

How I Treat Metastatic Esophageal and Gastric Cancer in 2023

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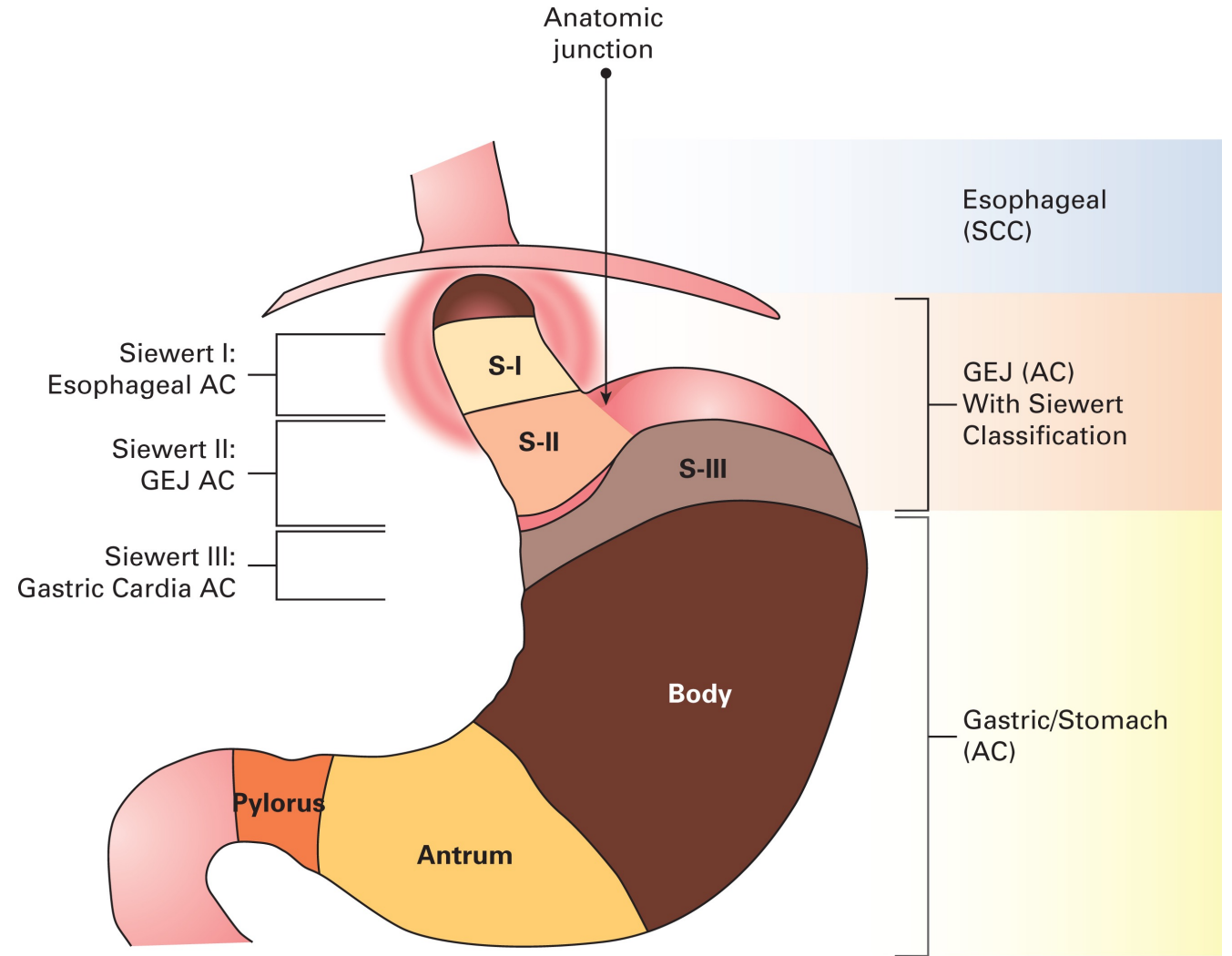
MLS Cleveland

Outline

- Overview of Gastroesophageal Cancers
- Staging approach
- Treatment Metastatic disease By subtype
- Oligometastatic disease

Overview

- 3 histological subtypes
 - Esophageal SCC
 - Distal Esophageal/GEJ AC
 - Gastric AC
- Personalized therapies
 - HER2/ERBB2 overexpressing
 - MMR/MSI
 - Anti-PD-1
 - (Claudin 18.2)



N.A. Dasari, C.D. Weekes, ASCO SEP 2022

Diagnostic W/U

Esophageal

- CT C/A with oral/IV contrast
- EUS in absence of overt metastatic disease
- Laparoscopy for GEJ in absence of overt metastatic disease
- Consideration for nutrition (PEG vs SEMS)

Gastric

- CT C/A/P with oral/IV contrast
- Laparoscopy in absence of overt metastatic disease

Metastatic disease statistics

Esophagus Cancer and GEA

- 50+% present with metastatic disease
- Locations
 - Liver (56%)
 - Distant LN (53%)
 - Lung (50%)
 - Peritoneum, adrenals, bone (20-30%)

Gastric Cancer

- >40% present with metastatic disease
- Locations
 - Peritoneum (53-60%)
 - Liver (48%)
 - Lung /plerua (21%)
 - Bone (12%)
 - CNS (3%)

Pathology Primer

- HER2/ERBB2 (7-34% overexpressed)
 - IHC 0-1+ = Negative
 - 2+ = Equivocal **needs ISH**
 - 3+ = Positive
 - Amplification measured by NGS
- MMR/MSI (8-20% deficient/high)
 - MMR: IHC for MLH1, MSH2, MSH6, PMS2
 - MSI: PCR or NGS for (BAT25, BAT26, MONO27, NR21, NR24)
- PD-L1 (>50%)
 - Combined Positive Score (CPS): PD-L1 + cells divided by total viable tumor cells x 100.

Oligometastatic disease

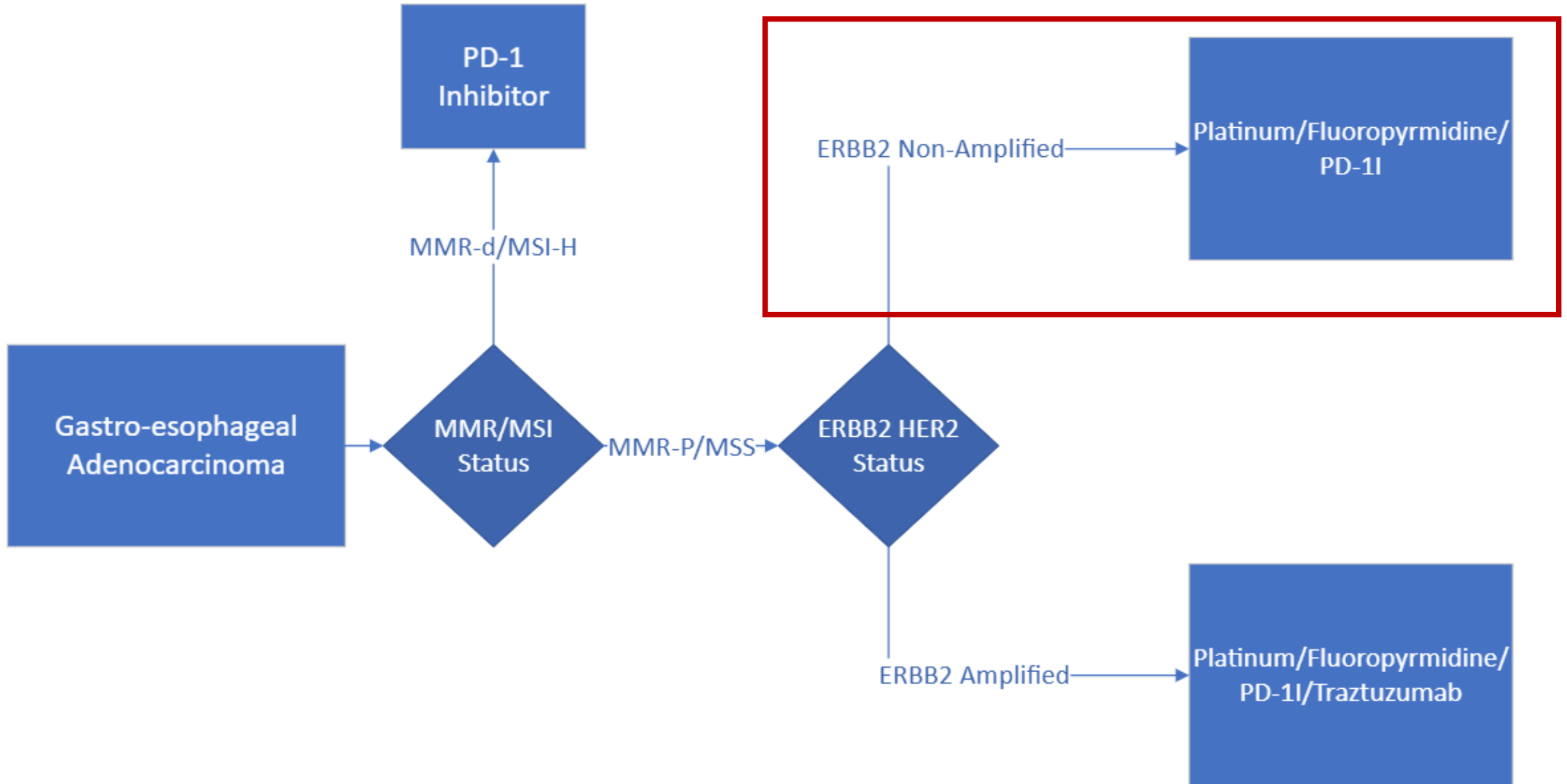
Gastric

- AIO-FLOT3 Phase 2
- Limited metastasis (1 site, +/- RP LN)= Arm B n=60
- FLOT x 4 then chemo vs surgery
- mOS 22.9mo
- RENAISSANCE (AIO-FLOT5)
- Results pending...

Esophagogastric

- L. Puckett et al Cohort study (GI ASCO 2022)
- 77 pts, 35 with oligomet ds (≤ 5)
- 18 with dCRT, 17 palliative tx
- mOS 91.4 v 8.2 mo

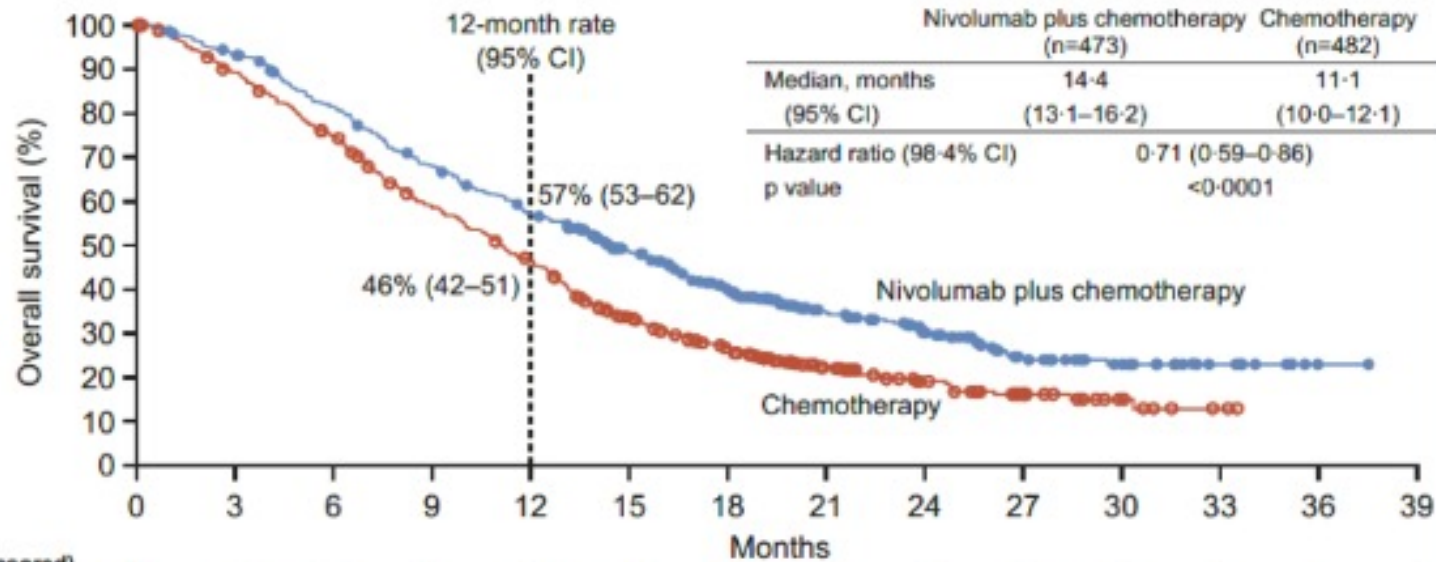
Treatment algorithm for mGEA



Trials of chemo + PD-1 inhibition in mGEA

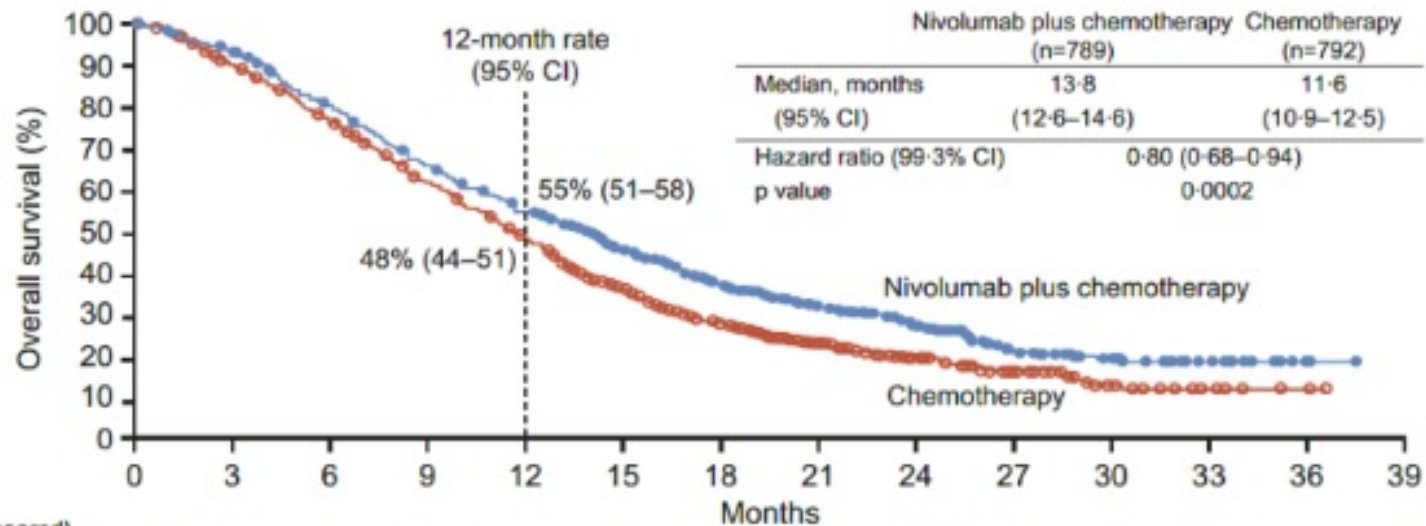
- Checkmate 649
- Chemo + nivo / ipi+nivo/ chemo (1:1:1)
- Adeno only
- Chemo = FOLFOX or CAPEOX
- ~800 pts per group
- Keynote 590
- No gastric pts
- Adeno (30%) and SCC (70%)
- 5FU + Cisplatin +/- Pembolizumab (1:1)
- ~375 pts per group

A PD-L1 CPS ≥ 5



Number at risk (censored)

C All randomised

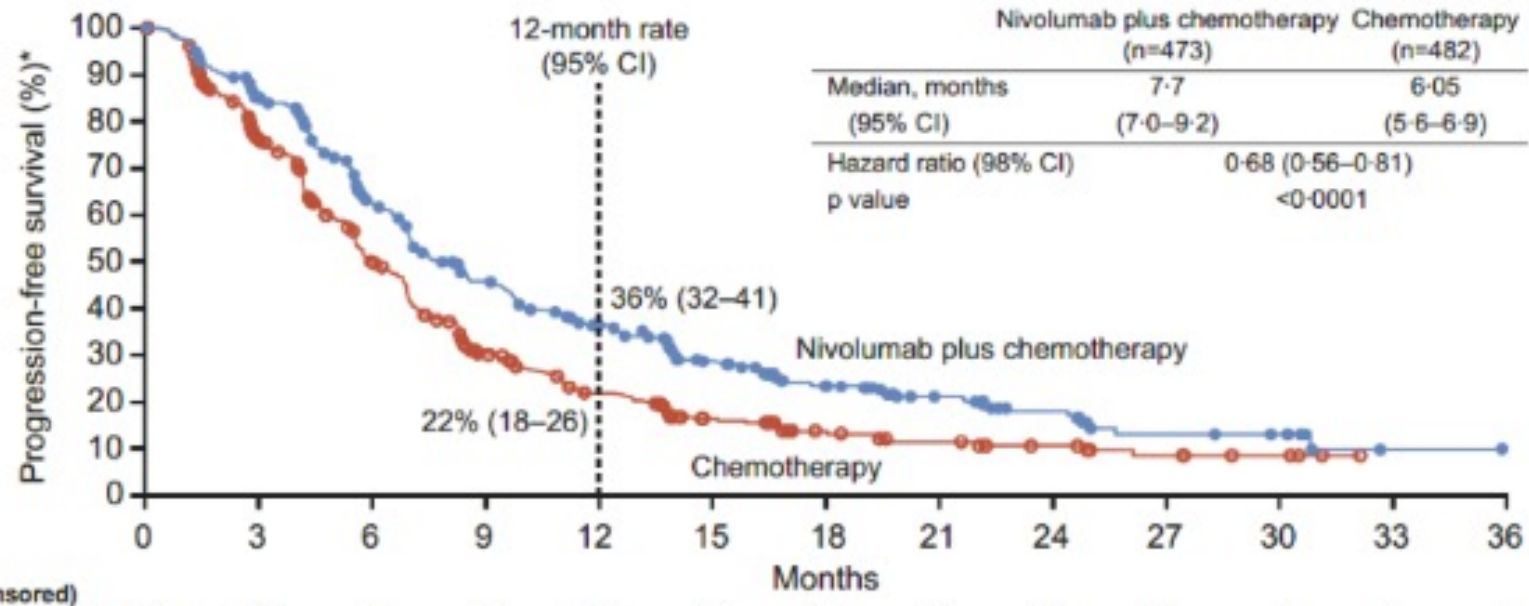


Number at risk (censored)

Nivolumab plus chemotherapy	789	731	621	506	420	308	226	147	100	49	34	14	2	0
	(0)	(4)	(13)	(16)	(20)	(63)	(90)	(141)	(167)	(201)	(212)	(231)	(243)	(245)
Chemotherapy	792	697	586	469	359	239	160	94	59	35	15	7	2	0
	(0)	(17)	(32)	(20)	(34)	(68)	(94)	(136)	(157)	(173)	(187)	(194)	(199)	(201)

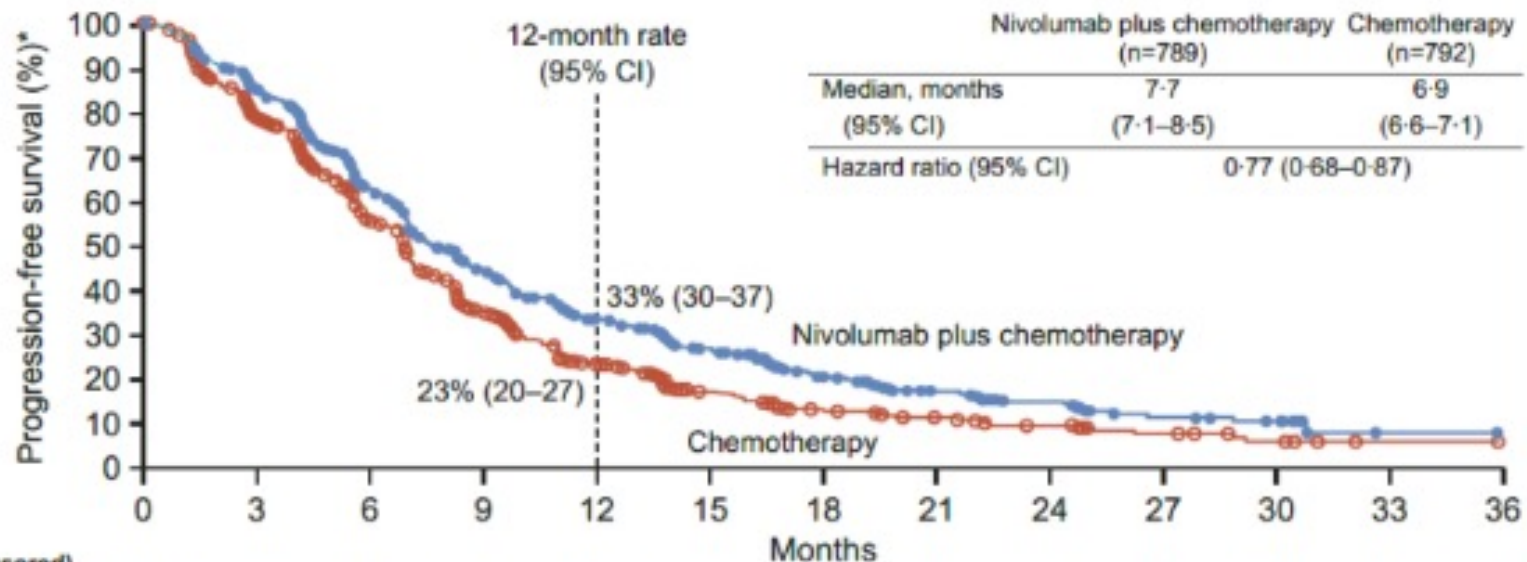
OS

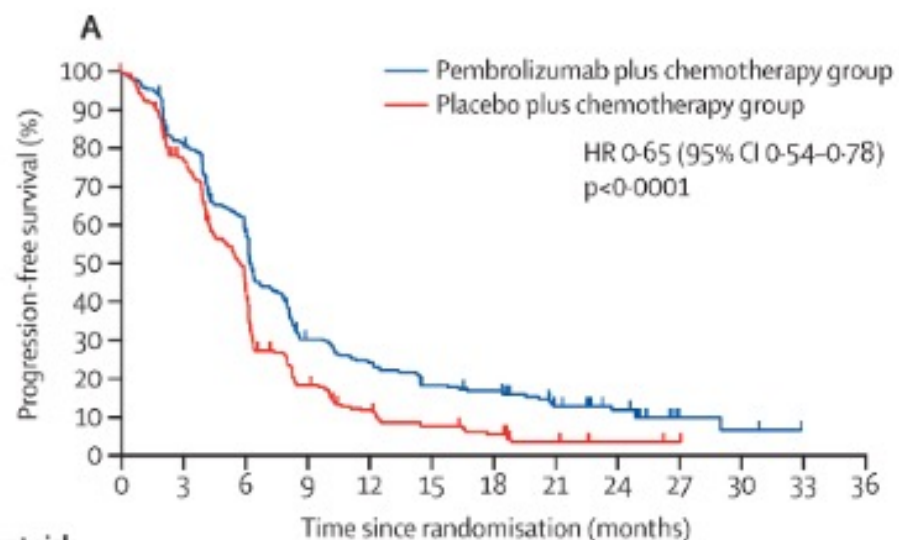
A PD-L1 CPS ≥ 5



PFS

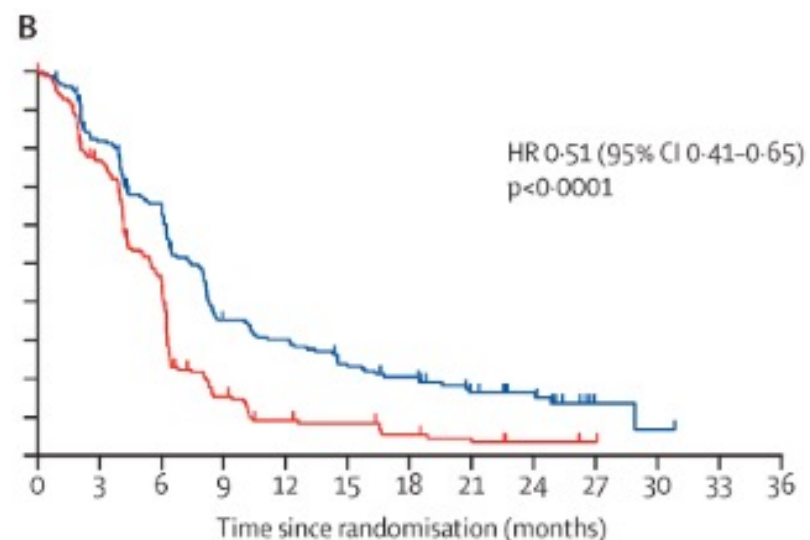
C All randomised



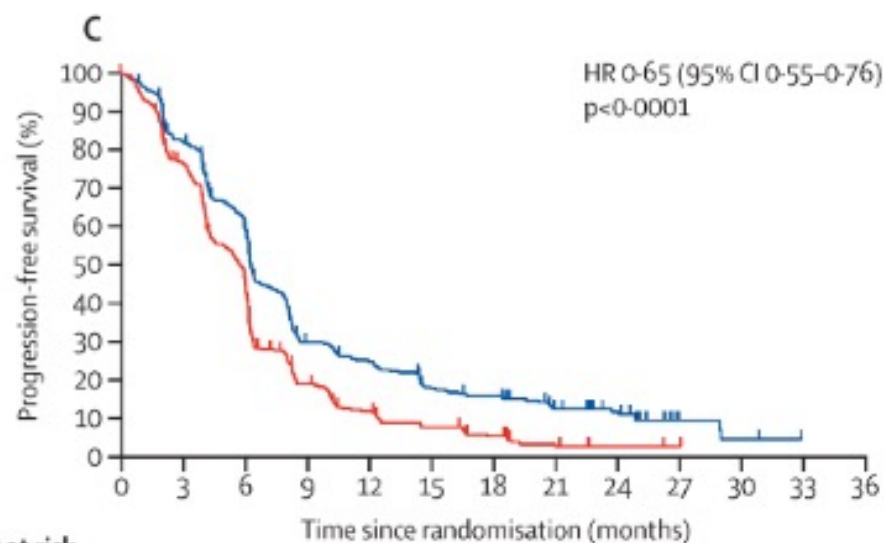


**Number at risk
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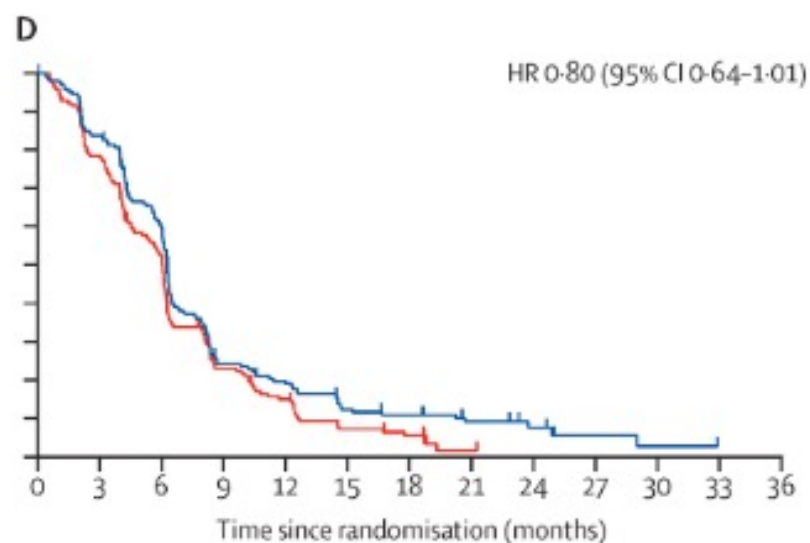
Pembrolizumab plus chemotherapy group	274	211	156	71	57	41	35	19	13	3	2	0	0
	(0)	(15)	(20)	(26)	(26)	(28)	(31)	(40)	(45)	(53)	(53)	(55)	(55)
Placebo plus chemotherapy group	274	205	127	45	26	16	11	5	2	1	0	0	0
	(0)	(9)	(11)	(16)	(20)	(21)	(22)	(25)	(28)	(29)	(30)	(30)	(30)



	186	143	109	56	48	36	29	17	12	2	1	0	0
	(0)	(11)	(17)	(21)	(21)	(23)	(25)	(32)	(37)	(45)	(45)	(46)	(46)
	197	145	85	26	14	12	7	5	2	1	0	0	0
	(0)	(7)	(9)	(14)	(16)	(17)	(18)	(19)	(21)	(22)	(23)	(23)	(23)



**Number at risk
(number censored)**



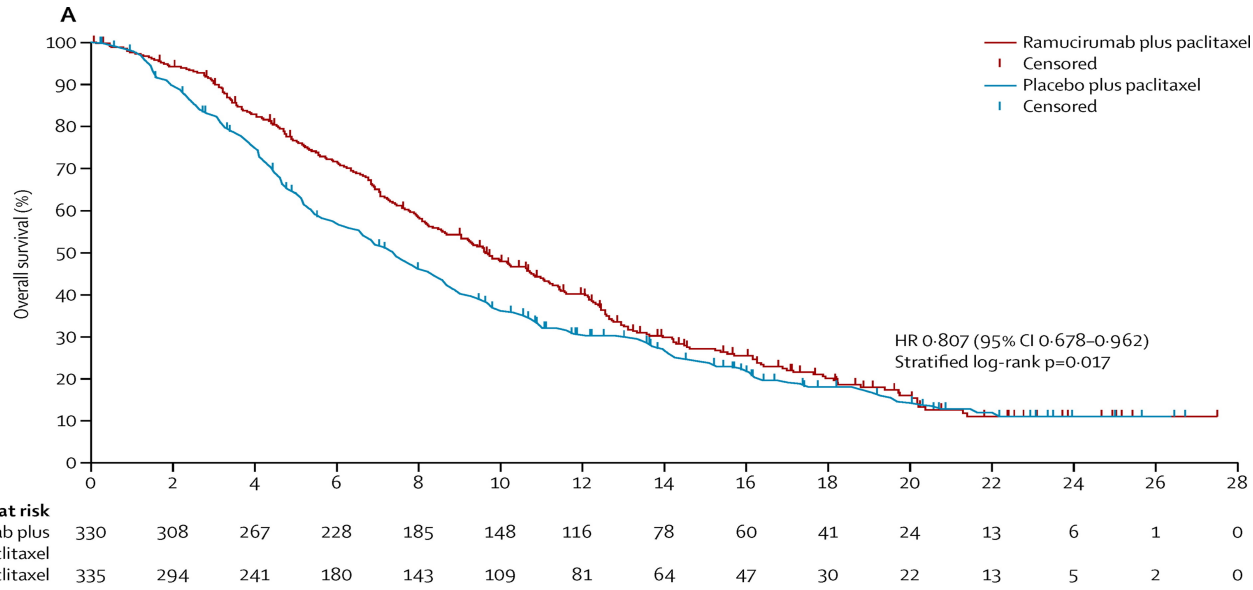
Toxicity of chemo/PD-1 Inhibition

	Nivolumab plus chemotherapy (n=782) *			Chemotherapy alone (n=767) *		
	Grade 3	Grade 4	Grade 5 †	Grade 3	Grade 4	Grade 5
All events	358 (46%)	104 (13%)	4 (1%)	285 (37%)	56 (7%)	0
Serious events	97 (12%)	34 (4%)	4 (1%)	63 (8%)	14 (2%)	0
Events leading to discontinuation	109 (14%)	23 (3%)	4 (1%)	58 (8%)	9 (1%)	0
Any-grade events in 10% or more of treated patients						
Diarrhoea	33 (4%)	2 (<1%)		23 (3%)	1 (<1%)	0
Fatigue	30 (4%)	0		16 (2%)	1 (<1%)	0
Anaemia	44 (6%)	3 (<1%)		20 (3%)	1 (<1%)	0
Neutropenia	87 (11%)	31 (4%)		70 (9%)	23 (3%)	0
Lipase increased	34 (4%)	11 (1%)		14 (2%)	2 (<1%)	0

Second line ERBB2/HER2-

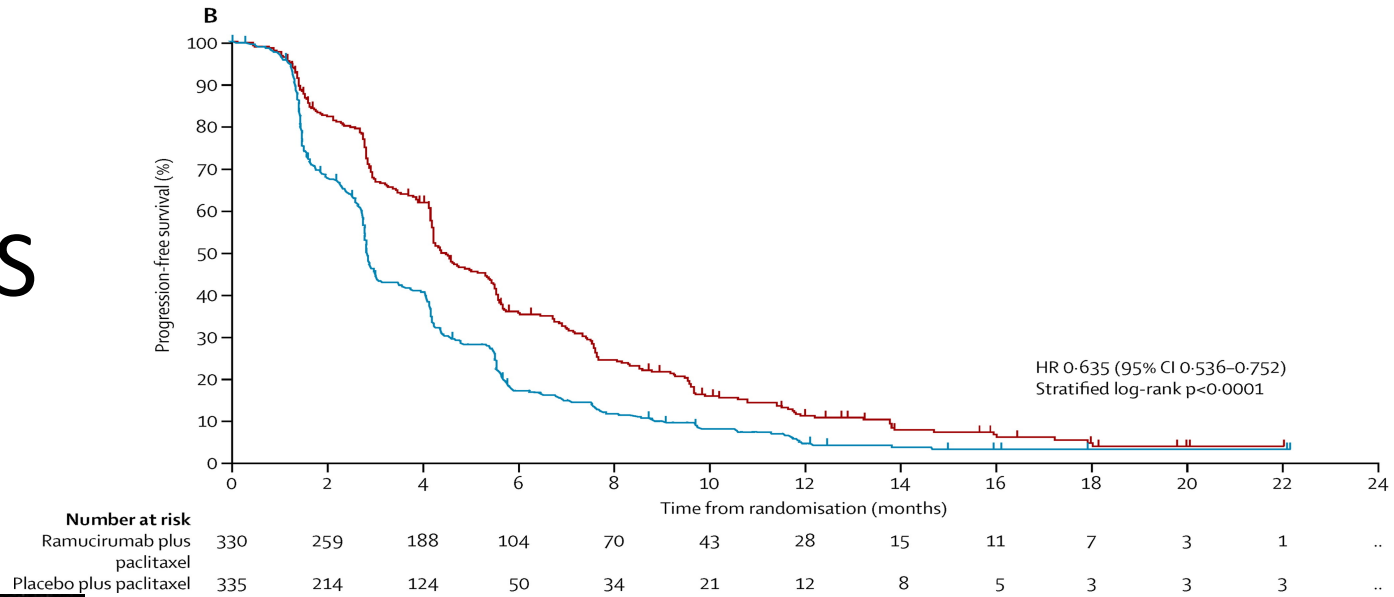
- Paclitaxel (pac) + Ramucirumab (ram) (RAINBOW)
- 665 pts, double blind randomized, 1:1 Pac+placebo vs Pac+Ram
- Previously treated pts 5FU + platinum +/- anthracycline
- Excluded: non-adeno, gastric perforation/fistula, thromboembolic events w/in 6 mo, uncontrolled HTN

OS



mOS: 9.6 mo v 7.4 mo
12 mo OS 40% v 30%

PFS



mPFS: 4.4 mo v 2.9 mo
6 mo PFS 36% v 17%



Toxicity Summary Pac/Ram

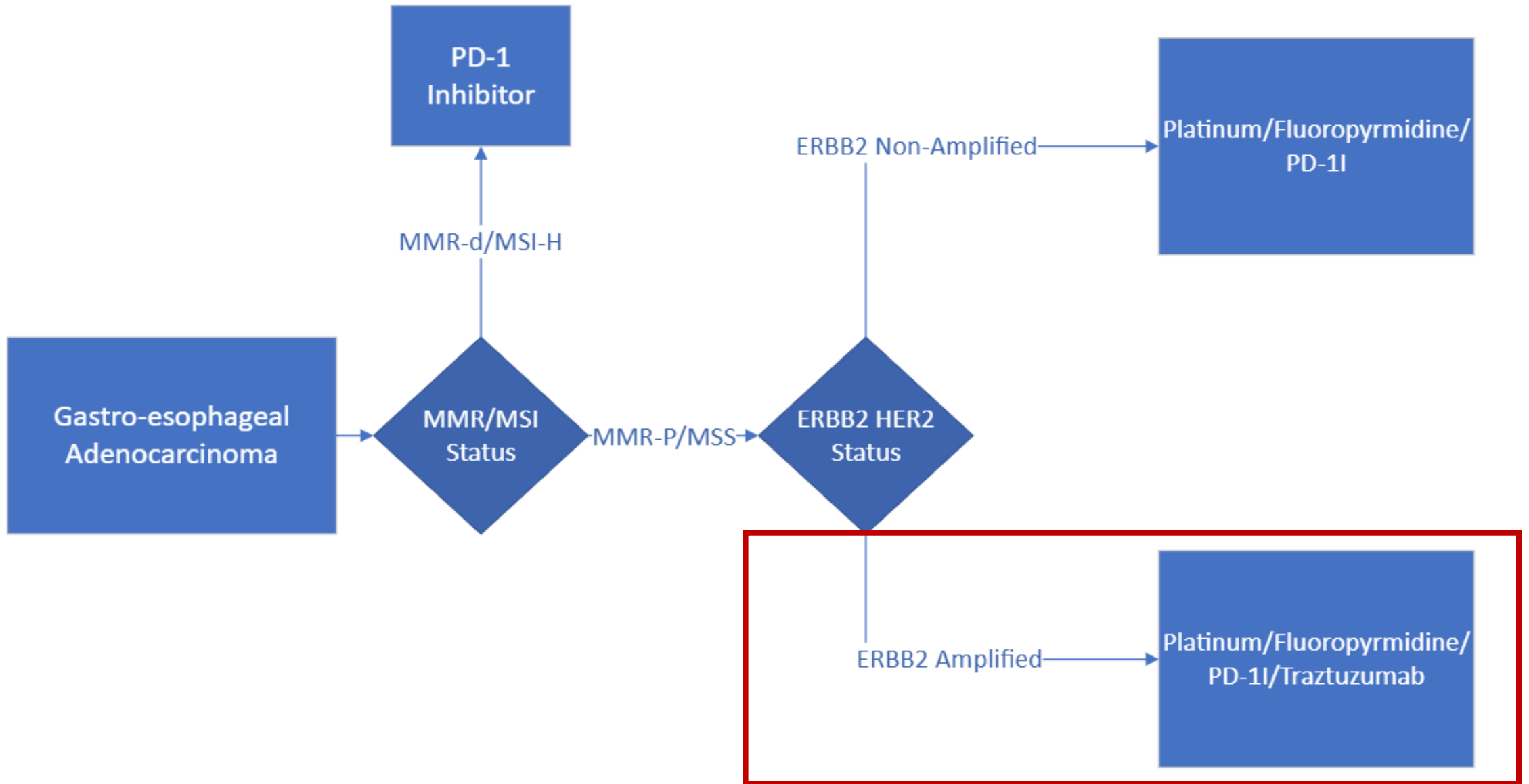
Gr 3 or higher toxicities

- neutropenia 41% v 19%
- HTN 14% v 2%
- Fatigue 12% v 5%
- Abd pain 6% v 3%
- Gastric perforation 4 events vs 1 event

After Second Line

- Irinotecan or FOLFIRI
- Trifluridine and tipiracil
- Other appropriate targeted therapies or clinical trials

Treatment algorithm for mGEA



ERBB2/HER2 amplified GEA

- ToGA Trial 2010 Lancet
- 600 pts 1:1 Chemo +/- trastuzumab
- 5FU (or Cape) + cisplatin
- ~80% Gastric 20% GEJ
- ~50% Asian ~30% White
- LVEF every 12 weeks

YJ Bang et al Lancet 2010

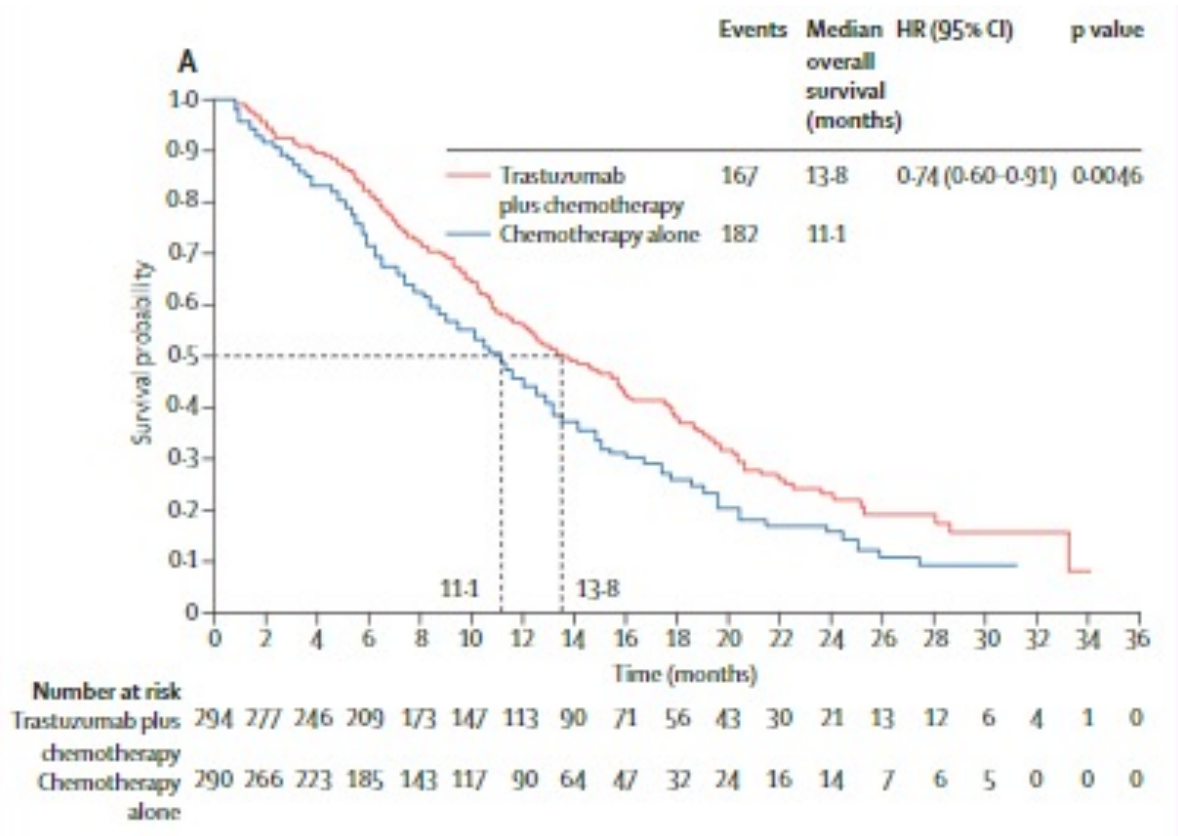
ToGA Responses

	Trastuzumab plus chemotherapy (n=294)	Chemotherapy alone (n=290)	Non-stratified effect size		Stratified effect size*		Odds ratio	p value
			Hazard ratio (95% CI)	p value	Hazard ratio (95% CI)	p value		
Progression-free survival (months)	6.7 (6-8)	5.5 (5-6)	0.71 (0.59-0.85)	0.0002	0.71 (0.59-0.86)	0.0004	--	--
Time to progression (months)	7.1 (6-8)	5.6 (5-6)	0.70 (0.58-0.85)	0.0003	0.69 (0.57-0.84)	0.0003	--	--
Duration of response (months)	6.9 (6-8)†	4.8 (4-6)‡	0.54 (0.40-0.73)	<0.0001	0.53 (0.39-0.73)	<0.0001	--	--
Tumour response								
Overall tumour response rate	139 (47%)	100 (35%)	--	--	--	--	1.70 (1.22-2.38)	0.00175
Complete response	16 (5%)	7 (2%)	--	--	--	--	2.33 (0.94-5.74)	0.05995
Partial response	123 (42%)	93 (32%)	--	--	--	--	1.52 (1.09-2.14)	0.01455
Stable disease	93 (32%)	101 (35%)	--	--	--	--	--	--
Progressive disease	35 (12%)	53 (18%)	--	--	--	--	--	--
Missing	27 (9%)	36 (12%)	--	--	--	--	--	--

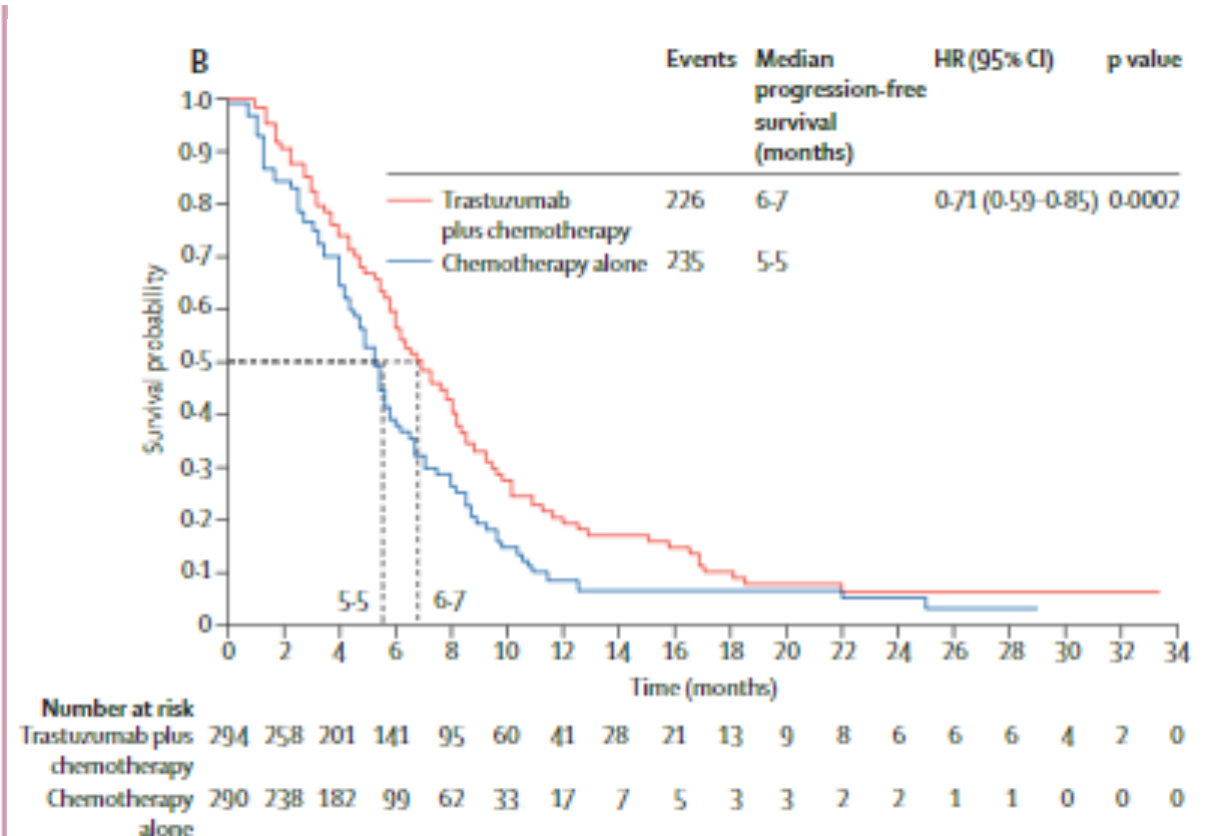
Data are median (95% CI) or number (%). *Stratified by extent of disease (local vs metastatic), primary tumour site (stomach vs gastro-oesophageal junction), measurability (measurable vs non-measurable), Eastern Cooperative Oncology Group performance status (0-1 vs 2), and fluoropyrimidine regimen (fluorouracil vs capecitabine). †n=139. ‡n=100. S_x² test.

Table 3: Secondary efficacy endpoints

ToGA Survival Curves



OS



PFS

Immunotherapy in HER2+ GEA

Keynote 811

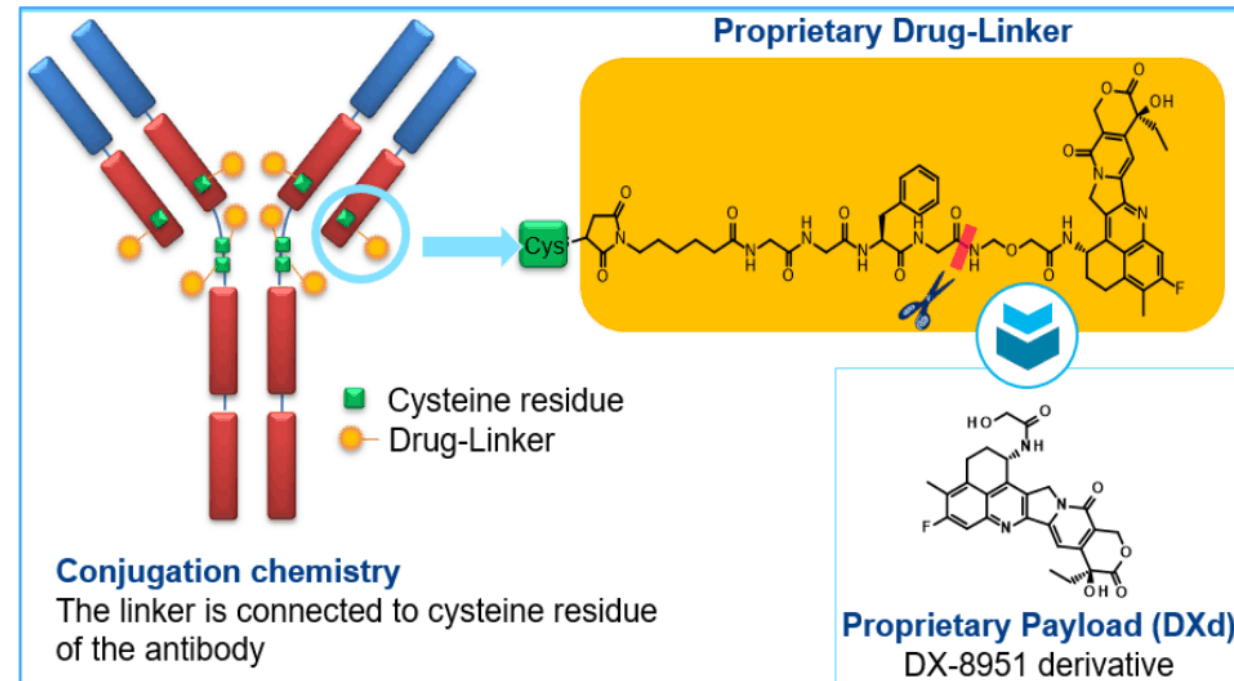
- 692 patients
- Chemo/trastuzumab +/- pembrolizumab
- Chemo = Cis/5FU or Cape/ox

Results (interim)

- ORR: 74 v 52%
 - CR 11 v 3%
 - Duration resp: 10.6 v 9.5
 - OS/PFS: NR

Second Line ERBB2/HER2 amplified

- DESTINY – gastric 01 study
- Trastuzumab deruxtecan (TD)
6.4mg/kg
- 187 pts, TD vs chemo 2:1
- ORR 51% v 14%



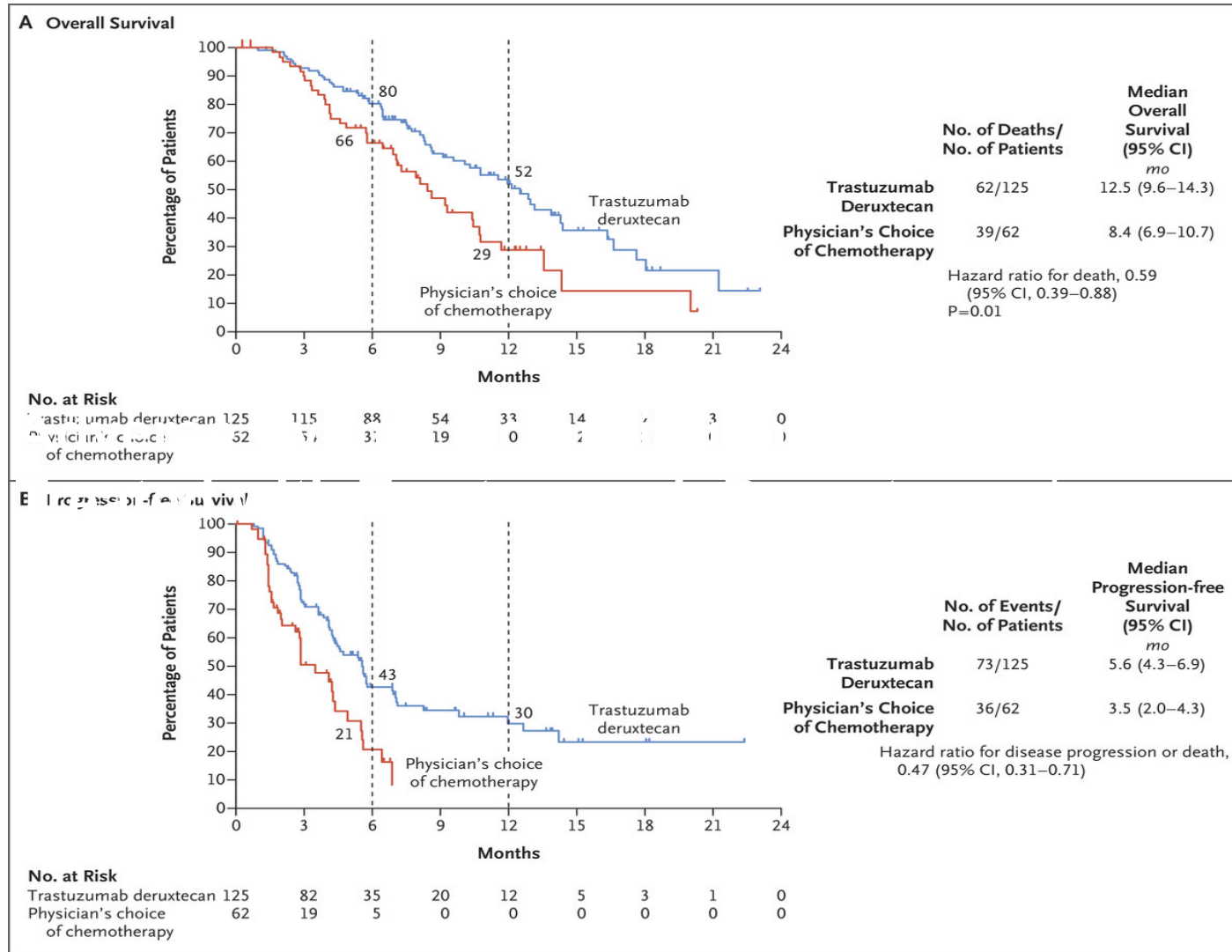
Website: ADC Review: www.adcreview.com/trastuzumab-deruxtecan-drug-description/

Summary of Efficacy

Table 2. Summary of Efficacy.*

Variable	Trastuzumab Deruxtecan (N = 119)	Physician's Choice of Chemotherapy (N = 56)
Objective response†		
No. of patients	61	8
Percent of patients (95% CI)	51 (42–61)	14 (6–26)
Best response — no. (%)		
Complete response	11 (9)	0
Partial response	50 (42)	8 (14)
Stable disease	42 (35)	27 (48)
Progressive disease	14 (12)	17 (30)
Could not be evaluated	2 (2)	4 (7)
Confirmed objective response‡		
No. of patients	51	7
Percent of patients (95% CI)	43 (34–52)	12 (5–24)
Confirmed best response — no. (%)		
Complete response	10 (8)	0
Partial response	41 (34)	7 (12)
Stable disease	51 (43)	28 (50)
Progressive disease	14 (12)	17 (30)
Could not be evaluated	3 (3)	4 (7)
Confirmed disease control§		
No. of patients	102	35
Percent of patients (95% CI)	86 (78–91)	62 (49–75)

Overall Survival and Progression-free Survival



mOS: 12.5 v 8.4
12m OS: 52% v 29%

mPFS: 5.6 v 3.5
12m PFS 30% v 0%

Common Adverse Events

Table 3. Adverse Events Occurring in at Least 20% of the Patients Treated with Trastuzumab Deruxtecan.*

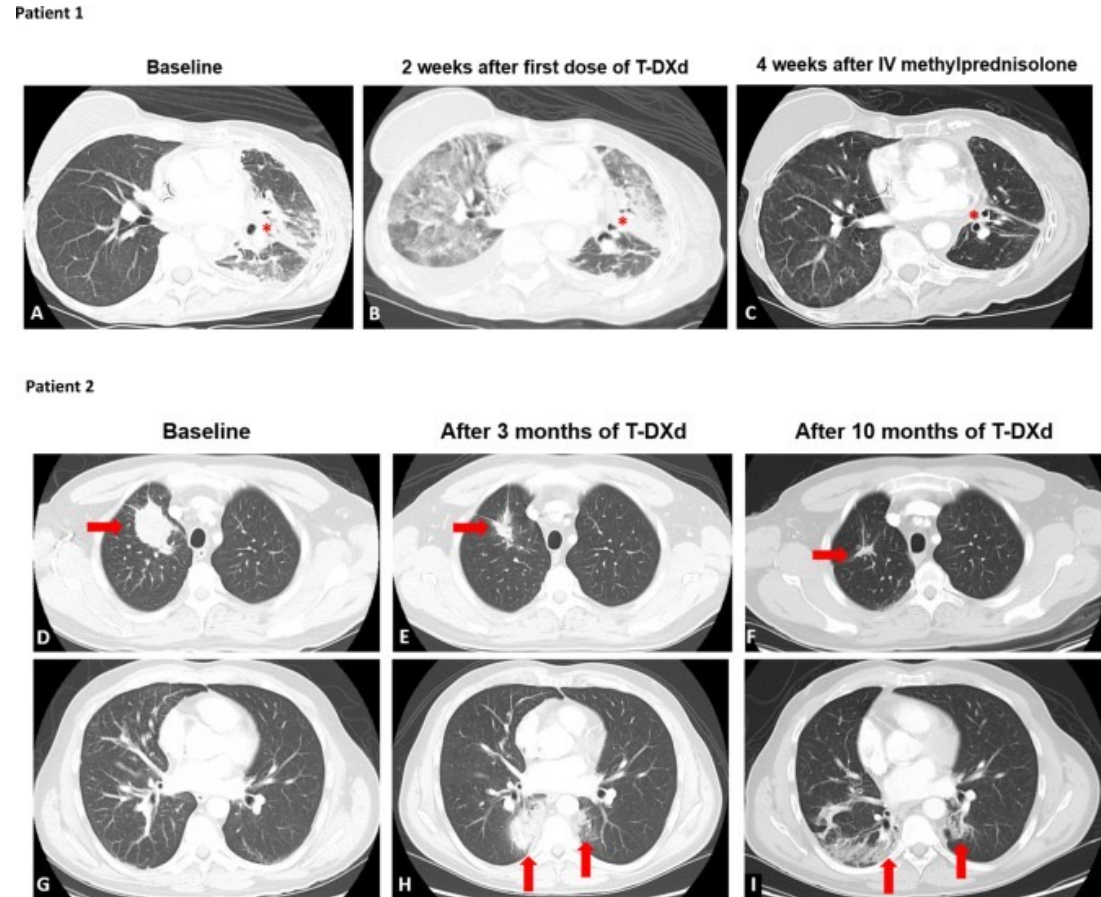
Preferred Term	Trastuzumab Deruxtecan (N=125)			Physician's Choice of Chemotherapy (N=62)		
	Any Grade	Grade 3	Grade 4	Any Grade	Grade 3	Grade 4
	<i>number of patients (percent)</i>					
Nausea	79 (63)	6 (5)	0	29 (47)	1 (2)	0
Neutrophil count decreased [†]	79 (63)	48 (38)	16 (13)	22 (35)	10 (16)	5 (8)
Decreased appetite	75 (60)	21 (17)	0	28 (45)	8 (13)	0
Anemia [‡]	72 (58)	47 (38)	0	19 (31)	13 (21)	1 (2)
Platelet count decreased [§]	49 (39)	12 (10)	2 (2)	4 (6)	1 (2)	1 (2)
White-cell count decreased [¶]	47 (38)	26 (21)	0	22 (35)	5 (8)	2 (3)
Malaise	43 (34)	1 (1)	0	10 (16)	0	0
Diarrhea	40 (32)	3 (2)	0	20 (32)	1 (2)	0
Vomiting	33 (26)	0	0	5 (8)	0	0
Constipation	30 (24)	0	0	14 (23)	0	0
Pyrexia	30 (24)	0	0	10 (16)	0	0
Alopecia	28 (22)	0	0	9 (15)	0	0
Fatigue	27 (22)	9 (7)	0	15 (24)	2 (3)	0
Lymphocyte count decreased	27 (22)	8 (6)	6 (5)	2 (3)	0	1 (2)

Uncommon AEs

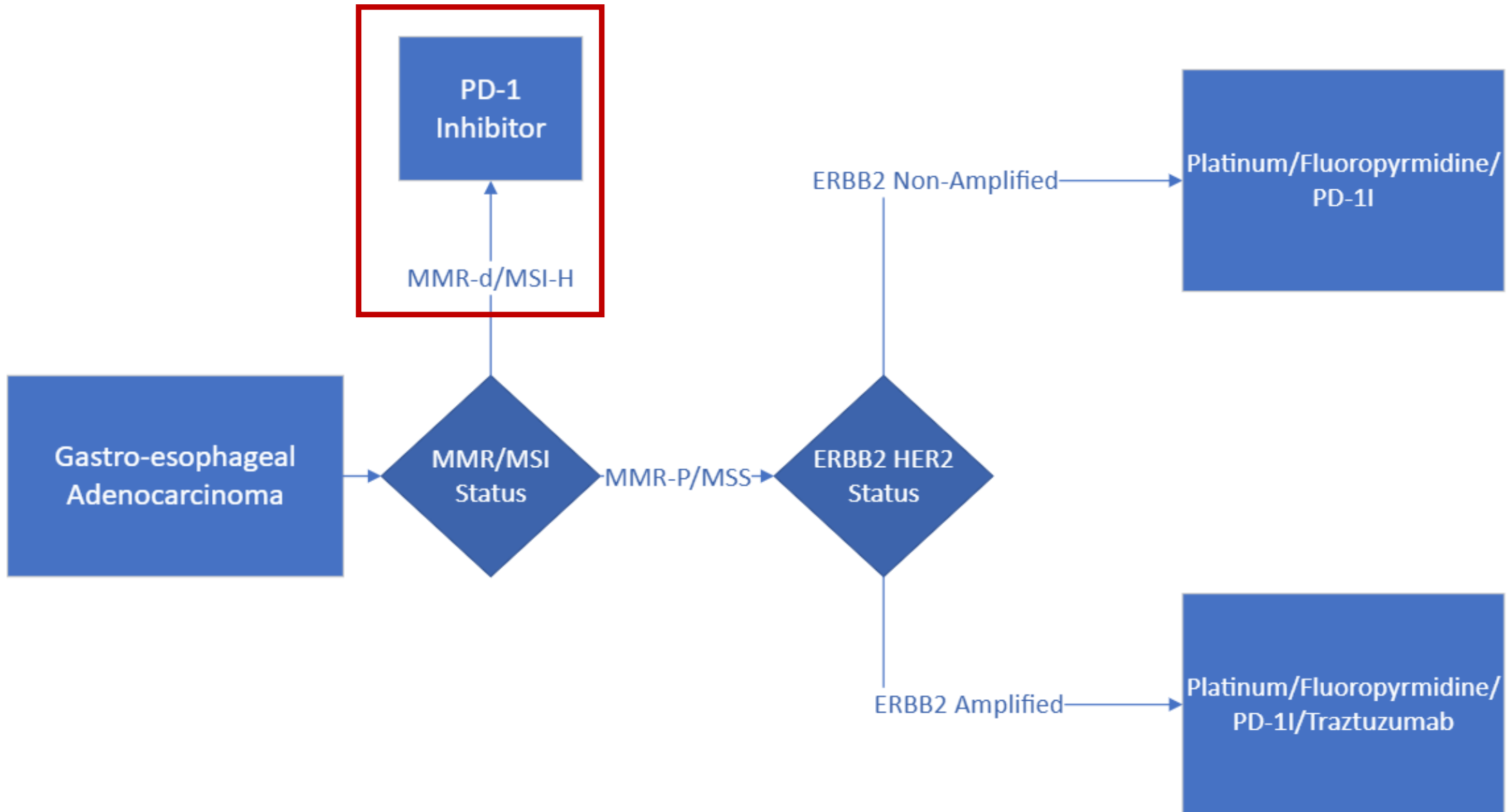
- Febrile Neutropenia 6 events v 2
- 10% rate of pneumonitis/ILD
 - Median onset 84 days
 - 8/12 cases resolved within 57 days
- No changes in LVEF seen

T-DXd related ILD/pneumonitis

- Early diagnosis
 - Patient education (cough, DOE)
 - Checking SpO2
 - H & P q 4-6 weeks
 - CT q 9-12 weeks as allowed by payor
- Early treatment
 - Hold T-DXd
 - Gr1: hold
 - Gr2: D/C and PO steroids w/ long taper
 - Gr3/4: D/C and hospitalization



Treatment algorithm for mGEA



MMR-D/MSI-H GEA

	KN059 (3L+)	KN061 (2L)		KN062 (1L) ^a	
	Pembro N = 259	Pembro N = 296	Paclitaxel N = 296	Pembro N = 256	Cisplatin+5- FU/cape N = 250
MSI-H, n (%)	7 (3)	15 (5)	12 (4)	14 (5)	19 (8)
mOS, mo (95% CI)	NR (1.1- NR)	NR (5.6- NR)	8.1 (2.0- 16.7)	NR (10.7- NR)	8.5 (5.3-20.8)
mPFS, mo (95% CI)	NR (1.1- NR)	17.8 (2.7- NR)	3.5 (2.0- 9.8)	11.2 (1.5- NR)	6.6 (4.4-8.3)
ORR, %	4 (57.1)	7 (46.7)	2 (16.7)	8 (57.1)	7 (36.8)

m, median, NR, not reached; ^aOnly pembro monotherapy & chemo alone arms included.

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Future Options

- SPOTLIGHT trial
- CLDN18.2 + ($\geq 75\%$ tumor cells moderate+ staining)
- 565 pts 1:1 mFOLFOX +/- zolbetuximab
- mPFS: 10.6 v 8.7 months
- Overall SAE similar in groups but Vomiting 64.5% v 34.5%, Anorexia 47% v 34%
- Other combinations (esp immunotherapy combos) being studied

Thank You