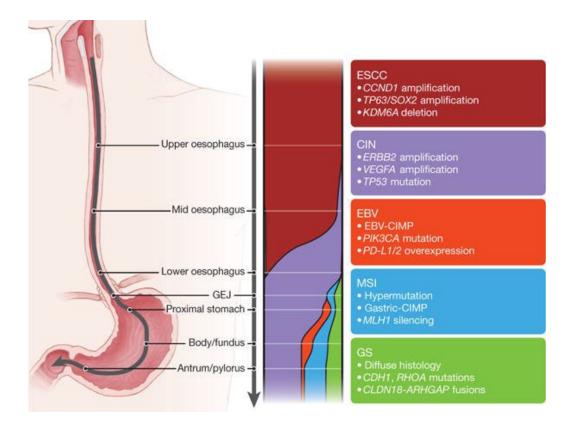
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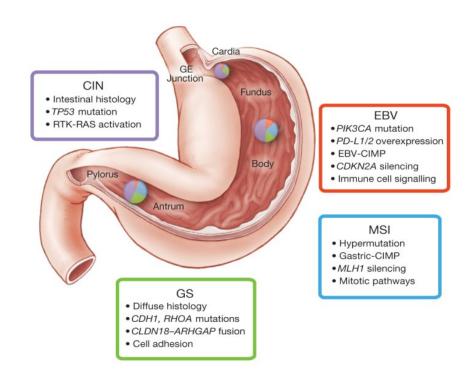


Biomarkers in Gastric/Gastroesophageal Junction Cancers

Anatomic and Molecular Heterogeneity



164 esophageal tumors, 359 gastric adenocarcinomas and 36 additional adenocarcinomas at the GEJ



EBV, Epstein Barr virus; CIN, chromosomal instability; GS, genomically stable; MSI, microsatellite unstable.

Relevant Biomarkers in Advanced Gastric/GEJ Cancers

Current:

- Microsatellite status (PCR or IHC for MMR protein expression)*
- HER2 status (IHC and FISH as needed; NGS)
- PD-L1 expression

Under Investigation:

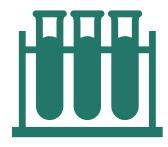
• Claudin 18.2, FGFR2b

^{*} Microsatellite status should be determined regardless of stage.

Testing for Microsatellite Instability



Immunohistochemistry: expression of mismatch repair (MMR) proteins

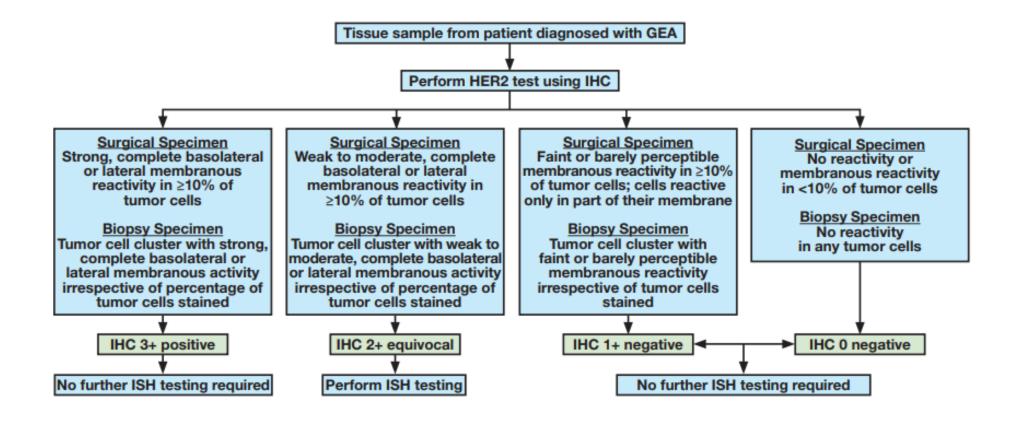


PCR-based assays for microsatellite instability (MSI)



Next-generation sequencing (NGS)

ASCO/CAP/ASCP Guidelines for HER2 Status Assessment in Gastroesophageal Adenocarcinoma



PD-L1 Testing in Upper Gastric/GEJ Tumors

PD-L1 <u>tumor-positive score</u> (TPS):

% of viable tumor cells with partial or complete membrane staining in at least 100 viable tumor cells examined

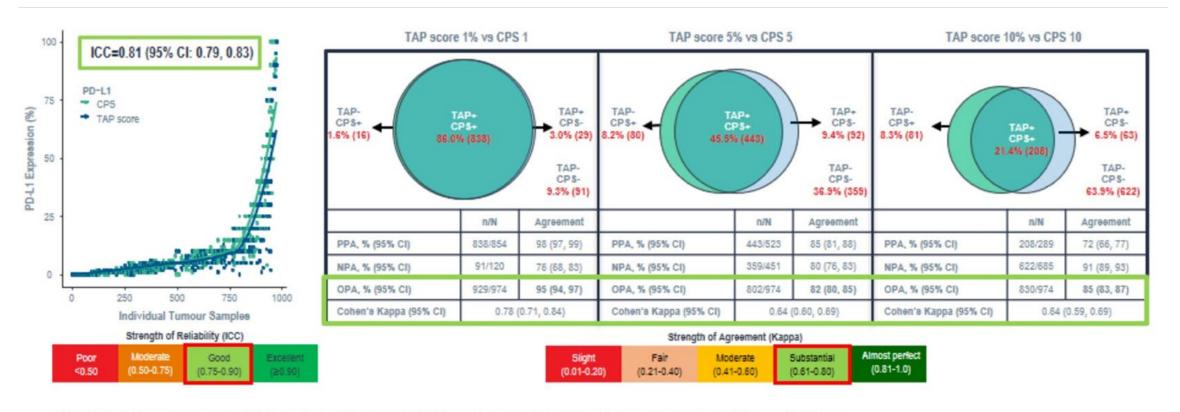
PD-L1 combined positive score (CPS):

of PD-L1-positive tumor cells, lymphocytes, and macrophages divided by the total number of viable tumor cells multiplied by 100; at least 100 viable tumor cells must be present

PD-L1 tumor area positivity (TAP) (%):

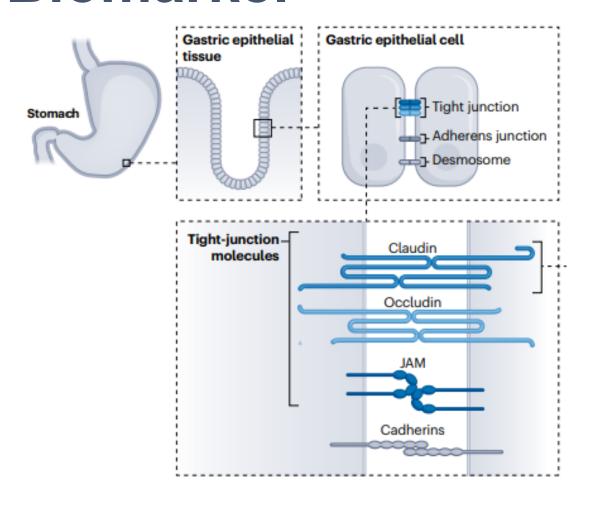
Ratio of the area occupied by PD-L1-positive tumor cells and immune cells to the total tumor area (no cell counting; visual estimation)

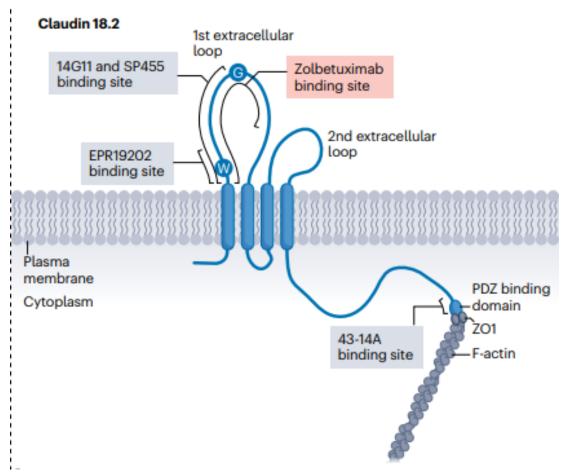
Concordance Between PD-L1 CPS and TAP Scores



Abbreviations: CI, confidence interval; CPS, combined positive score; GC/GEJC, gastric or gastro-oesophageal junction adenocarcinoma; NPA, negative percent agreement; PPA, positive percent agreement; PD-L1, programmed death-ligand 1; TAP, Tumor Area Positivity.

Claudin 18.2: A Novel Cancer Biomarker





Emerging Information on Biomarker Overlap: Clinical Decision Challenge

	CLDN 18.2+	CLDN 18.2 -
HER2+	15%-21%	14%-34%
dMMR/MSI-H	5%-14%	6%-17%
PD-L1 ≥ 1	26%-79%	21%-71%
PD-L1 ≥ 5	18%-42%	21%-52%

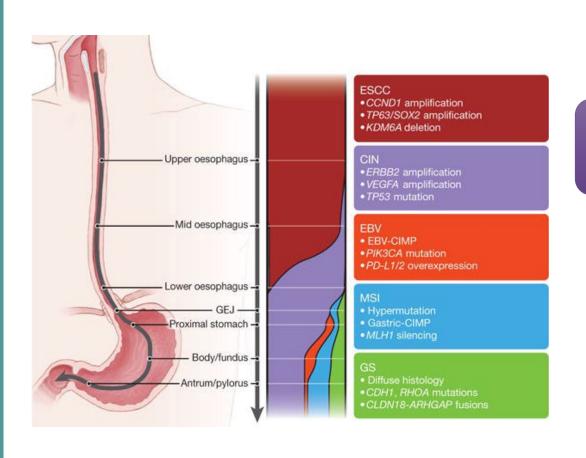
Treatment selection will depend on:

- Efficacy
- Toxicity profile
- Turnaround time for testing results
- Tissue availability

<u>Sequential</u> testing will be a challenge given disease-related symptomatic burden.

<u>Reflex</u> IHC testing for all relevant biomarkers will be essential.

Growing Number of New Treatments Are Biomarker Based



Established Biomarkers

HER2 10%-20% MSI/MMR IHC 5%-10%

PD-L1 40%-60%

Emerging Biomarkers

FGFR2b ~30%

Claudin 18.2 30%-40%

HER2-Negative Gastric/Gastroesophageal Junction Cancers

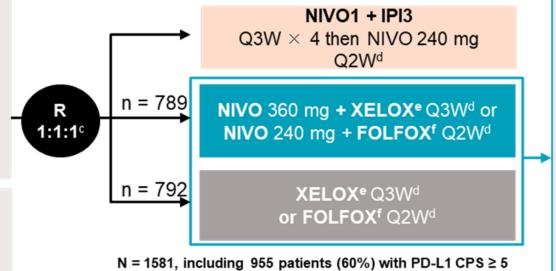
CheckMate 649: Phase 3 Global Study of Nivolumab & Chemo vs Chemo in First-Line Esophagogastric Adenocarcinomas

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 (≥ 1% vs < 1%b)
- Region (Asia vs United States/Canada vs ROW)
- ECOG PS (0 vs 1)
- · Chemo (XELOX vs FOLFOX)



Dual primary endpoints:

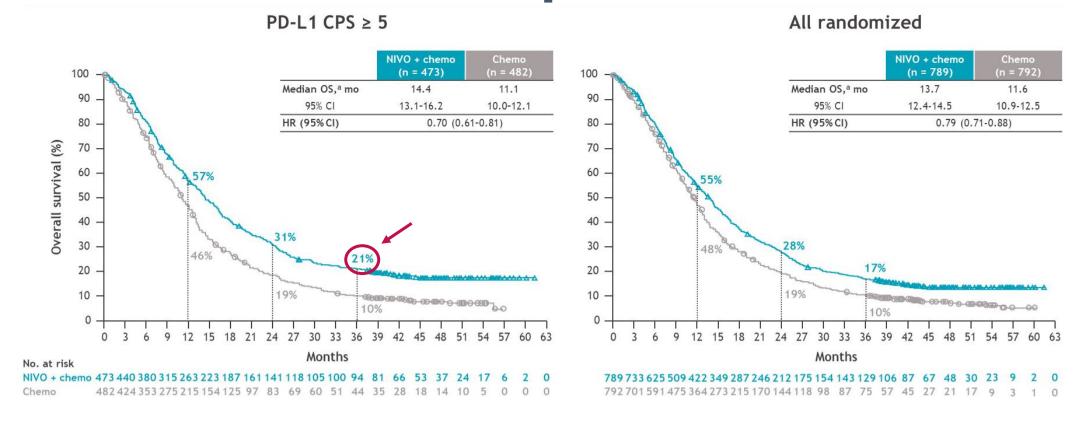
OS and PFS^g (PD-L1 CPS ≥ 5)

Secondary endpoints:

- OS (PD-L1 CPS ≥ 1 or all randomized)
- **OS** (PD-L1 CPS ≥ 10)
- PFS^g (PD-L1 CPS ≥ 10, 1, or all randomized)
- ORRg

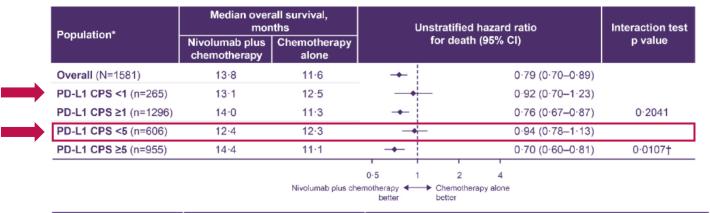
aClinicalTrials.gov number, NCT02872116; b< 1% includes indeterminate tumor cell PD-L1 expression; determined by PD-L1 IHC 28-8 pharmDx assay (Dako); cAfter NIVO + chemo arm was added and before new patient enrollment in the NIVO1+IPI3 group was closed; dUntil documented disease progression (unless consented to treatment beyond progression for NIVO + chemo), discontinuation due to toxicity, withdrawal of consent, or study end. NIVO is given for a maximum of 2 years; Coxaliplatin 130 mg/m² IV (day 1) and capecitabine 1000 mg/m² orally twice daily (days 1–14); Coxaliplatin 85 mg/m², leucovorin 400 mg/m², and FU 400 mg/m² IV (day 1) and FU 1200 mg/m² IV daily (days 1–2); BICR assessed; Time from concurrent randomization of the last patient to NIVO + chemo vs chemo to data cutoff.

CheckMate 649: Overall Survival With 36-Month Follow-Up

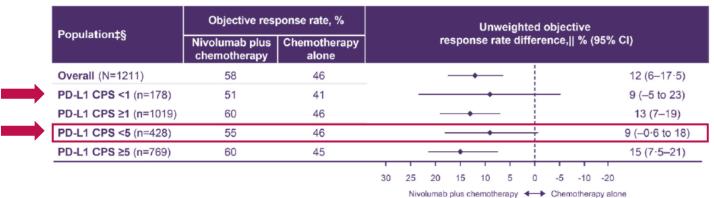


Clinically meaningful improvement in OS with NIVO + chemo vs chemo was maintained with longer follow-up in PD-L1
 CPS ≥ 5 and all randomized populations

CheckMate 649: Subgroup Analyses



Overall Survival



Objective Response Rate

NCCN category 1 recommendation: Nivolumab should be reserved for those with PD-L1 CPS ≥ 5 tumors

CheckMate 649: Safety Summary

Adverse Event, n (%)	Nivo + Cl	Γ (n = 782)	CT (n = 767)		
Adverse Event, II (70)	Any Grade	Grade 3/4	Any Grade	Grade 3/4	
Any TRAE	739 (95)	473 (60)	682 (89)	346 (45)	
Serious TRAE	176 (23)	134 (17)	95 (12)	78 (10)	
TRAEs leading to d/c	331 (42)	147 (19)	198 (26)	73 (10)	
Treatment-related deaths	16 (2)*		4 (<1)†		
Potential immunologic TRAE Inductine GI Hepatic Pulmonary Renal Skin	109 (14) 265 (34) 211 (27) 41 (5) 28 (4) 219 (28)	6 (< 1) 43 (5) 32 (4) 14 (2) 7 (<1) 28 (4)	3 (<1) 208 (27) 140 (18) 4 (<1) 9 (1) 109 (14)	0 25 (3) 18 (2) 1 (<1) 2 (<1) 9 (1)	

^{*}Due to pneumonitis (n = 4), febrile neutropenia or neutropenic fever (n = 2), acute cerebral infarction or stroke (n = 2), and disseminated intravascular coagulation, GI bleeding, GI toxicity, infection, intestinal mucositis, mesenteric thrombosis, pneumonia, and septic shock (n = 1 each).

- Most common grade 3/4 TRAEs:
 - Nivo + CT: neutropenia (16%), neutrophil count decreased (11%), anemia (6%), increased lipase (6%)
 - CT: neutropenia (13%), neutrophil count decreased (9%), diarrhea (3%), peripheral neuropathy (3%), anemia (3%), vomiting (3%)
- Most TRAEs with potential immunologic etiology emerged within first 6 mo of treatment across all organ categories

[†]Due to asthenia and severe hyporexia, diarrhea, pneumonitis, and pulmonary thromboembolism (n = 1 each).

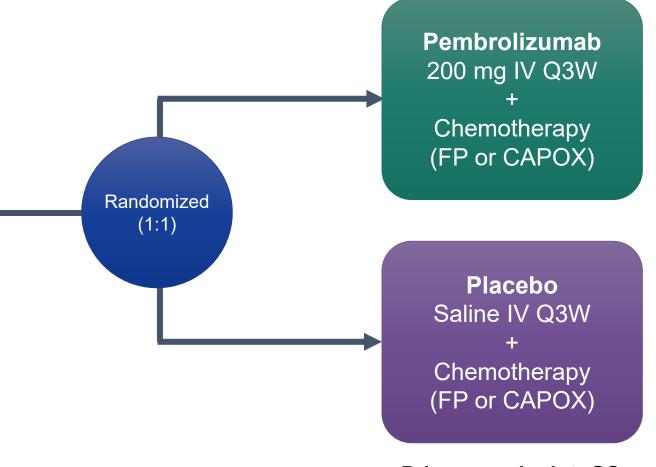
KEYNOTE-859: Phase 3 Study of Pembrolizumab + Chemotherapy in G/GEJ Adenocarcinoma

Key eligibility criteria

- Histologically or cytologically confirmed locally advanced unresectable or metastatic gastric/GEJ adenocarcinoma
- Known PD-L1 status
- HER2-negative status
- Measurable disease per RECIST v1.1
- ECOG PS 0 or 1
- Available tumor tissue
- No prior treatment for advanced gastric/GEJ cancer

Stratification

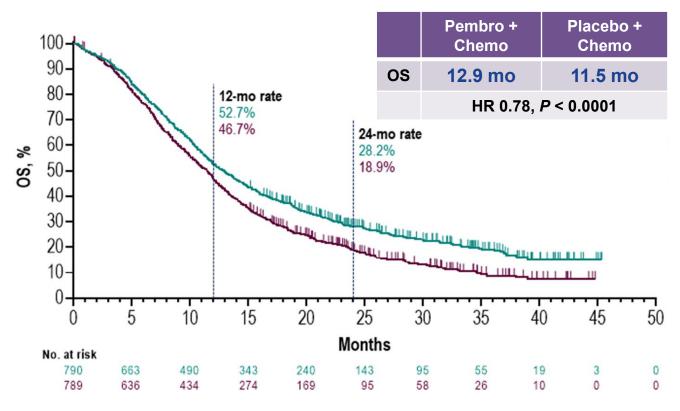
- Geographic region
- PD-L1 CPS
- Combination chemotherapy



Primary endpoint: OS

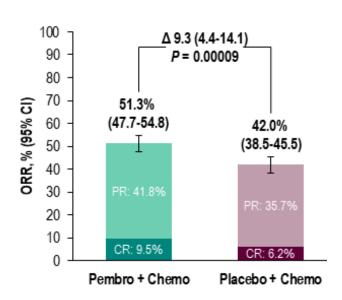
KEYNOTE-859: Efficacy Outcomes (ITT Population)

Overall Survival

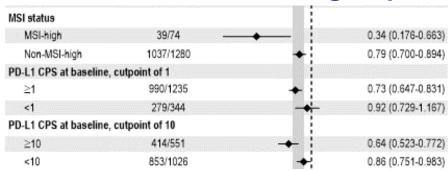


No new safety signals

Overall Response Rate



Overall Survival in Subgroups



RATIONALE-305: Phase 3 Study of Tislelizumab vs Placebo + Chemo in First-Line for Advanced G/GEJ Adenocarcinoma

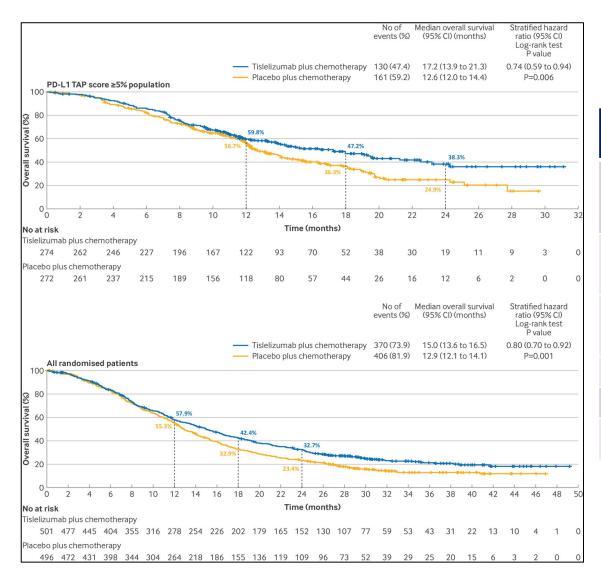
BeiGene's Biologics License Application for TEVIMBRA® (tislelizumab) for First-Line Gastric or Gastroesophageal Junction Cancers Accepted by FDA

Feb 27, 2024 6:00 AM

Application based on results from global Phase 3 RATIONALE-305 trial demonstrating TEVIMBRA plus chemotherapy significantly improved overall survival in advanced gastric/GEJ cancer

Initial up to 6 treatment cycles^a **Primary endpoints** Key eligibility criteria: TIS 200 mg IV Q3W OS in PD-L1+ (PD-L1 score ≥5%b) and ITT analysis set + chemo (XELOX or FPd) Histologically confirmed Secondary endpoints^c GC/GEJC PFS. ORR. DoR. DCR. CBR. TTR. HRQoL. safety Exclude patients with Maintenance treatment until unacceptable toxicity or disease progression **HER2-positive tumors** 1:1 Stratification No previous therapy for Region of enrolment unresectable, locally advanced Placebo IV Q3W Peritoneal metastasis or metastatic GC/GEJC + chemo (XELOX or FPd) • PD-L1 score (PD-L1 ≥5% vs <5%b) · Investigator's choice of chemo Statistical considerations: • If OS in the PD-L1+ analysis set is statistically significant, OS in the ITT analysis set is tested hierarchically • An interim analysis was performed based on 291 actual observed events for the PD-L1+ analysis set, and the updated one-sided *P* value boundary was 0.0092

RATIONALE-305: Efficacy Results



	PD-L1	TAP ≥ 5	All randomized patients		
	Chemo + Chemo + Tisle Placebo		Chemo + Tisle	Chemo + Placebo	
OS (mo)	17.2	12.6	15.0	12.9	
	HR	0.74	HR 0.80		
DEC (max)	7.2 5.9		6.9	6.2	
PFS (mo)	HR	0.67	HR 0.78		
Confirmed ORR (%)	50	43	47	41	
DCR (%)	88	83	87	83	
Median DOR (mo)	9.0	7.1	8.6	7.2	

Rationale-305: Safety Summary

Table 2 | Treatment related adverse events with an incidence ≥10% by preferred term and worst grade (safety population). Values are number (percentage) of patients by worst grade of event

	Tislelizuma	ab plus che	motherapy	(n=498)	Placebo plus chemotherapy (n=494)			494)
Adverse events	Grade 1-2	Grade 3	Grade 4	Grade 5	Grade 1-2	Grade 3	Grade 4	Grade 5
Any event	215 (43)	231 (46)	26 (5)	11 (2)	230 (47)	217 (44)	25 (5)	4 (<1)
Nausea	224 (45)	13 (3)	0 (0)	0 (0)	223 (45)	9 (2)	0 (0)	0 (0)
Decreased appetite	168 (34)	14 (3)	0 (0)	0 (0)	169 (34)	16 (3)	0 (0)	0 (0)
Decreased platelet count	118 (24)	41 (8)	15 (3)	0 (0)	126 (26)	46 (9)	11 (2)	0 (0)
Decreased neutrophil count	109 (22)	54 (11)	5 (1)	0 (0)	103 (21)	53 (11)	4 (<1)	0 (0)
Vomiting	150 (30)	11 (2)	0 (0)	0 (0)	150 (30)	12 (2)	0 (0)	0 (0)
Anaemia	133 (27)	25 (5)	0 (0)	0 (0)	126 (26)	35 (7)	2 (<1)	0 (0)
Increased aspartate aminotransferase	132 (27)	12 (2)	1 (<1)	0 (0)	133 (27)	4 (<1)	0 (0)	0 (0)
Decreased white blood cell count	104 (21)	14 (3)	1 (<1)	0 (0)	126 (26)	8 (2)	0 (0)	0 (0)
Increased alanine aminotransferase	105 (21)	8 (2)	0 (0)	0 (0)	93 (19)	4 (<1)	0 (0)	0 (0)
Diarrhoea	99 (20)	12 (2)	0 (0)	0 (0)	115 (23)	11 (2)	0 (0)	0 (0)
Peripheral sensory neuropathy	105 (21)	1 (<1)	0 (0)	0 (0)	113 (23)	3 (<1)	0 (0)	0 (0)
Palmar-plantar erythrodysaesthesia syndrome	80 (16)	15 (3)	0 (0)	0 (0)	83 (17)	10 (2)	0 (0)	0 (0)
Asthenia	66 (13)	10 (2)	0 (0)	0 (0)	64 (13)	7 (1)	0 (0)	0 (0)
Fatigue	66 (13)	9 (2)	0 (0)	0 (0)	55 (11)	6 (1)	0 (0)	0 (0)
Neutropenia	41 (8)	32 (6)	1 (<1)	0 (0)	46 (9)	32 (7)	2 (<1)	0 (0)
Hypoaesthesia	68 (14)	1 (<1)	0 (0)	0 (0)	67 (14)	0 (0)	0 (0)	0 (0)
Increased blood bilirubin	54 (11)	6 (1)	1 (<1)	0 (0)	55 (11)	3 (<1)	0 (0)	0 (0)
Thrombocytopenia	45 (9)	14 (3)	1 (<1)	0 (0)	42 (9)	12 (2)	2 (<1)	0 (0)
Decreased weight	58 (12)	0 (0)	0 (0)	0 (0)	53 (11)	0 (0)	0 (0)	0 (0)
Hypothyroidism	54 (11)	1 (<1)	0 (0)	0 (0)	12 (2)	0 (0)	0 (0)	0 (0)

Data cut-off was 28 February 2023.

Data are shown for all grade incidence of ≥10% in either treatment arm (see also supplementary appendix table S11).

Treatment related adverse events are sorted by decreasing frequency for all grade events in the tislelizumab plus chemotherapy arm. Patients with two or more adverse events in the same preferred term are counted only once for that preferred term. Adverse events were graded based on National Cancer Institute Common Terminology Criteria for Adverse Events version 5.0 and coded using Medical Dictionary for Regulatory Activities version 24.0.

No unexpected safety signals; similar safety profile to other anti-PD-1 and chemotherapy combinations in this patient population

Key Takeaways

- All advanced gastroesophageal adenocarcinomas should be tested for PD-L1 expression
- Chemotherapy with anti-PD-1 agents is standard first-line treatment for patients with PD-L1-positive tumors
- Pembrolizumab and nivolumab are approved
- Tislelizumab is under review at the FDA
- Similar efficacy trends across anti-PD-1 agents, with limited activity observed in patients with PD-L1 CPS <1 tumors
- No concerning safety signals when anti-PD-1 agents are added to chemotherapy

HER2-Positive Gastric/Gastroesophageal Junction Cancers

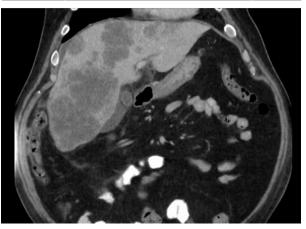
HER2+ Gastroesophageal Adenocarcinomas

- 15%-20% of gastroesophageal adenocarcinomas (GEA) are HER2+
- HER2 testing is indicated for locally advanced and inoperable, recurrent, or metastatic tumors
- No data to support targeting this pathway in early-stage disease
- In advanced disease, HER2 expression can change over time
- Concurrent alterations in other signaling cascades and changes in HER2 expression can affect therapeutic options

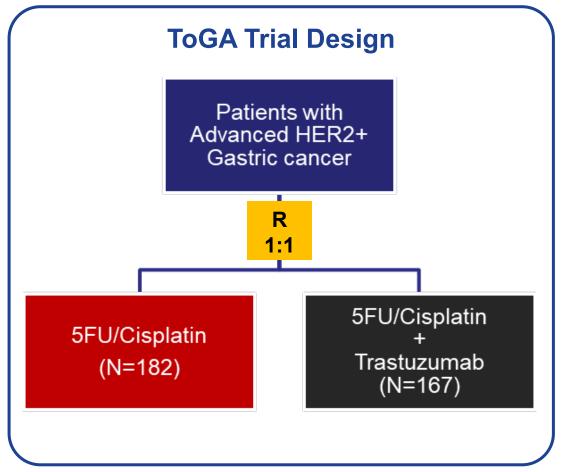
HER2+ GEA Case Presentation

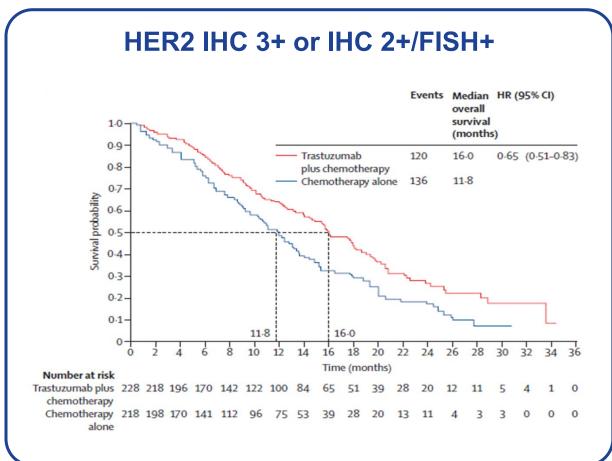
- **PRESENTATION**: 69-year-old man presented with a 3-month history of progressive dysphagia
- **EGD**: Partially obstructing, malignant esophageal tumor was found in the GEJ extending to gastric cardia
- PATHOLOGY: Invasive adenocarcinoma, with moderately differentiated features
- No loss of nuclear expression of MMR proteins; PD-L1 CPS 5%, HER2 IHC 3+
- IMAGING: Multiple liver lesions and enlarged retroperitoneal lymph nodes consistent with metastatic disease





ToGA Trial: Trastuzumab in First Line





Efforts to Target HER2 in Upper GI Cancers

	Study	N	Treatment Arms	OS (mo)	HR p	
	TOGA ¹	584	5FU/cis 5FU/cis + Trastuzumab	11.1 13.8	HR 0.74 p < 0.001	/
1 st Line -	LOGIC ²	545	XELOX + Lapatinib	10.5 12.2	HR = 0.91 $p = 0.34$	0
	JACOB ³	780	5FU/cis + trastuzumab + pertuzumab	14.2 17.5	HR = 0.84 p = 0.0565	0
	TyTAN ⁴	261	Paclitaxel + lapatinib	8.9 11.0	HR = 0.54 p = 0.21	0
2 nd Line	GATSBY ⁵	415	T-DM1 Taxane	7.9 8.6	HR = 1.14 p =0.31	0
	T-ACT ⁶ (Phase 2)	91	Paclitaxel + Trastuzumab	9.95 10.20	HR = 1.23 p = 0.199	0

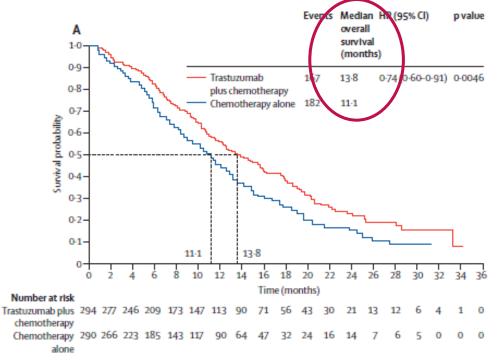
^{1.} Bang YJ, et al. Lancet. 2010;376(9742):687-697. 2. Hecht JR, et al. J Clin Oncol. 2016;34(5):443-451.

^{3.} Tabernero J, et al. *Gastric Cancer*. 2023;26(1):123-131. 4. Satoh T, et al. *J Clin Oncol*. 2014;32(19):2039-2049.

^{5.} Shah MA, et al. *Gastric Cancer*. 2019;22(4):803-816. 6. Makiyama A, et al. *J Clin Oncol*. 2020;38(17):1919-1927.

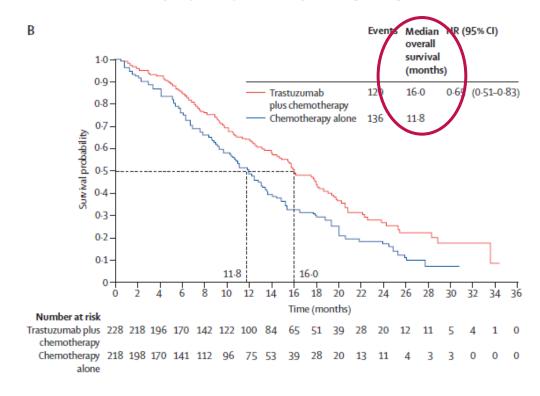
Lesson From ToGA Trial: Biomarker Selection Matters

ITT subjects



^{*} Included patients with FISH+/IHC 0 and FISH+/IHC 1+ tumors

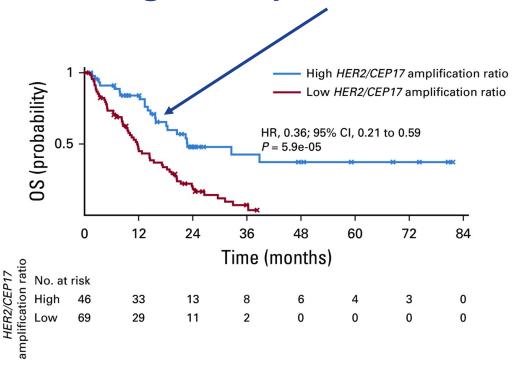
IHC 3+ or IHC 2+/FISH+

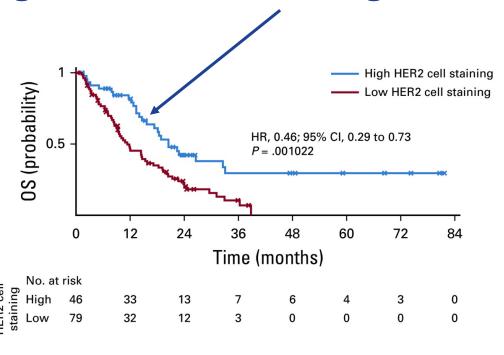


Level of HER2 Expression and Amplification Matters

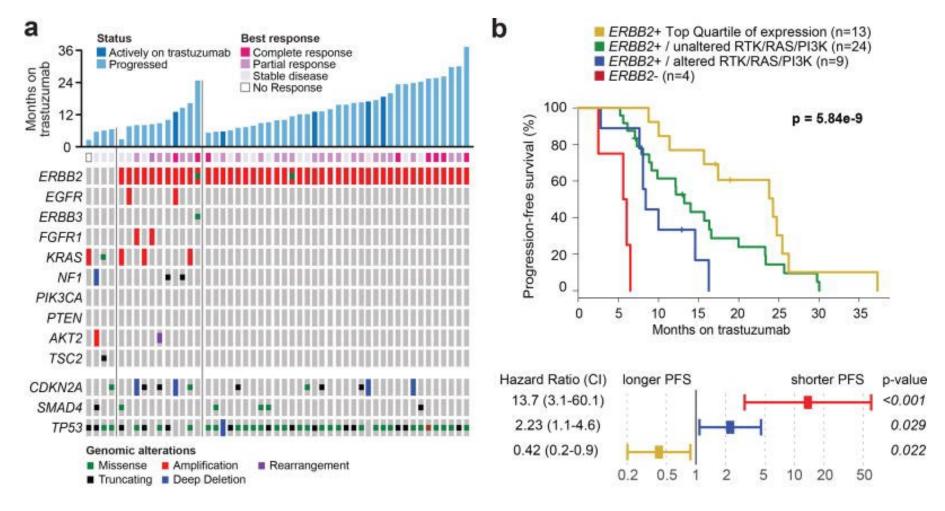
Higher OS probability with

higher amplification ratio and higher HER2 cell staining



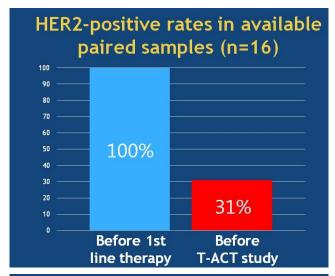


Genomic Biomarkers and Anti-HER2 Efficacy: Concurrent Alterations Matter



HER2 Expression Can Change Over Time: Repeat Testing Needed

T-ACT Trial



	e 1st line t		Before T-ACT trial		
HER2 sta	tus IHC	FISH	HER2 status	IHC	FISH
+	3	-	+	3	+
+	3	-	+	3	+
+	3	-	+	3	+
+	3	-	+	2	+
+	3	-	+	2	+
+	3	-	-	1	+
+	3	-	-	1	-
+	3	-	.=	1	+
+	3	-	-	1	-
+	2	+	-	1	+
+	3	-	-	0	-
+	3	-	-	0	-
+	3	-	-	0	-
+	3	-	-	0	-
+	2	+	-	0	-
+	2	+	-	0	-
Definition	of HER2 po	sitive: IH	IC3+ or IHC	2+ with	FISH pos

GASTHER3 Study

14/43 patients with loss of HER2 expression after trastuzumab

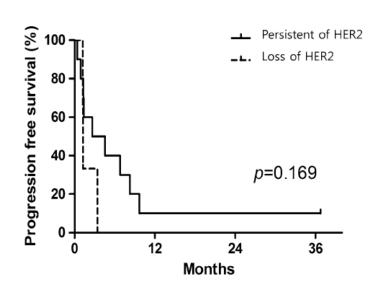


Fig. 3 Impact of HER2 status changes on progression-free survival in patients treated with second-line T-DM1 therapy

HER2 Post Trastuzumab

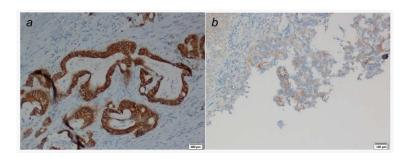
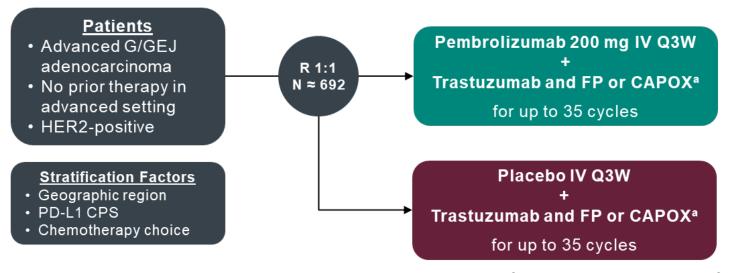


Table 2. Change in HER2 status after trastuzumab-based chemotherapy

Pretreatment tumor HER2 status (N = 22)			Post-treatment tu HER2 status (N = 2		
	N	%		N	%
Positive	22	100	Positive	13	59
			Negative	6	27
			Not assessable	3 (14
Overexpressed	22	100	Overexpressed	15	68
			Loss of HER2 overexpression	7	32

Pembrolizumab for HER2+ GEA in First Line: KEYNOTE-811 Study Design



Dual Primary End Points

- OS
- PFS (RECIST v1.1 per BICR)

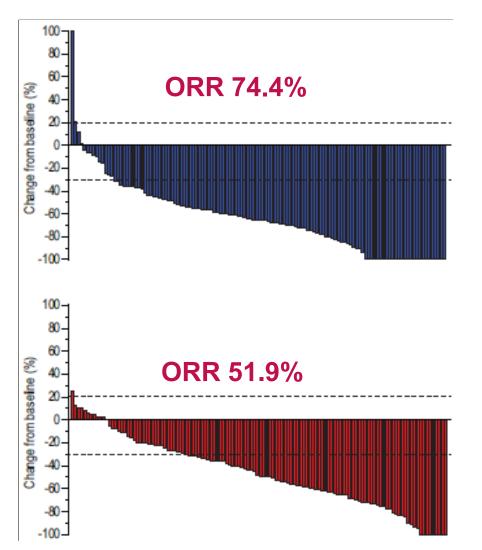
Secondary End Points

- ORR (RECIST v1.1 per BICR)
- DOR (RECIST v1.1 per BICR)
- Safety

Trastuzumab dose: 6 mg/kg IV Q3W following an 8 mg/kg loading dose. FP dose: 5-fluorouracil 800 mg/m² IV on D1-5 Q3W + cisplatin 80 mg/m² IV Q3W. CAPOX dose: capecitabine 1000 mg/m² BID on D1-14 Q3W + oxaliplatin 130 mg/m² IV Q3W.

BICR, blinded independent central review; CPS, combined positive score (number of PD-L1-staining cells [tumor cells, lymphocytes, macrophages] divided by the total number of viable tumor cells, multiplied by 100).

KEYNOTE-811: First Interim Analysis Results



	Pembro (N = 133)	Placebo (N = 131)
ORR	74.4%	51.9% <i>P</i> = 0.00006
CR	11%	4%
DCR	96.2%	89.3%
DOR	10.6 mo	9.5 mo

5/5/2021: pembrolizumab received accelerated FDA approval in this setting

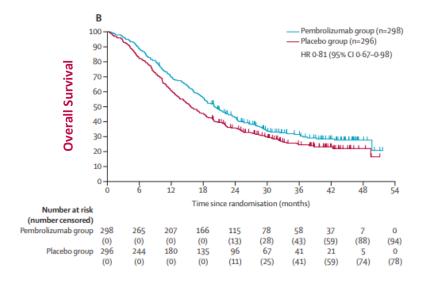
Does PD-L1 expression matter?

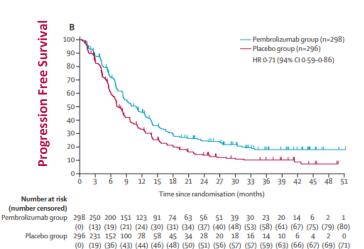
Updated Efficacy Results: Third Interim Analysis

- Median follow-up time: 38.4 mo
- 85% of patients w/ PD-L1 CPS ≥ 1 tumors
- 39% of patients in the pembrolizumab group and 47% in the placebo group received second-line treatment
- FDA restriction to PD-L1 CPS ≥ 1 tumors

	Pembrolizumab	Placebo	
OS (all)	20 mo	16.8 mo	HR 0.84
OS (PD-L1 CPS ≥ 1)	20 mo	15.7 mo	HR 0.81
PFS	10 mo	8.1 mo	
ORR	72.6%	60.1%	
DOR	11.3 mo	9.5 mo	

Patients with PD-L1 CPS ≥ 1 tumors





KEYNOTE-811: Safety Profile

	Pembrolizumab group (N=350)		Placebo group	o (N=346)
	Any	Grade ≥3	Any	Grade ≥3
Any adverse event	347 (99%)	248 (71%)	346 (100%)	225 (65%)
Any treatment-related adverse event*	341 (97%)	204 (58%)	334 (97%)	176 (51%)
Serious	88 (25%)	76 (22%)	79 (23%)	66 (19%)
Led to death	4 (1%)	4 (1%)	3 (1%)	3 (1%)
Led to discontinuation of any drug	124 (35%)	59 (17%)	108 (31%)	44 (13%)
Any adverse event of interest†	132 (38%)	36 (10%)	83 (24%)	12 (3%)
			(Table 2 continue	s on next page

No new **unexpected** safety signals

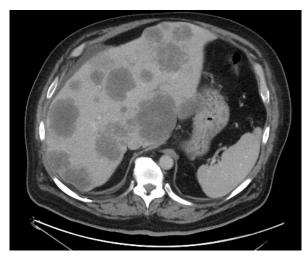
In the experimental group, the most common treatment-related AEs were:

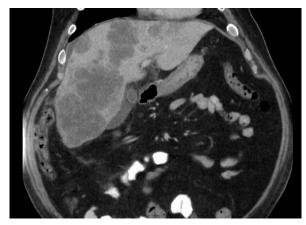
- Infusion reactions
- Hypothyroidism
- Pneumonitis
- Colitis

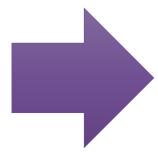
Grade ≥ 3 immune-mediated adverse events occurred in 36 (10%) patients in the pembrolizumab group.

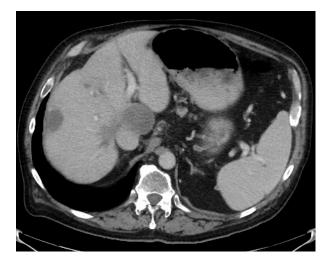
On May 1, 2024, Merck announced that KEYNOTE-811 met the dual primary endpoint of overall survival.

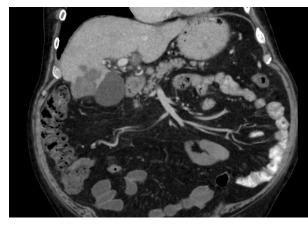
After 6 Months of FOLFOX/Trastuz/ Pembrolizumab









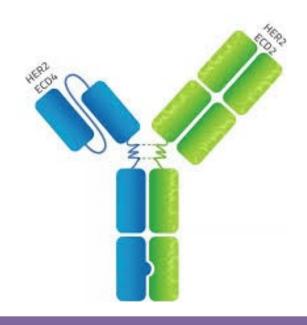


HER2+ Gastroesophageal Adenocarcinoma Key Takeaways

- All advanced HER2+ gastroesophageal adenocarcinomas should be treated with trastuzumab-containing regimens in the first-line setting
- Pembrolizumab should be added if tumors also have PD-L1 CPS ≥ 1
- KEYNOTE-811 regimen produces significant response rates and OS benefits with no unexpected safety signals

Novel Biomarker-Based Therapies

Zanidatamab: Bispecific HER2-Directed Ab

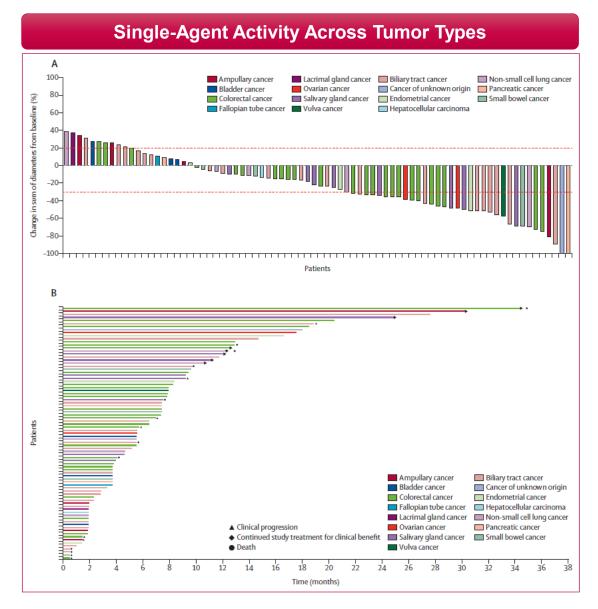


Simultaneously binds two HER2 epitopes:

- ECD4 trastuzumab binding domain
- ECD2 pertuzumab binding domain

Multiple mechanisms of action:

- Improved binding, clustering & receptor internalization
- Inhibition of ligand-dependent & independent proliferation
- Potent activation of ADCC



Phase 2 Study of Zanidatamab + Chemo in First Line for HER2+ GEA

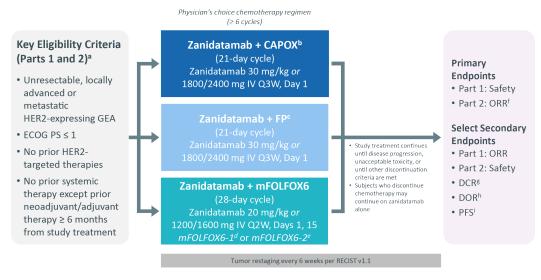


Figure 5: Progression-free Survival

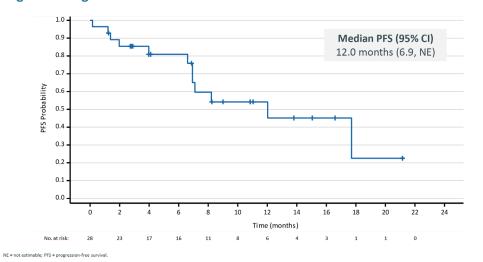
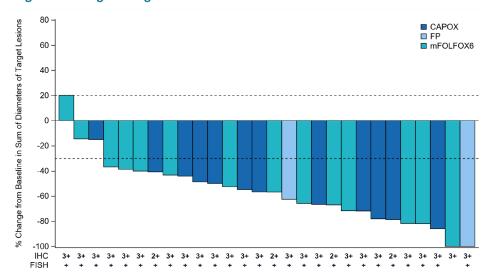


Figure 3: Change in Target Lesion Size



	Zanidatamab + CAPOX	Zanidatamab + FP	Zanidatamab + mFOLFOX6	Total
HER2-positive subjects ^a	(n = 12)	(n = 2)	(n = 14)	(N = 28)
cORR, ^b % (95% CI)	92 (61.5, 99.8)	100 (15.8, 100)	57 (28.9, 82.3)	75 (55.1, 89.3)
CR, n (%)	0	0	1 (7)	1 (4)
PR, n (%)	11 (92)	2 (100)	7 (50)	20 (71)
SD, n (%)	1 (8)	0	3 (21)	4 (14)
PD, n (%)	0	0	3 (21)	3 (11)
DCR, % (95% CI)	100 (73.5, 100)	100 (15.8, 100)	79 (49.2, 95.3)	89 (71.8, 97.7)
Median DOR (range), months	NR (2.7, 15.2+)	NR (6.8, 12.5+)	16.4 (1.4, 19.8+)	16.4 (1.4, 19.8+)

*HEXP_copositive was defined as IniC 3 or IniC 27/F3151. *CoRR included a baseline scan and a confirmatory scan obtained 2 a weeks following initial documentation of objective response; the efficacy-evaluable population was defined as all HEXP_copositive subjects who had 2 it weeks included poor a baseline disease assessment or disconstruined study for transment due to effect and or clinical programs. • inclicates that the subject is in response at the fitter of disease assessment or disconstruined study for transment due to effect and or clinical programs. • inclicates that the subject is in response at the fitter of disease assessment or disconstruined study. • in inclicates that the subject is in response at the fitter of disease struct partial or disconstruined. • in inclicate that the subject is in response at the fitter of disease struct partial or disconstruined. • in inclicate that the subject is in response at the fitter of the subject is in response at the fitter of the subject is in response at the fitter of the subject is in response at the fitter of the subject is in response at the fitter of the subject is in response at the fitter of the subject is in response at the fitter of the subject is in response. The subject is in response at the fitter of the subject is in response at the fitter of the subject is in response. The subject is in response at the fitter of the subject is in response. The subject is in response at the fitter of the subject is in response. The subject is response at the fitter of the subject is in response. The subject is response at the fitter of the subject is response. The subject is response at the fitter of the subject is response. The subject is response at the fitter of the subject is response. The subject is response at the fitter of the subject is response. The subject is response at the fitter of the subject is response. The subject is response at the fitter of the subject is response at the response at the subject is response. The subject is response at the fitter o

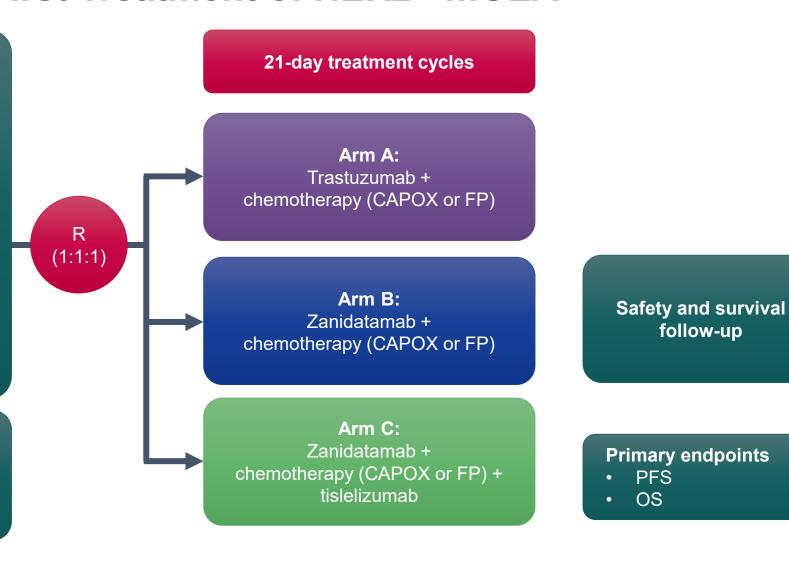
HERIZON-GEA-01: Phase 3 Study of Zanidatamab & Chemo +/- Tislelizumab in First Treatment of HER2+ mGEA

Key eligibility requirements

- Unresectable, locally advanced or metastatic GEA
- HER2-positive (IHC 3+ or IHC 2+/ISH+) per central testing of new or archival tumor tissue
- No prior therapy in the advanced/metastatic setting
- Prior treatment with HER2targeted agents or checkpoint inhibitors in adjuvant setting is also not permitted
- Any PD-L1 status

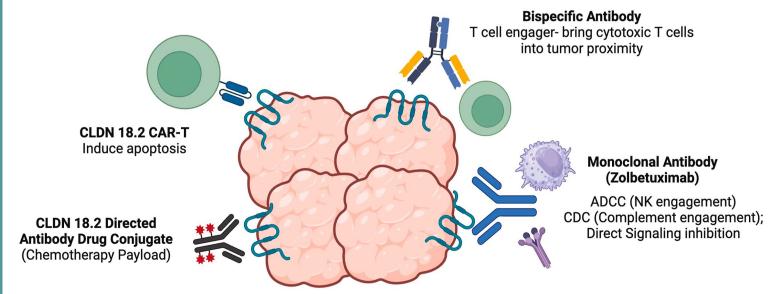
Stratification factors:

 By geographic region, HER2 status, and ECOG performance status



Targeting Claudin 18.2

Targeting Claudin 18.2

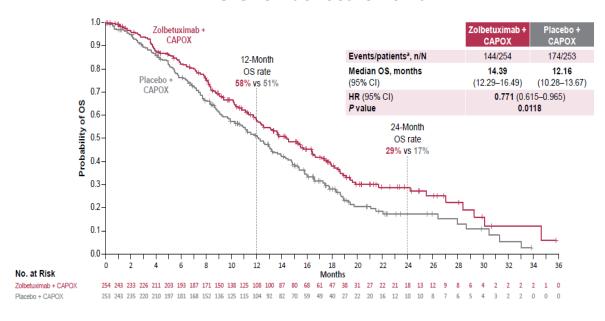


Threshold for claudin 18.2 positivity differs across ongoing studies.

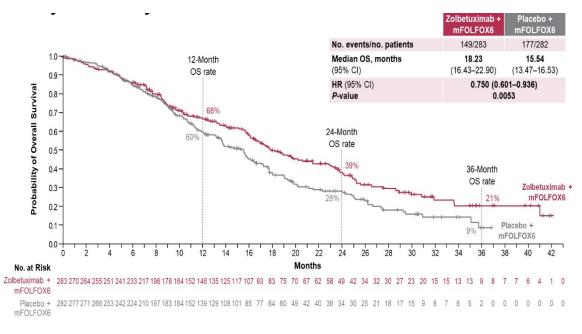
In phase 3 SPOTLIGHT and GLOW studies, CLDN 18.2 positive was defined as >75% of tumor cells showing moderate to strong membranous CLDN 18.2 staining with IHC using VENTANA 43–14A clone.

Zolbetuximab for Claudin 18.2+ Advanced GEA

GLOW: Phase 3 Study of Zolbetuximab + CAPOX in 1L Claudin 18.2+ (CLDN 18.2)/HER2- Locally Advanced or Metastatic G/GEJ Adenocarcinoma¹



SPOTLIGHT: Phase 3 Study of Zolbetuximab + mFOLFOX6 in 1L Claudin 18.2+ (CLDN 18.2)/HER2- Locally Advanced or Metastatic G/GEJ Adenocarcinoma²

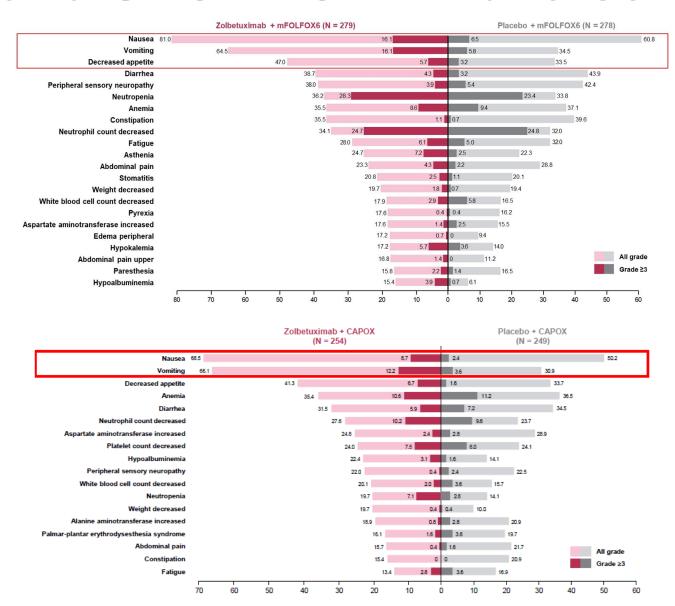


Median PFS 8.21 months vs 6.80 months; HR = 0.687; 95% CI 0.544-0.866; P = 0.0007

Median PFS 10·61 months vs 8·67 months; HR 0.75; 95% CI 0.60-0.94; P = 0.0066

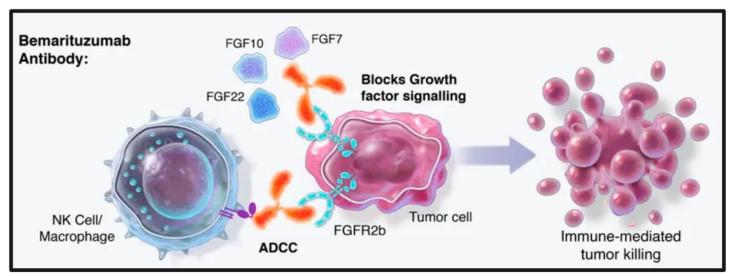
- PFS was the primary endpoint and was statistically significantly improved by zolbetuximab in both studies
- OS was a secondary endpoint and was improved in both studies by the addition of zolbetuximab to CAPOX or mFOLFOX6

GLOW and SPOTLIGHT: Adverse Events



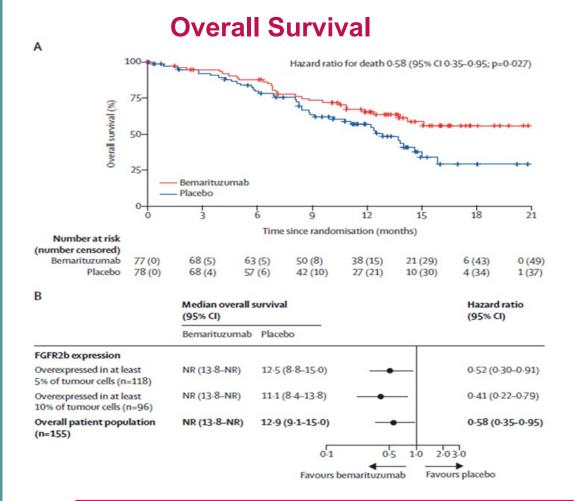
Targeting FGFR2b: Bemarituzumab Against FGFR2b-Positive GEA

- First-in-class, humanized, IgG1 monoclonal antibody directed against fibroblast growth factor receptor 2b (FGFR2b)
- Antitumor activity via blockade of FGFR2-dependent signaling and antibody-dependent cellmediated cytotoxicity



- Currently investigated in phase 3 trials:
 - 1. FORTITUDE-101 in combination with mFOLFOX6 (NCT05052801)
 - 2. FORTITUDE-102 in combination with mFOLFOX6 + nivolumab (NCT05111626)

Bemarituzumab Efficacy and Safety: FIGHT Trial

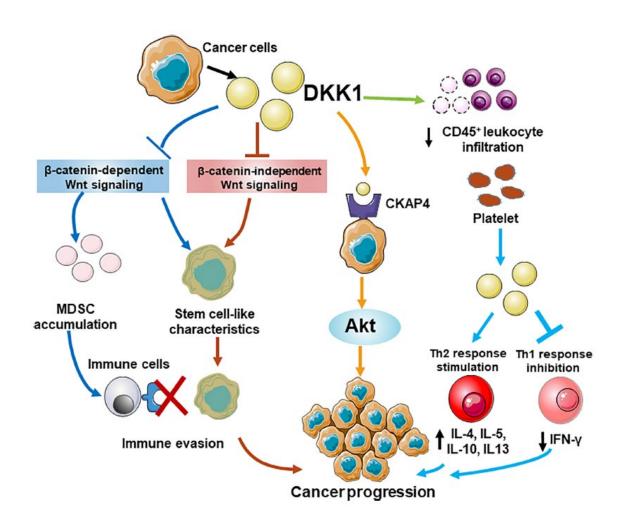


Safety Analyses

- Grade ≥3 adverse events occurring with higher incidence in the bemarituzumab-containing arm vs placebo were the following:
 - Decreased neutrophil count (23 [30%] of 76 in the bemarituzumab arm vs 27 [35%] of 77 in the placebo arm)
 - Cornea disorder (18 [24%] vs none)
 - Neutropenia (10 [14%] vs 7 [9%])
 - Stomatitis (7 [9%] vs 1 [1%])
 - Anemia (6 [8%] vs 10 [13%])
- All-grade corneal events (adverse events of special interest) occurred in 51 (67%) patients in the bemarituzumab group and 8 (10%) in the placebo group
 - Grade 3 corneal events: 18 (24%) patients in the bemarituzumab group

Improved OS in FGFR2b+ GEA with addition of bemarituzumab to mFOLFOX6 from the phase 2 FIGHT trial

DKK1 and DKN-01 Antibody



DKK1

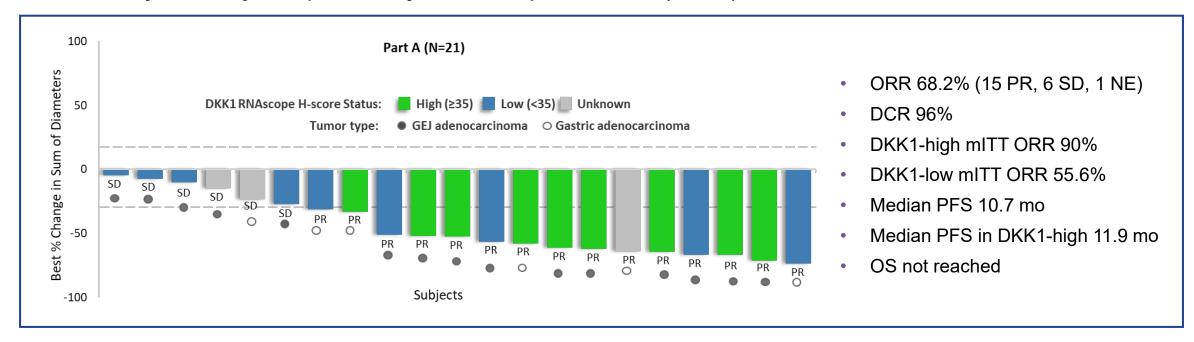
- Modulates Wnt signaling
- Promotes proliferation, metastasis, and angiogenesis
- Suppresses antitumor immune responses
- Activates Akt signaling through CKAP4 receptor

DKN-01

- Humanized monoclonal ab against DKK1
- In vivo, DKN-01 downregulates Akt activity and upregulates PD-L1 expression

DKN-01 in Combination With Tislelizumab and Chemotherapy as a First-Line Therapy in Advanced GEA: DisTinGuish Trial

- Tumoral DKK1 mRNA expression: assessed by a chromogenic in situ hybridization RNAscope assay and assigned an H-score (0-300)
- High score ≥ 35
- Primary efficacy endpoint: objective response rate (ORR)



Monitoring and Managing Adverse Events





NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®)

Management of Immunotherapy-Related Toxicities

Management of Immune-Related Adverse Events in Patients Treated With Immune Checkpoint Inhibitor Therapy: ASCO Guideline Update

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Zolbetuximab: Gl-Associated Toxicities

- The most frequent treatment-emergent adverse events (TEAEs) ≥20% for zolbetuximab in combination with chemotherapy were nausea, vomiting, decreased appetite, neutropenia, and decreased weight
- GI toxicities (nausea and vomiting in particular) are thought to be on-target effects of zolbetuximab, given normal expression of claudin 18.2 in gastric mucosa
- Management strategies include antiemetics, dose interruptions, and infusion rate adjustments
- Consensus guidance for management of nausea/vomiting in patients treated with zolbetuximab + chemotherapy (RAND/UCLA modified Delphi panel study) are under development

Summary

- Gastroesophageal adenocarcinomas are a group of heterogeneous disorders
- Personalized approaches are key for best patient outcomes
- Reflex testing for MMR protein expression, HER2, and PD-L1 are current standard of care
- Claudin 18.2 is an emerging biomarker, given expected approval of zolbetuximab in the first-line setting
- Biomarker overlap will challenge clinical decision-making in practice
- Both efficacy and safety of treatments will need to be considered for best treatment selection