Ask the Investigators: Applying Emerging Clinical Research to the Care of Patients with Gastroesophageal Cancers

A Satellite Educational Symposium Held in Conjunction with the 2021 AACR Virtual Annual Meeting

> Monday, April 12, 2021 6:30 PM – 7:30 PM ET

Faculty Joseph Chao, MD Yelena Y Janjigian, MD

> Moderator Neil Love, MD



Faculty



Joseph Chao, MD Associate Clinical Professor Department of Medical Oncology and Therapeutics Research GI Medical Oncology Section City of Hope Comprehensive Cancer Center Duarte, California



Yelena Y Janjigian, MD Associate Attending Physician Associate Professor, Weill Cornell Medical College Chief, Gastrointestinal Oncology Service Memorial Sloan Kettering Cancer Center New York, New York



Commercial Support

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Dr Love — Disclosures

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Dr Chao — Disclosures

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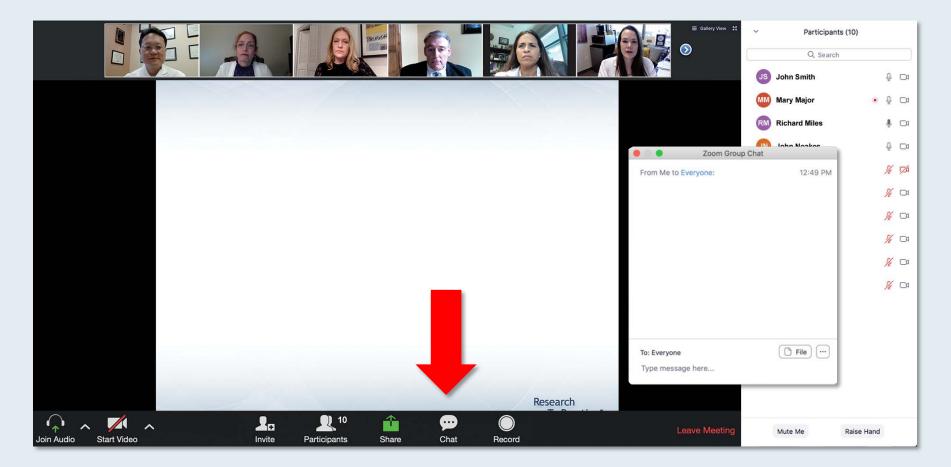


Dr Janjigian — Disclosures

Consulting Agreements	AstraZeneca Pharmaceuticals LP, Basilea Pharmaceutica Ltd, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Daiichi Sankyo Inc, Imugene, Lilly, Merck, Merck Serono, Pfizer Inc, Rgenix, Zymeworks
Contracted Research	Bayer HealthCare Pharmaceuticals, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Genentech, a member of the Roche Group, Lilly, Merck, Rgenix
Ownership Interest (Stock Options)	Rgenix



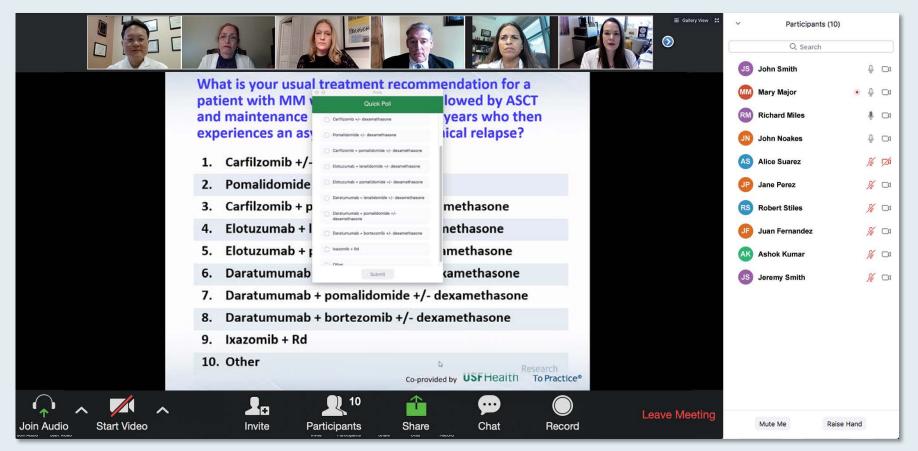
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Familiarizing Yourself with the Zoom Interface How to answer poll questions

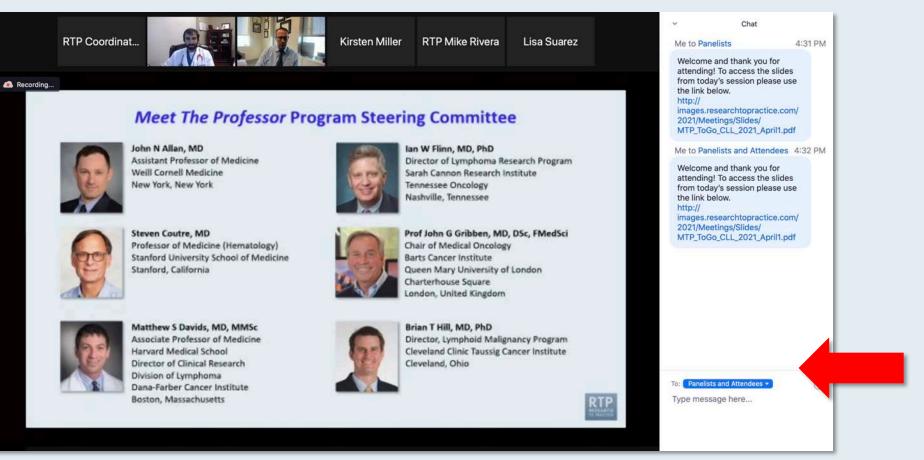


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Familiarizing Yourself with the Zoom Interface

Expand chat submission box



Drag the white line above the submission box up to create more space for your message.



Familiarizing Yourself with the Zoom Interface

Increase chat font size



Press Command (for Mac) or Control (for PC) and the + symbol. You may do this as many times as you need for readability.



ONCOLOGY TODAY WITH DR NEIL LOVE Key Recent Data Sets in Gastrointestinal Cancers



DR PHILIP A PHILIP KARMANOS CANCER INSTITUTE

WAYNE STATE UNIVERSITY







Dr Philip A Philip Key Recent Data Sets Oncology Today with Dr Neil Love —

(15) (30)

Meet The Professor Management of Chronic Lymphocytic Leukemia

Thursday, April 15, 2021 5:00 PM – 6:00 PM ET

> Faculty John N Allan, MD

Moderator Neil Love, MD



Dissecting the Decision: Investigator Perspectives on Key Issues in the Management of Common Cancers

A Complimentary NCPD Live Webinar Series Hosted in Conjunction with the 46th Annual ONS Congress

Breast Cancer Tuesday, April 20, 2021 8:30 AM – 10:00 AM ET

Non-Small Cell Lung Cancer Tuesday, April 20, 2021 5:00 PM – 6:30 PM ET

Acute Myeloid Leukemia Wednesday, April 21, 2021 12:00 PM – 1:00 PM ET

Colorectal and Gastroesophageal Cancers Wednesday, April 21, 2021 4:45 PM – 5:45 PM ET

Prostate Cancer Thursday, April 22, 2021 8:30 AM – 10:00 AM ET

Hodgkin and Non-Hodgkin Lymphomas Thursday, April 22, 2021 5:00 PM – 6:30 PM ET Multiple Myeloma Tuesday, April 27, 2021 8:30 AM – 10:00 AM ET

Gynecologic Cancers Tuesday, April 27, 2021 5:00 PM – 6:30 PM ET

Urothelial Bladder Carcinoma Wednesday, April 28, 2021 12:00 PM – 1:00 PM ET

Chronic Lymphocytic Lymphoma Thursday, April 29, 2021 8:30 AM – 10:00 AM ET

Chimeric Antigen Receptor T-Cell Therapy Thursday, April 29, 2021 5:00 PM – 6:30 PM ET



Ask the Expert: Clinical Investigators Provide Perspectives on the Management of Renal Cell Carcinoma

In Partnership with Project Echo® and Florida Cancer Specialists

Tuesday, May 4, 2021 5:00 PM – 6:00 PM ET

Faculty Chung-Han Lee, MD, PhD

> Moderator Neil Love, MD



Thank you for joining us!

CME credit information will be emailed to each participant within 3 business days.



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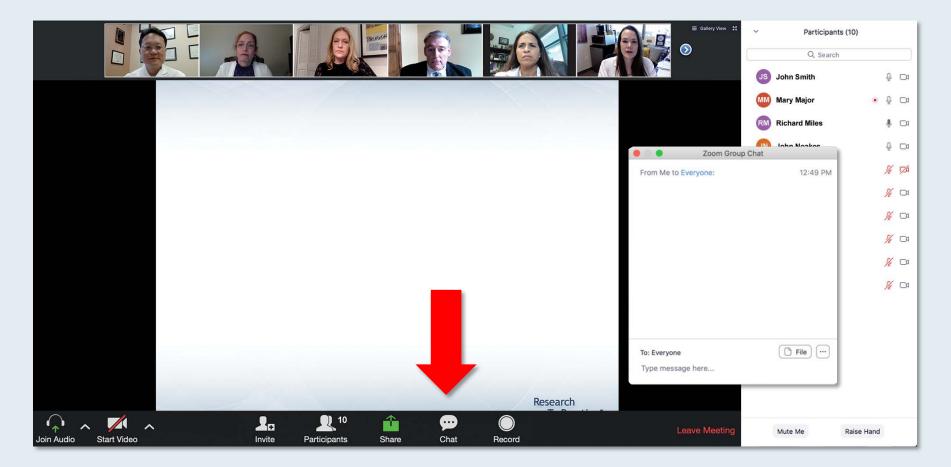
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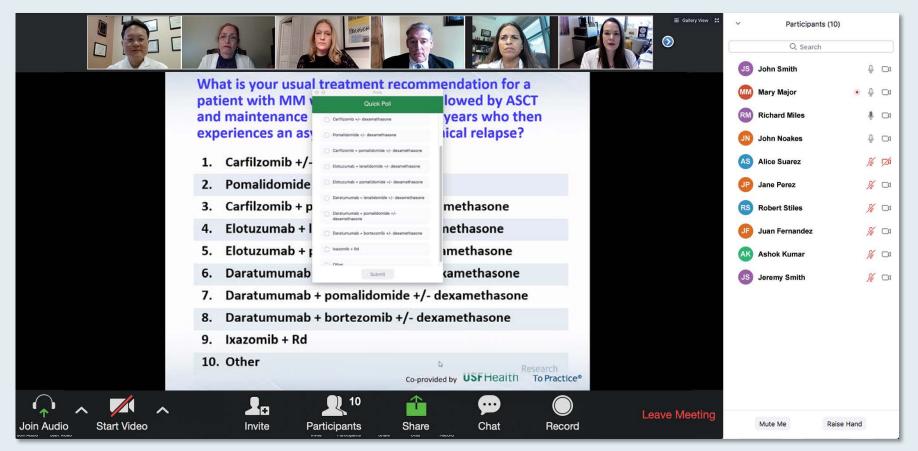
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Daniel Catenacci, MD

Associate Professor, Department of Medicine, Section of Hematology and Oncology Director, Interdisciplinary Gastrointestinal Oncology Program Assistant Director, Translational Research, Comprehensive Cancer Center The University of Chicago Medical Center and Biological Sciences Chicago, Illinois



Agenda

Cases from the Practice of Dr Catenacci

Case 1: A 54-year-old man with MSS metastatic GEJ adenocarcinoma – PD-L1 CPS 20, HER2-negative

Case 2: A 56-year-old man with localized adenocarcinoma of the esophagus – MSS, PD-L1 CPS 10

Case 3: A 68-year-old man with relapsed MSS adenocarcinoma of the esophagus – HER2-positive, PD-L1 CPS 0

Case 4: A 35-year-old woman with relapsed metastatic gastric cancer and disease progression on T-DXd

Case 5: A 68-year-old man with newly diagnosed metastatic GEJ cancer with an FGFR2b mutation

Case 6: A 66-year-old woman with metastatic squamous cell carcinoma of the esophagus – PD-L1 CPS 50

Case 7: A 64-year-old man with GEJ cancer and COVID-19 vaccine-associated imaging issues



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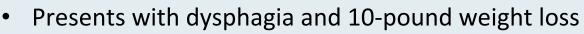
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Case Presentation – A 54-year-old man with microsatellite-stable metastatic gastroesophageal junction adenocarcinoma – PD-L1 CPS 20, HER2-negative



- Imaging shows liver lesions and EGD reveals mass at the GEJ
- GEJ and liver biopsy results consistent with adenocarcinoma
- FOLFOX + pembrolizumab (400mg q6weeks) initiated
- Restaging CT demonstrates stable disease
- Therapy continued with 5-FU and pembrolizumab maintenance
 - Progressive disease at 8 months
- Patient switched to 2nd line FOLFIRI + ramucirumab

Questions

- Do you use nivolumab or pembrolizumab for GEJ adenocarcinoma? Do you prefer cisplatin or oxaliplatin as a backbone chemotherapy?
- What dosing do you use for pembrolizumab when administering FOLFOX backbone chemotherapy?



Dr Daniel Catenacci



FDA Approves Pembrolizumab in Combination with Chemotherapy for Esophageal or GEJ Carcinoma Press Release – March 22, 2021

"On March 22, 2021, the Food and Drug Administration approved pembrolizumab in combination with platinum and fluoropyrimidine-based chemotherapy for patients with metastatic or locally advanced esophageal or gastroesophageal (GEJ) (tumors with epicenter 1 to 5 centimeters above the gastroesophageal junction) carcinoma who are not candidates for surgical resection or definitive chemoradiation.

Efficacy was evaluated in KEYNOTE-590 (NCT03189719), a multicenter, randomized, placebocontrolled trial that enrolled 749 patients with metastatic or locally advanced esophageal or gastroesophageal junction carcinoma who were not candidates for surgical resection or definitive chemoradiation.

The recommended pembrolizumab dose for esophageal cancer is 200 mg every 3 weeks or 400 mg every 6 weeks."

https://www.fda.gov/drugs/resources-information-approved-drugs/fda-approves-pembrolizumab-esophageal-or-gejcarcinoma?utm_medium=email&utm_source=govdelivery

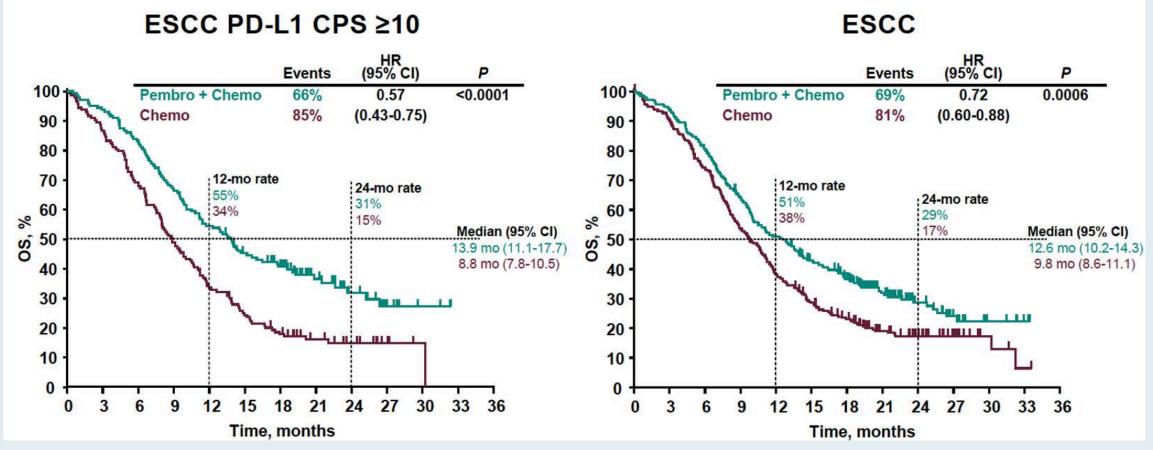


Pembrolizumab plus Chemotherapy versus Chemotherapy as First-Line Therapy in Patients with Advanced Esophageal Cancer: The Phase 3 KEYNOTE-590 Study

Kato K et al. ESMO 2020;Abstract LBA8_PR.



KEYNOTE-590: Overall Survival

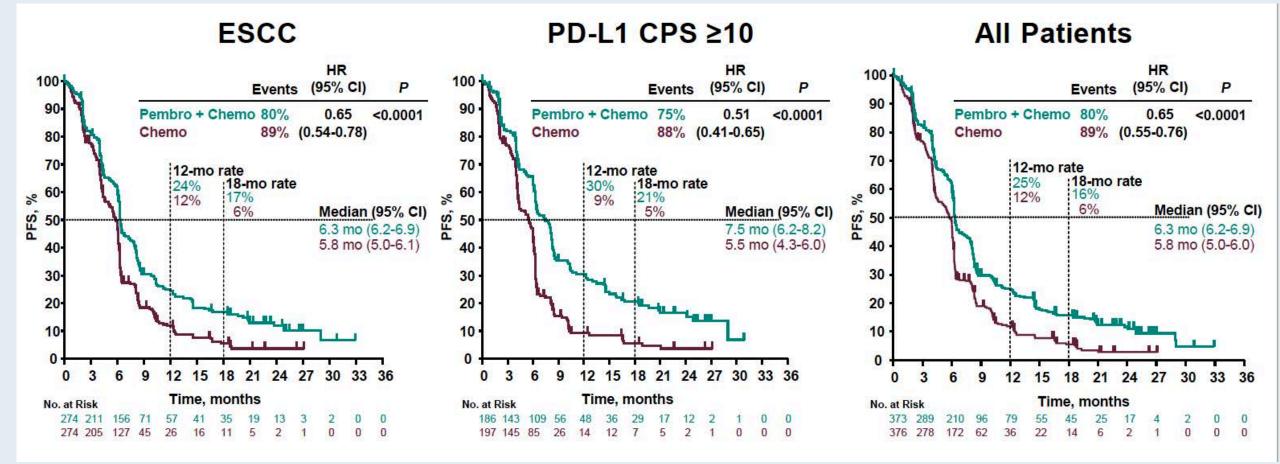


Median OS	Pembro + chemo	Chemo	HR (<i>p</i> -value)
All patients	12.4 mo	9.8 mo	0.73 (<0.0001)
PD-L1 CPS ≥10	13.5 mo	9.4 mo	0.62 (<0.0001)



Kato K et al. ESMO 2020; Abstract LBA8_PR.

KEYNOTE-590: Progression-Free Survival





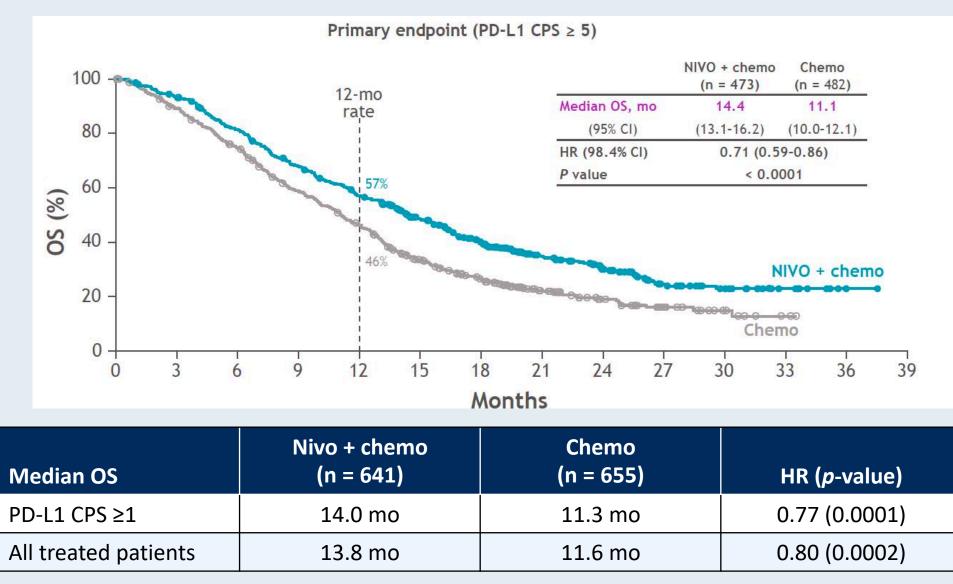
Nivolumab (Nivo) plus Chemotherapy (Chemo)

versus Chemo as First-Line (1L) Treatment for Advanced Gastric Cancer/Gastroesophageal Junction Cancer (GC/GEJC)/Esophageal Adenocarcinoma (EAC): First Results of the CheckMate 649 Study

Moehler M et al. ESMO 2020;Abstract LBA6.



CheckMate 649: Overall Survival





Moehler M et al. ESMO 2020; Abstract LBA6.

KEY DIFFERENCES: KEYNOTE-062 VS. CheckMate 649

	KN062	СМ 649
Population	CPS1, Gastric/GEJ adenocarcinoma	All comers, EAC/Gastric/GEJ adenocarcinoma
Chemo backbone	FP/XP	FOLFOX/CAPOX
Ν	~250/group	~790/group
Minimum follow- up	22 months	12 months

	KN062 (based on screened patients with PD-L1 status)	KN062 All CPS1	CM649 (all comers)
CPS1	72%	100%	82%
CPS 5	29%	61%	60%
CPS10	17%	37%	



Memorial Sloan Kettering Cancer Center

Courtesy of Yelena Y Janjigian, MD

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Case Presentation – A 56-year-old man with localized adenocarcinoma of the esophagus – MSS, PD-L1 CPS 10



Dr Daniel Catenacci

- Presents with dysphagia and weight loss
 - EGD demonstrated large fungating mass in the distal esophagus not involving the GEJ
- Neoadjuvant carboplatin/paclitaxel initiated \rightarrow surgery
- Patient then treated with adjuvant nivolumab x 6 months
 - Development of autoimmune dermatitis and hypothyroidism \rightarrow treatment discontinued
- Patient continues on surveillance \rightarrow NED

Questions

- Would you consider adjuvant nivolumab in this case?
- Would the PD-L1 score affect your decision (what if the PD-L1 CPS was 0)?



Regulatory and reimbursement issues aside, in which line of therapy if any would you generally recommend an anti-PD-1/PD-L1 antibody (with or without chemotherapy) for a 65-year-old patient with metastatic HER2-negative, <u>MSS adenocarcinoma</u> of the GEJ with a <u>PD-L1 CPS of 5%</u>?

- 1. First line
- 2. Second line
- 3. Third line
- 4. Beyond third line
- 5. I would not recommend an anti-PD-1/PD-L1 antibody



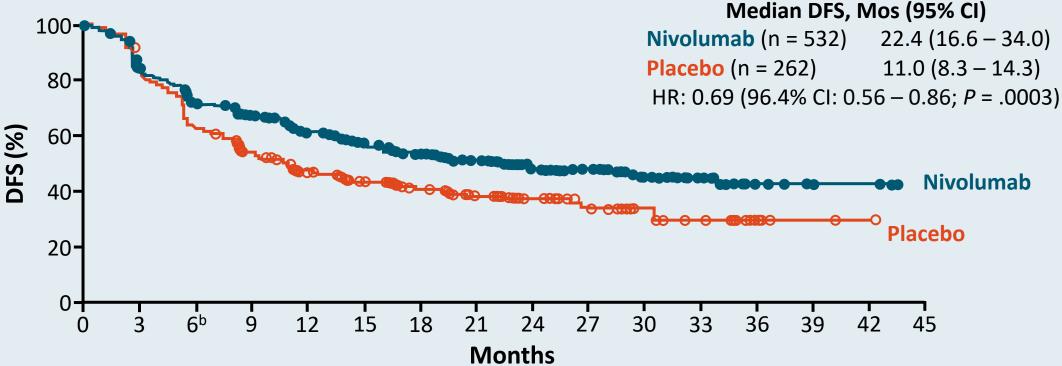
Adjuvant Nivolumab in Resected Esophageal or Gastroesophageal Junction Cancer (EC/GEJC) Following Neoadjuvant Chemoradiation Therapy (CRT): First Results of the CheckMate 577 Study

Kelly RJ et al ESMO 2020;Abstract LBA9_PR



CheckMate 577: Adjuvant Nivolumab After Neoadjuvant CRT/Resection for Esophageal/GEJ Cancer

 Randomized phase III trial of adjuvant nivolumab vs placebo following neoadjuvant CRT + surgical resection* for pts with stage II/III esophageal/GEJ adenocarcinoma/SCC (N = 794)



DFS (Primary Endpoint)

*Residual pathologic disease \geq ypT1 or \geq ypN1.

Kelly RJ et al. ESMO 2020; Abstract LBA9_PR.



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Case Presentation – A 68-year-old man with relapsed MSS adenocarcinoma of the esophagus – HER2-positive, PD-L1 CPS 0



Dr Daniel Catenacci

- Presents with dysphagia and weight loss
 - EGD reveals distal esophageal adenocarcinoma
 - No evidence of metastatic disease
- Neoadjuvant carboplatin/paclitaxel \rightarrow surgery
- Restaging CT reveals liver lesions
- First-line FOLFOX plus trastuzumab initiated \rightarrow liver and lung metastases 9 months later
- Patient switched to 2^{nd} line FOLFIRI + ramucirumab \rightarrow disease progression 15 months later
- Trastuzumab deruxtecan (T-DXd) initiated → response but discontinued after 6 months due to pneumonitis
- Patient started on 4th line T-DM1 with PD \rightarrow patient enrolled in hospice

Questions

- Do you use anti-HER2 therapy perioperatively?
- Do you assess HER2 status at each progression time point to determine optimal therapy options?

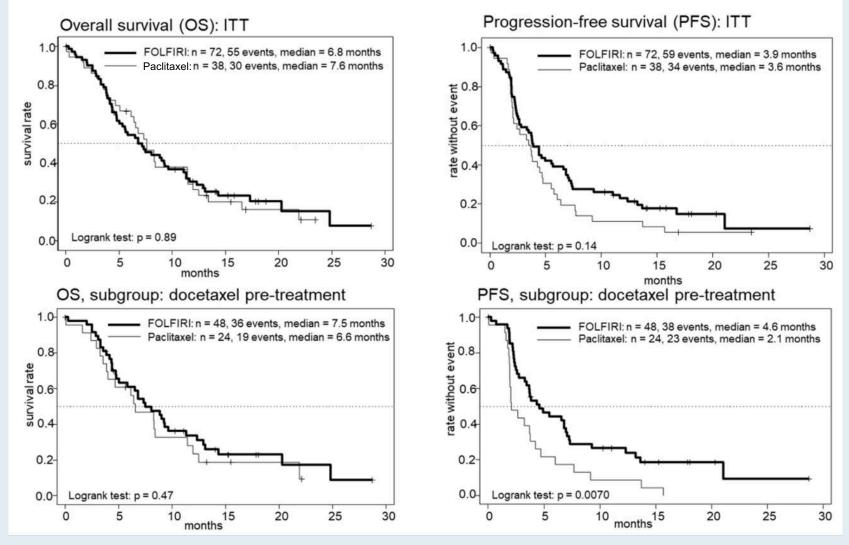


What would you currently recommend as second-line therapy for a patient with metastatic <u>HER2-positive</u>, MSS adenocarcinoma of the GEJ who has experienced disease progression on first-line <u>FOLFOX/trastuzumab</u>?

- 1. Ramucirumab
- 2. Ramucirumab/paclitaxel
- 3. Continue trastuzumab and switch chemotherapy
- 4. Test for PD-L1 CPS and administer pembrolizumab if $\geq 1\%$
- 5. Test for PD-L1 CPS and administer pembrolizumab if \geq 5%
- 6. Anti-PD-1/PD-L1 antibody
- 7. Trastuzumab deruxtecan
- 8. Other



Phase II RAMIRIS Trial of Second-Line Ramucirumab plus FOLFIRI – Patients with Advanced or Metastatic Gastroesophageal Adenocarcinoma with or without Prior Docetaxel





Lorenzen S et al. ASCO 2020; Abstract 4514.

Pivotal Randomized Phase II and III Trials of HER2-Targeted Agents for HER2-Positive Advanced Gastric or GEJ Cancer

Trial	Agent	Line of therapy	Result for primary endpoint
ToGA	Trastuzumab	First	Positive
LOGiC	Lapatinib	First	Negative
JACOB	Pertuzumab	First	Negative
T-ACT	Trastuzumab	Second	Negative
ΤγΤΑΝ	Lapatinib	Second	Negative
GATSBY	T-DM1	Second	Negative



FDA Approves fam-Trastuzumab Deruxtecan-nxki for HER2-Positive Gastric Adenocarcinomas Press Release – January 15, 2021

"On January 15, 2021, the Food and Drug Administration approved fam-trastuzumab deruxtecan-nxki for adult patients with locally advanced or metastatic HER2-positive gastric or gastroesophageal (GEJ) adenocarcinoma who have received a prior trastuzumab-based regimen.

Efficacy was evaluated in a multicenter, open-label, randomized trial (DESTINY-Gastric01, NCT03329690) in patients with HER2-positive locally advanced or metastatic gastric or GEJ adenocarcinoma who had progressed on at least two prior regimens, including trastuzumab, a fluoropyrimidine- and a platinum-containing chemotherapy."



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

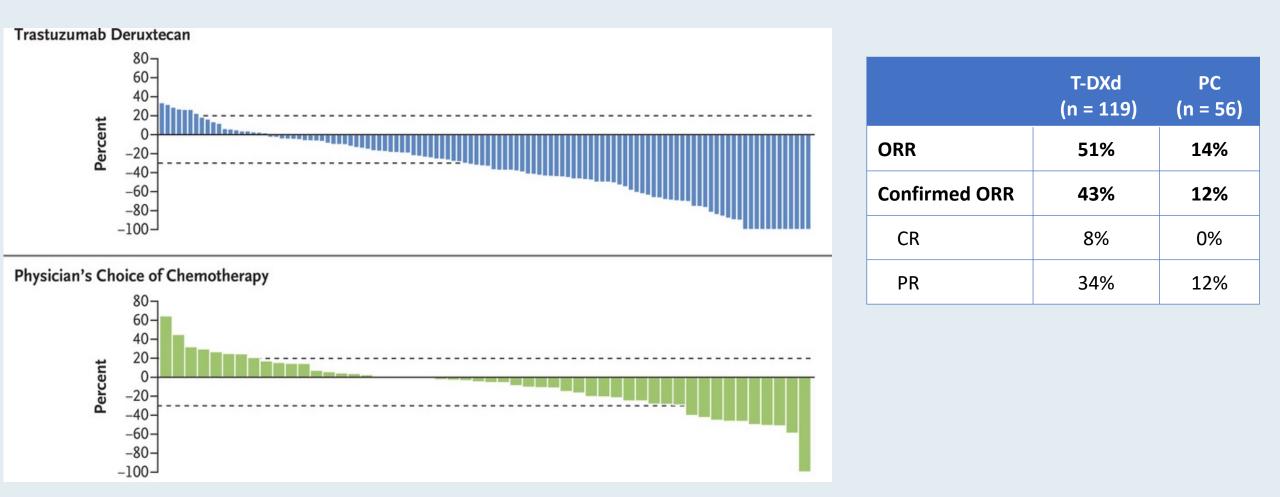
Trastuzumab Deruxtecan in Previously Treated HER2-Positive Gastric Cancer

K. Shitara, Y.-J. Bang, S. Iwasa, N. Sugimoto, M.-H. Ryu, D. Sakai, H.-C. Chung,
H. Kawakami, H. Yabusaki, J. Lee, K. Saito, Y. Kawaguchi, T. Kamio, A. Kojima,
M. Sugihara, and K. Yamaguchi, for the DESTINY-Gastric01 Investigators*

N Engl J Med 2020;382(25):2419-30.



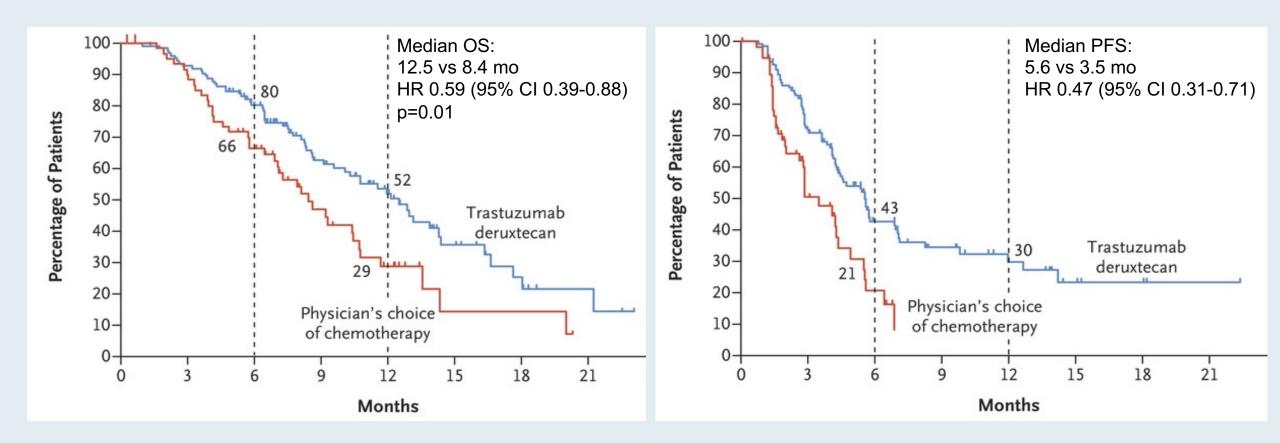
DESTINY-Gastric01: Trastuzumab Deruxtecan for Previously Treated HER2-Positive Gastric Cancer





Shitara K et al. N Engl J Med 2020;382(25):2419-30.

DESTINY-Gastric01: Survival Results





Shitara K et al. *N Engl J Med* 2020;382(25):2419-30.

DESTINY-Gastric01: Select Adverse Events

	Trastuzumab deruxtecan (n = 125)			Physician's choice of chemo (n = 62)		
Adverse event	Any grade	Grade 3	Grade 4	Any grade	Grade 3	Grade 4
Neutrophil count decreased	63%	38%	13%	35%	16%	8%
Anemia	58%	38%	0	31%	21%	2%
Platelet count decreased	39%	10%	2%	6%	2%	2%
White cell count decreased	38%	21%	0	35%	8%	3%
Fatigue	22%	7%	0	24%	3%	0
Lymphocyte count decreased	22%	6%	5%	3%	0	2%

- A total of 12 patients (10%) in the trastuzumab deruxtecan group had drug-related interstitial lung disease or pneumonitis compared to 0 patients in the physician's choice group
- 1 drug-related death (pneumonia) occurred in the trastuzumab deruxtecan group



Pooled Analysis of Drug-Related Interstitial Lung Disease (ILD) in 8 Single-Arm Trastuzumab Deruxtecan (T-DXd) Studies

Powell CA et al. AACR 2021;Abstract CT167.



Lancet Oncol 2020;21:821-31.

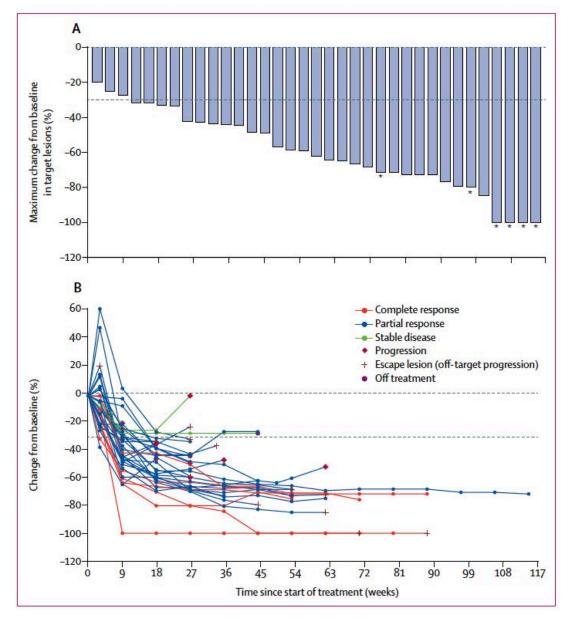
Articles

First-line pembrolizumab and trastuzumab in HER2-positive oesophageal, gastric, or gastro-oesophageal junction cancer: an open-label, single-arm, phase 2 trial

Yelena Y Janjigian, Steven B Maron, Walid K Chatila, Brittanie Millang, Shweta S Chavan, Carly Alterman, Joanne F Chou, Michal F Segal, Marc Z Simmons, Parisa Momtaz, Marina Shcherba, Geoffrey Y Ku, Alice Zervoudakis, Elizabeth S Won, David P Kelsen, David H Ilson, Rebecca J Nagy, Richard B Lanman, Ryan N Ptashkin, Mark T A Donoghue, Marinela Capanu, Barry S Taylor, David B Solit, Nikolaus Schultz, Jaclyn F Hechtman



First Line Capecitabine/Oxaliplatin/Pembrolizumab/Trastuzumab



Best Response (n=37)	Patients, n (%)
ORR, n (%)	32 (91%) 95% CI (78%, 97%)
CR	6 (17)
PR	26 (74)
SD	3 (9)
PD	0
Disease Control Rate	100%



Janjigian et al Lancet Oncology 2020

Courtesy of Yelena Y Janjigian, MD

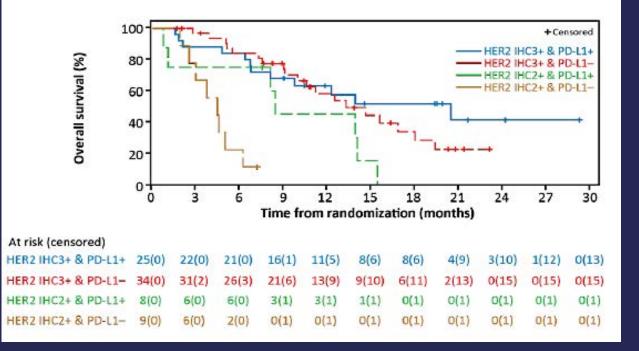
Second Line – Margetuximab/Pembrolizumab (Phase Ib/II CP-MGAH222-05 Trial)

	Num of patie	response* (%; 95% CI)	Disease control rate† (%; 95% CI)
Response-evaluable population‡	92	17 (18%; 11-28)§	49 (53%; 43-64)
HER2 IHC3-positive tissue prior to 1L	71	100%17 (24%; 15-36)	44 (62%; 50-73)
HER2 IHC2-positive	21	0	5 (24%; 8-47)
PD-L1-positive tissue prior to 1L	33	79% 11 (33%; 18-52)	22 (67%; 48-82)
PD-L1-negative	43	3 (7%; 1-19)	19 (44%; 29-60)
HER2 IHC3-positive and PD-L1-positive	25	11 (44%; 24-65)	18 (72%; 51-88)
HER2 IHC3-positive and PD-L1-negative	34	3 (9%; 2-24)	19 (56%; 38-73)
HER2 IHC2-positive and PD-L1-positive	8	0	4 (50%; 16-84)
HER2 IHC2-positive and PD-L1-negative	9	0	0
HER2=-positive ctDNA prior to 2L	48	88% 15 (31%; 19-46)	31 (65%; 49-78)
HER2	35	2 (6%; 1-19)	14 (40%; 24-58)
HER2***-positive and PD-L1-positive	18	9 (50%; 26-74)	14 (78%; 52-94)
HER2***-positive and PD-L1-positive and HER2 IHC3-positive	15	9 (60%; 32–84)	12 (80%; 52–96)
HER2 - positive and PD-L1-negative	19	3 (16%; 3-40)	12 (63%; 38-84)
HER2***-positive and HER2 IHC2-positive	9	0	2 (2%; 3-60)
HER2***P-positive and PD-L1-negative and HER2 IHC2-positive	4	0	0

This table includes only confirmed responses; there were three additional unconfirmed responses. ctDNA=circulating tumour DNA. HER2***=HER2 amplification by ctDNA. IHC=Immunohistochemistry. *Confirmed complete response and confirmed partial response. †Confirmed complete response, confirmed partial response, and stable disease. ‡Patients who received at least one dose of margetuximab 15 mg/kg intravenously every 3 weeks and had baseline measurable disease. §One confirmed complete response was observed in the double-positive (HER2 IHC3-positive and PD-L1-positive) subgroup.

Table 4: Objective response and disease control rates overall and by biomarker expression (n=92)

F. HER2 (n=7	2 & PD-L1 IHC OS (6) ^a	HER2 IHC3+ & PD-L1+ (n=25)	HER2 IHC3+ & PD-L1- (n=34)	HER2 IHC2+ & PD-L1+ (n=8)	HER2 IHC2+ & PD-L1- (n=9)	
	# of events	12	19	7	8	
	Median OS (95% CI)	20-47 months (8-08–NA)	13-27 months (9-95-18-00)	8-41 months (0-72-14-03)	4-44 months (1-87-6-21)	
	Double positive vs others: HR by Cox model, 0-54; 95% Cl, 0-28-1-04; Log-rank p=0-062					
	12-month OS rate (95% CI)	63·14% (40·91–78·94)	58-06% (37-64-73-89)	45·00% (10·76–75·13)	0	

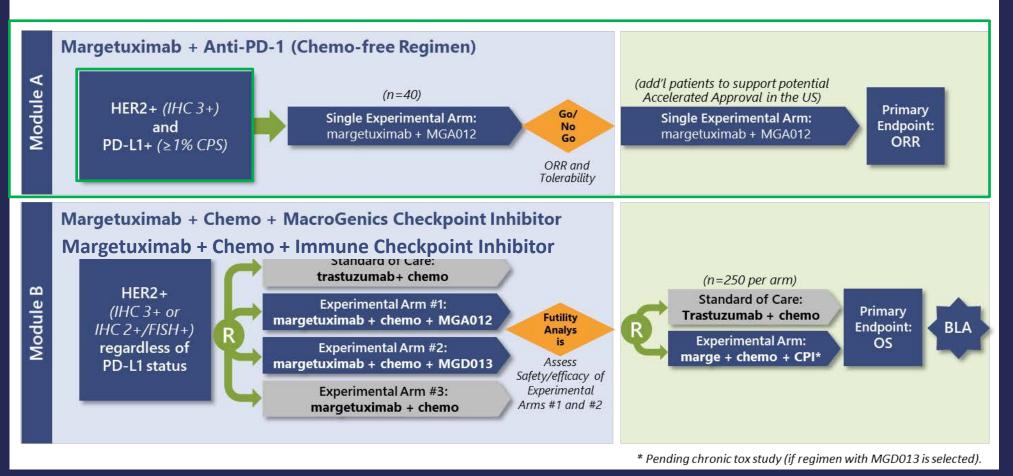


Courtesy of Daniel Catenacci, MD

Catenacci et al. Margetuximab plus pembrolizumab for previously treated, HER2-positive GEA (CP-MGAH22–05): a single-arm, phase 1b–2 trial. Lancet Oncology 2020

First Line – Margetuximab Plus Immune Checkpoint Inhibitor

MAHOGANY Phase 2/3 Study: Registration Path in 1L Gastric & GEJ Cancer



MGA012 is an investigational anti-PD-1 monoclonal antibody

MGD013 is an investigational agent targeting both PD-1 and LAG-3 Courtesy of Daniel Catenacci, MD

Phase II Study of Avelumab and Trastuzumab with FOLFOX Chemotherapy in Previously Untreated HER2-Amplified Metastatic Gastroesophageal Adenocarcinoma

Lee MS et al. AACR 2021;Abstract CT174.



Agenda

Cases from the Practice of Dr Catenacci

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Case 2: A 56-year-old man with localized adenocarcinoma of the esophagus – MSS, PD-L1 CPS 10

Case 3: A 68-year-old man with relapsed MSS adenocarcinoma of the esophagus – HER2-positive, PD-L1 CPS 0

Case 4: A 35-year-old woman with relapsed metastatic gastric cancer and disease progression on T-DXd

Case 5: A 68-year-old man with newly diagnosed metastatic GEJ cancer with an FGFR2b mutation

Case 6: A 66-year-old woman with metastatic squamous cell carcinoma of the esophagus – PD-L1 CPS 50

Case 7: A 64-year-old man with GEJ cancer and COVID-19 vaccine-associated imaging issues



Case Presentation – A 35-year-old woman with relapsed metastatic gastric cancer and disease progression on T-DXd



Dr Daniel Catenacci

- Presents with early satiety, dysphagia and 30 lb weight loss
 - EGD reveals mass in gastric body, adenocarcinoma HER2 amplified, MSS, CPS 1
 - Staging CE reveals liver and lung metastases
- FOLFOX/trastuzumab with symptom relief and stable disease for 9 months
 - New pleural effusions and worsening dysphagia
- Primary tumor reassessment: persistent HER2 amplification, but ctDNA and lung effusion cytology without HER2 amplification
- T-DXd initiated \rightarrow lung/effusions at the time of first restaging CT
- Third line FOLFIRI plus ramucirumab

Questions

- Do you take into account the whole disease burden when assessing molecular markers to determine the next best line of therapy?
- Do you use trastuzumab deruxtecan in the third line or second line therapy?



Should a liquid biopsy be used outside the context of a clinical trial to assess HER2 status in a patient with tissue-proven overexpression?

1. Yes

2. No



Ongoing Trials of Trastuzumab Deruxtecan (T-DXd) in HER2-Positive Gastric or GEJ Adenocarcinoma

Trial name (Identifier)	Phase	Target accrual (N)	Setting	Treatment arms
DESTINY-Gastric04 (NCT04704934)	III	490	 Unresectable and/or metastatic Progression on or after a trastuzumab-based regimen 	T-DXdRamucirumab + paclitaxel
DESTINY-Gastric03 (NCT04379596)	II	220	 Locally advanced, unresectable or metastatic Progression on or after at least 1 prior trastuzumab-based regimen Part 1 Previously untreated dx – Part 2 	 Part 1 T-DXd + 5-FU ± oxaliplatin (Ox) T-DXd + Cape ± Ox T-DXd + durvalumab ± 5-FU or Cape Part 2 Trastuzumab + 5-FU or Cape + Ox or Cisplatin T-DXd monotherapy T-DXd + 5-FU or Cape ± Ox T-DXd + 5-FU or Cape + durvalumab



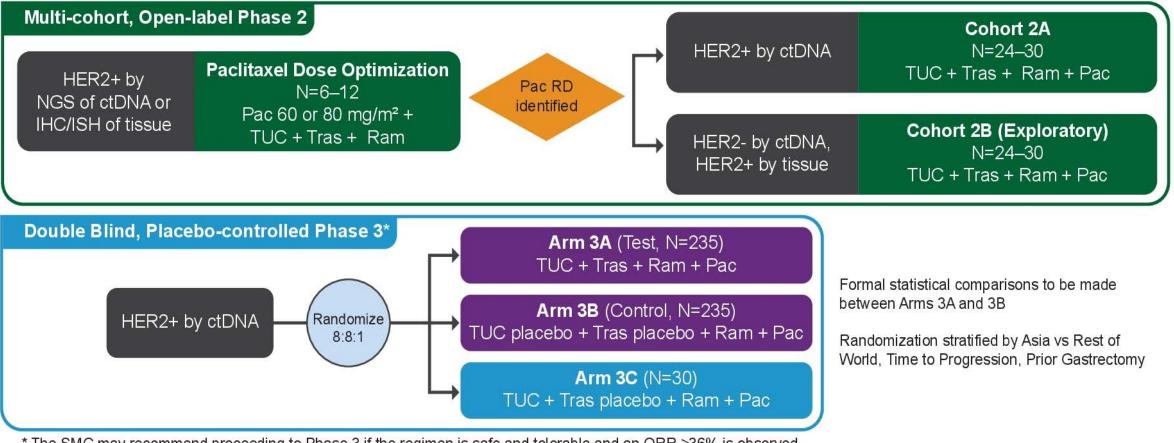
MOUNTAINEER-02: Phase II/III Study of Tucatinib, Trastuzumab, Ramucirumab, and Paclitaxel in Previously Treated HER2+ Gastric or Gastroesophageal Junction Adenocarcinoma — Trial in Progress

Strickler JH et al.

Gastrointestinal Cancers Symposium 2021; Abstract TPS252.



Study Design



* The SMC may recommend proceeding to Phase 3 if the regimen is safe and tolerable and an ORR ≥36% is observed in all response-evaluable patients treated at the Pac RD who have HER2+ disease by NGS assay of ctDNA.



Strickler JH et al. Gastrointestinal Cancers Symposium 2021; Abstract TPS252.

Agenda

Cases from the Practice of Dr Catenacci

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Case 5: A 68-year-old man with newly diagnosed metastatic GEJ cancer with an FGFR2b mutation

Case 6: A 66-year-old woman with metastatic squamous cell carcinoma of the esophagus – PD-L1 CPS 50

Case 7: A 64-year-old man with GEJ cancer and COVID-19 vaccine-associated imaging issues



Case Presentation – A 68-year-old man with newly diagnosed metastatic GEJ cancer with an FGFR2b mutation



Dr Daniel Catenacci

- Presents with dysphagia
 - EGD demonstrates mass in distal esophagus/GEJ extending into the gastric cardia
 - Biopsy confirmed adenocarcinoma
- MSS | HER2 neg | PD-L1 CPS 2 | FGFR2 amplified and overexpressing
- FOLFOX/bemarituzumab initiated \rightarrow excellent response
- Oxaliplatin stopped after 8 cycles due to neuropathy
- Patient continues on 5-FU/bemarituzumab \rightarrow stable disease ~ 30 months

Questions

- Do you routinely assess for FGFR2 amplification/overexpression, and if so, how?
- Do you routinely stop oxaliplatin after 6-8 doses to limit cumulative neuropathy or do you continue treatment until PD/neuropathy before stopping it?



In general, FGFR2 status should be assessed in all patients with metastatic gastroesophageal cancer.

- 1. Agree, by IHC
- 2. Agree, by RTPCR
- 3. Agree, by either IHC or RTPCR
- 4. Disagree



FGH T The FIGHT Clinical Trial

A double-blind randomized study of bemarituzumab (bema) plus mFOLFOX6 versus placebo plus mFOLFOX6 as first-line treatment for advanced gastric/gastroesophageal junction cancer (FIGHT)

Zev A Wainberg, Peter Enzinger, Yoon-Koo Kang, Kensai Yamaguchi, Shukui Qin, Keun-Wook Lee, Sang Cheul Oh, Jin Li, Haci Mehmet Turk, Alexandra Teixeira, Giovanni Gerardo Cardellino, Rachel Guardeno Sanchez, Siddhartha Mitra, Yingsi Yang, Helen Collins, Daniel V Catenacci

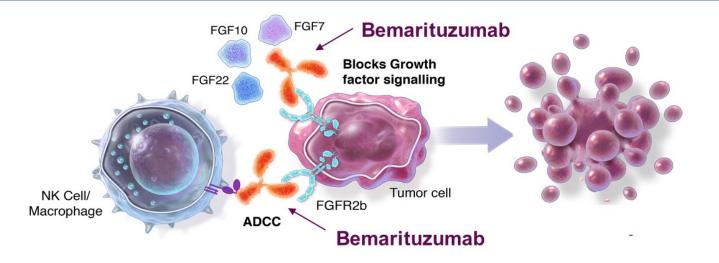
¹University of California, Los Angeles, USA, ²Dana Farber Cancer Institute, Boston, USA, ³Asan Medical Center, Seoul, South Korea, ⁴The Cancer Institute Hospital of JFCR, Koto-Ku, Tokyo, Japan, ⁵81 Hospital Nanjing University of Chinese Medicine, Nanjing, China, ⁶Seoul National University College of Medicine, Seoul National University Bundang Hospital, Seongnam, Gyeonggi-do, S.Korea, ⁷Korea University Guro Hospital, Seoul, South Korea, ⁸Shanghai East Hospital, Shanghai, China, ⁹Bezmialem Vakif Universitesi Tip Fakultesi Hastanesi, Fatih, Turkey, ¹⁰Hospital Senhora Da Oliveira, Guimaraes, Portugal, ¹¹Dipartimento di Oncologia, Azienda Ospedaliero Universitaria, Udine, Italy, ¹²Institut Catala d Oncologia Girona, Spain, ¹³Five Prime Therapeutics, South San Francisco, USA, ¹⁴University of Chicago, Chicago, USA

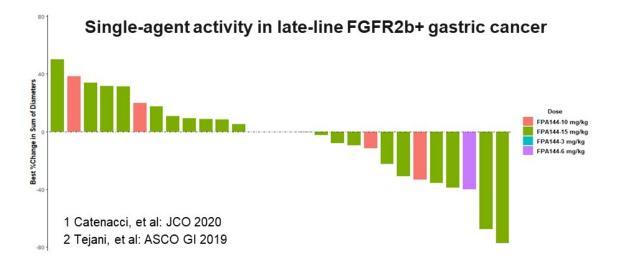
Late Breaking Abstract (LBA160)

ASCO Gastrointestinal Cancer Symposium 2021



Bemarituzumab is an IgG1 antibody specific for the FGFR2b Receptor





- Confirmed ORR = 18% (n=28)¹
- No dose-limiting toxicities
- Corneal adverse events in 3/28 patients
- Recommended Phase 2 dose: 15mg/kg Q2W with a single 7.5mg/kg dose on Cycle 1 Day 8²

FIGHT Trial Design

Key Eligibility Criteria

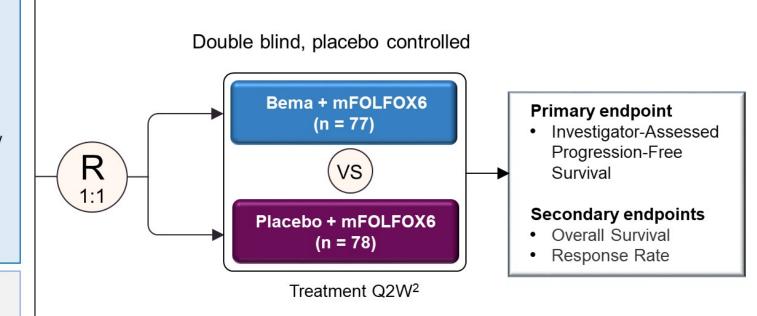
- No prior therapy for unresectable locally advanced or metastatic gastric/GEJ adenocarcinoma
- RECIST v1.1 evaluable disease
- FGFR2b overexpression by IHC and/or FGFR2 gene amplification by ctDNA¹
- ECOG 0/1
- HER2 not positive
- May receive 1 dose of mFOLFOX6

Stratification Factors

- · Geographic region
- Single dose of mFOLFOX6 during screening
- Prior adjuvant or neo-adjuvant chemotherapy

1 Central testing: Immunohistochemical stain (Ventana): cut-off any 2+/3+; circulating tumor DNA (PGDx): cut-off 1.5X

2~ 15mg/kg Q2W with a single 7.5mg/kg dose on Cycle 1 Day 8^2

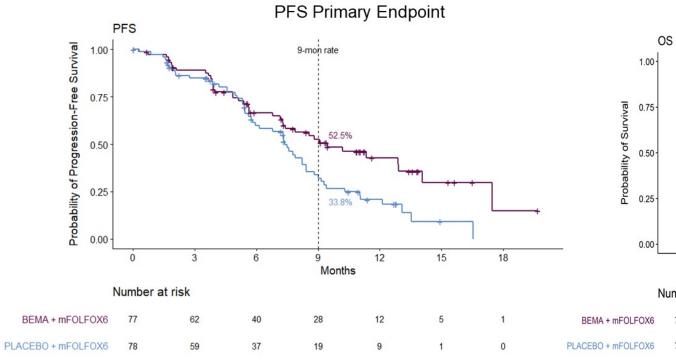


Statistical Plan

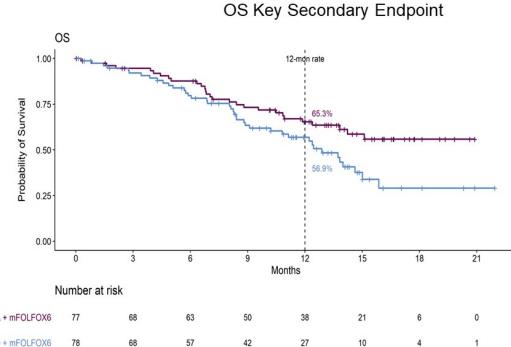
Trial initially designed as registrational Phase 3 (n=548) with 2-sided α 0.05 Amended after enrolling n = 155 to a proof-of-concept Phase 2 with pre-specified statistical assumptions of:

- · Hierarchical sequential testing: PFS, then OS/ORR
- \geq 84 events to demonstrate benefit at a HR \leq 0.76 for PFS at 2-sided α of 0.2

Progression-Free Survival and Overall Survival: Intent to Treat



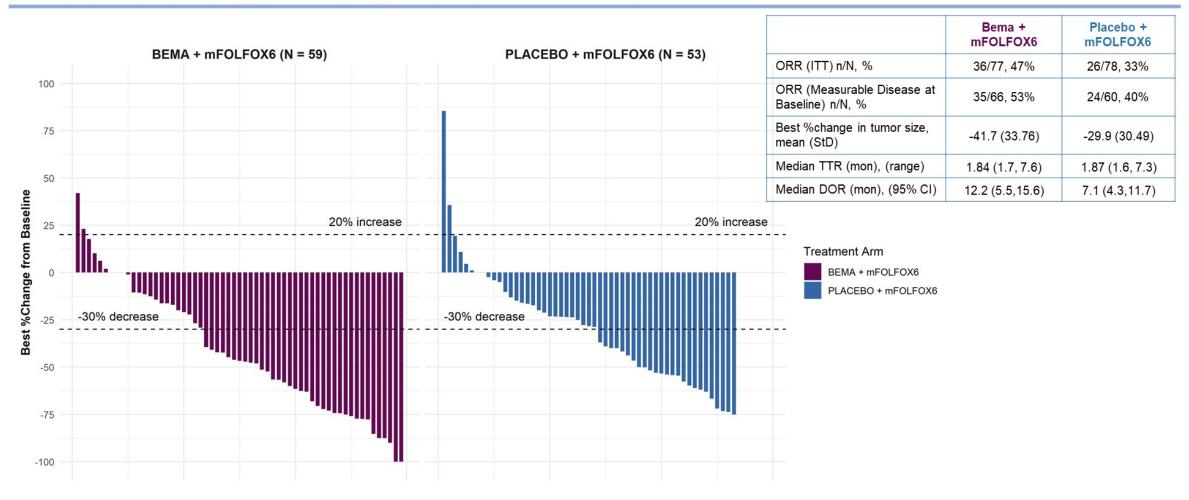
	Bema N = 77	Placebo N = 78
Median PFS, mo	9.5	7.4
	(7.3, 12.9)	(5.8, 8.4)
(95% CI)	P=0.0727	
HR (95% CI)	0.68 (0.44, 1.04)	



	Bema N = 77	Placebo N = 78
Median OS, mo	NR (13.8, NR)	12.9 (9.1, 15.0)
(95% CI)	<i>P</i> =0.0268	
HR (95% CI)	0.58 (0.35, 0.95)	

Presented By Zev Wainberg at 2021 Gastrointestinal Cancers Symposium

Best % Change in Target Lesions from Baseline



Only subjects with measurable disease at baseline and at least 1 evaluable scan postbaseline are included in the waterfall plot. DOR = Duration of response; TTR = Time to response ^: estimated among subjects with measurable disease at baseline

FIGHT: Corneal-Related Adverse Events

Trial required corneal evaluation at baseline and every 8 weeks until the end of treatment¹

	Bema (N = 76)	Placebo (N = 77)
Corneal Adverse Events (SMQ) ² All Grade ³	51 (67.1%)	8 (10.4%)
Corneal Adverse Events (SMQ) Grade 34	18 (23.7%)	0
Median time to onset to any grade, weeks (range)	16.1 (0.1, 41.0)	11.6 (6.0, 29.0)
Corneal AE leading to bema/placebo discontinuation ⁵	20 (26.3%)	0
AE resolved	12 (60.0%)	0
AE not resolved as of 23 Sept 2020	8 (40.0%)	0
Median time to resolution, weeks (95%CI)	27.0 (18.9, NR)	NA

¹ If any event reported, examinations were to continue every 8W until resolution, even if drug discontinued

² SMQ = Standardised MedDRA Query

³ Most common: dry eye (26.3%), keratitis (15.8%), punctate keratitis (14.5%), vision blurred (15.0%), corneal epithelium defect (10.5%)

⁴ No \geq grade 4 event reported

⁵ Most common: dry eye (n=4), keratitis (n=4), corneal disorder (n=2), eye disorder (n=2) limbal stem cell deficiency (n=2), punctate keratitis (n=2)

Courtesy of Daniel Catenacci, MD

Agenda

Cases from the Practice of Dr Catenacci

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Case 2: A 56-year-old man with localized adenocarcinoma of the esophagus – MSS, PD-L1 CPS 10

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Case 5: A 68-year-old man with newly diagnosed metastatic GEJ cancer with an FGFR2b mutation

Case 6: A 66-year-old woman with metastatic squamous cell carcinoma of the esophagus – PD-L1 CPS 50

Case 7: A 64-year-old man with GEJ cancer and COVID-19 vaccine-associated imaging issues



Case Presentation – A 66-year-old woman with metastatic squamous cell carcinoma of the esophagus – PD-L1 CPS 50



Dr Daniel Catenacci

- Presents with dysphagia, weight loss and chronic cough
 - EGD reveals mass at the proximal/mid esophagus consistent with squamous cell esophageal cancer
 - Staging CT: Liver and bone metastases, signs of chronic aspiration superimposed on emphysematous changes
- FOLFOX + pembrolizumab (400mg q6weeks) initiated → Stable disease
- Persistent dysphagia
 - G-tube placed; palliative carboplatin/paclitaxel/RT initiated

Questions

- Do you consider definitive CRT in patients with Stage IV esophageal SCC?
- Would you resume pembrolizumab after completion of definitive CRT and what is the rationale for your decision?



Regulatory and reimbursement issues aside, in which line of therapy would you generally recommend an anti-PD-1/PD-L1 antibody (with or without chemotherapy) for a 65-year-old patient with metastatic HER2-negative, <u>MSS squamous cell carcinoma</u> of the esophagus with a <u>PD-L1 CPS of 5%</u>?

- 1. First line
- 2. Second line
- 3. Third line
- 4. Beyond third line
- 5. I would not recommend an anti-PD-1/PD-L1 antibody



Agenda

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Case 7: A 64-year-old man with GEJ cancer and COVID-19 vaccine-associated imaging issues



Case Presentation – A 64-year-old man with GEJ cancer and COVID-19 vaccine-associated imaging issues



Dr Daniel Catenacci

- Presents with localized GEJ cancer, with positive perigastric nodes
- Positive subpectoral and axillary lymph nodes identified "hot on PET"
- At multidisciplinary tumor board, surgeon questions whether this is Stage IV disease
 - Should therapy be withheld?
- Subsequently learned that the patient received a COVID-19 vaccine on the same side as the subpectoral and axillary nodes



Appendix



Original Investigation

September 3, 2020

Efficacy and Safety of Pembrolizumab or Pembrolizumab Plus Chemotherapy vs Chemotherapy Alone for Patients With First-line, Advanced Gastric Cancer The KEYNOTE-062 Phase 3 Randomized Clinical Trial

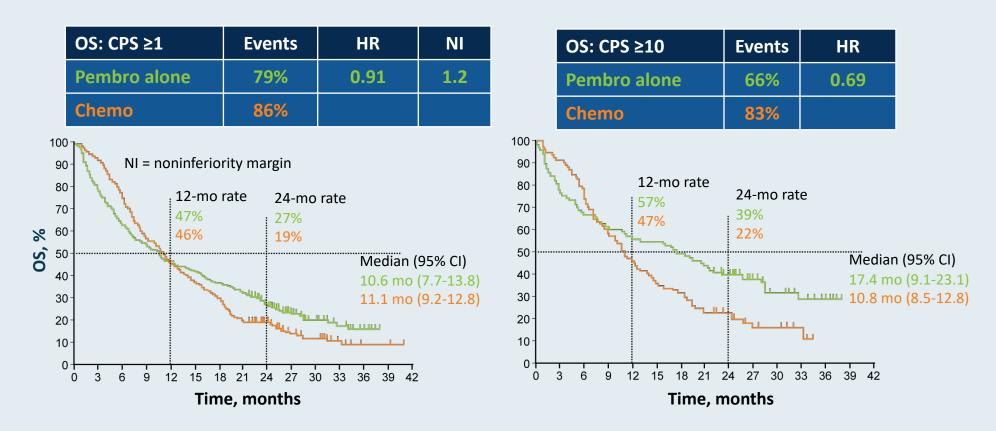
Kohei Shitara, MD¹; Eric Van Cutsem, MD²; Yung-Jue Bang, MD³; et al

» Author Affiliations

JAMA Oncol. 2020;6(10):1571-1580. doi:10.1001/jamaoncol.2020.3370



KEYNOTE-062: Overall Survival by PD-L1 CPS Score

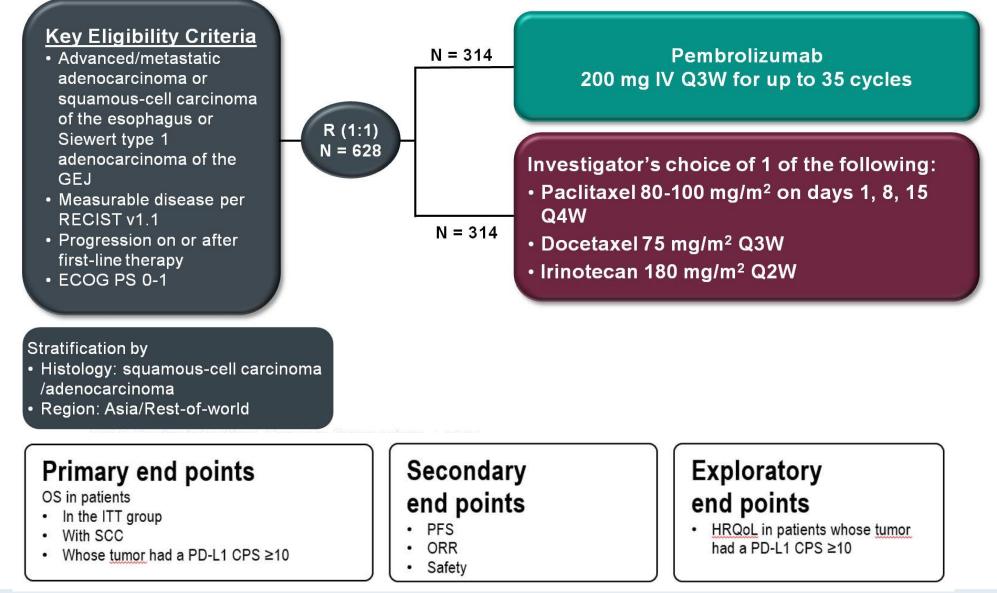


- Pembrolizumab was noninferior to chemotherapy for OS in patients with CPS ≥1, and a clinically meaningful improvement in OS was reported with pembro vs chemo for patients with CPS ≥10.
- Pembrolizumab + chemotherapy did not show superior OS for patients with CPS ≥1 or CPS ≥10, and the combination did not show superior PFS for patients with CPS ≥1.



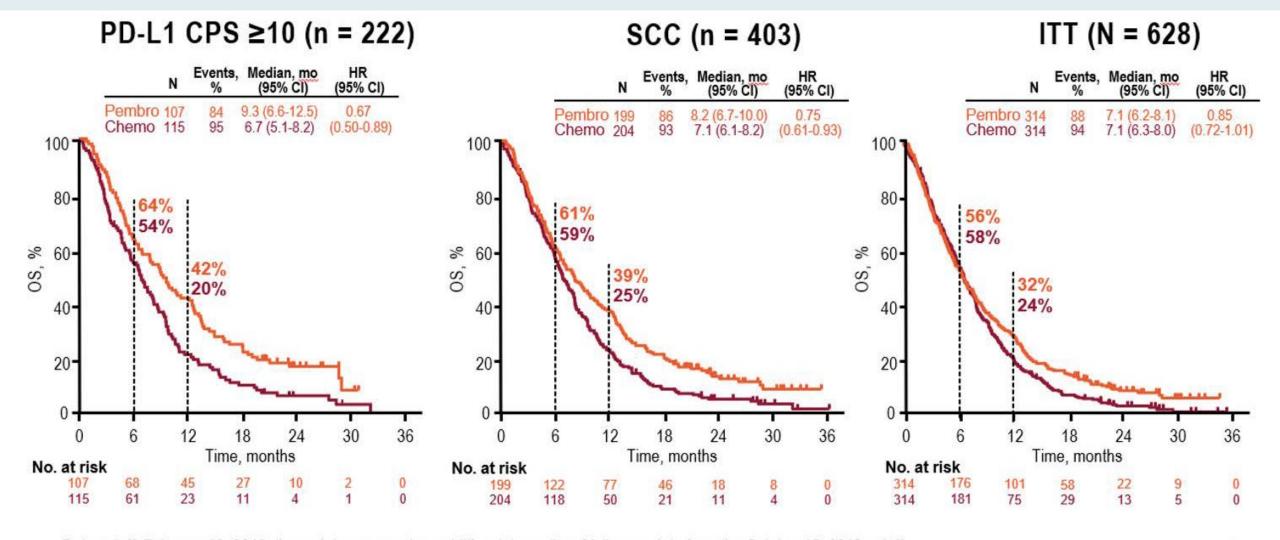
Shitara K et al. JAMA Oncol 2020;6(10):1571-80.

Phase 3 KEYNOTE-181 Study (NCT02564263)



Presented By Takashi Kojima at 2019 Gastrointestinal Cancer Symposium and Sung-Bae Kim at 2019 ESMO Asia Congress

KEYNOTE-181: Overall Survival in the Global Population



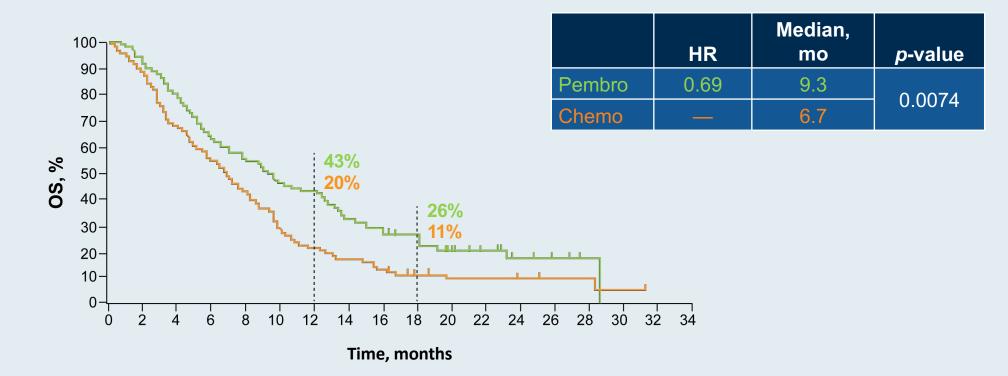
Data cutoff: February 13, 2019; these data represent an additional 4 months of follow up data from the October 15, 2018 cutoff.

Bang et al, 2019 ESMO Asia

Courtesy of Zev Wainberg, MD, MSc

5

KEYNOTE-181: Overall Survival (PD-L1 CPS ≥10) for Patients with Squamous Cell Carcinoma



- ORR higher with pembrolizumab than with chemotherapy for patients with CPS ≥10 (21.5% vs 6.1%)
- Lower frequency of Grade 3-5 treatment-related adverse events with pembrolizumab than with chemotherapy (18.2% vs 40.9%); no new safety signals observed

Kojima T et al. Gastrointestinal Cancers Symposium 2019; Abstract 2; Metges J et al. *Proc ESMO World GI Congress* 2019; Abstract O-012.

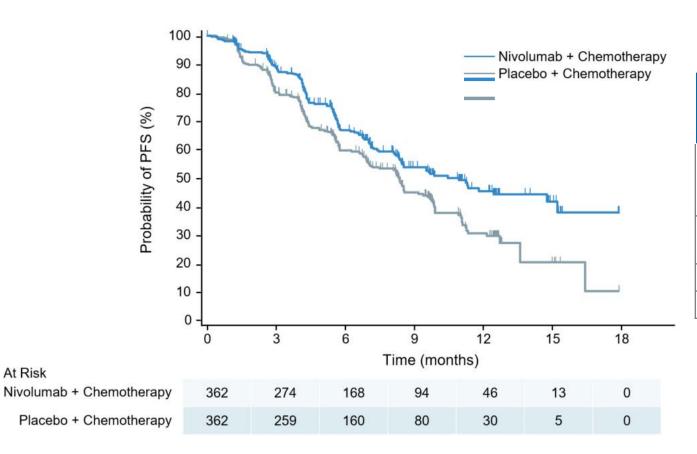


Nivolumab plus Chemotherapy versus Chemotherapy Alone in Patients with Previously Untreated Advanced or Recurrent Gastric/Gastroesophageal Junction (G/GEJ) Cancer: ATTRACTION-4 (ONO-4538-37) Study

Boku N et al. ESMO 2020;Abstract LBA7_PR.



ATTRACTION-4: Progression-Free Survival (Interim Analysis)



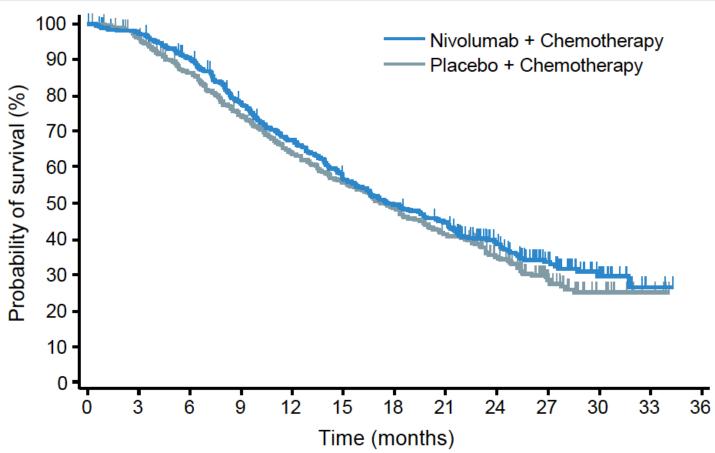
	Nivolumab + chemotherapy N = 362	Placebo + chemotherapy N = 362		
Median PFS, months (95% CI)	10.45 (8.44-14.75)	8.34 (6.97-9.40)		
Hazard ratio	0.68			
(98.51% CI)	(0.51 -	(0.51 – 0.90) 0.0007		
P value	0.0			
1yr PFS rate (%)	45.4	30.6		

Cut off: 31 Oct 2018 for Interim analysis

 PFS was continuously longer in NIVO + Chemo than in Chemo at the final analysis (NIVO+Chemo vs. Chemo: HR 0.70; mPFS 10.9 vs. 8.4 mo)

Courtesy of Yelena Y Janjigian, MD

ATTRACTION-4: Final Analysis of OS



	Nivo + chemo (n = 362)	Placebo + chemo (n = 362)	HR (<i>p</i> -value)
Median OS	17.45 mo	17.15 mo	0.90 (0.257)



Boku N et al. ESMO 2020; Abstract LBA7_PR.

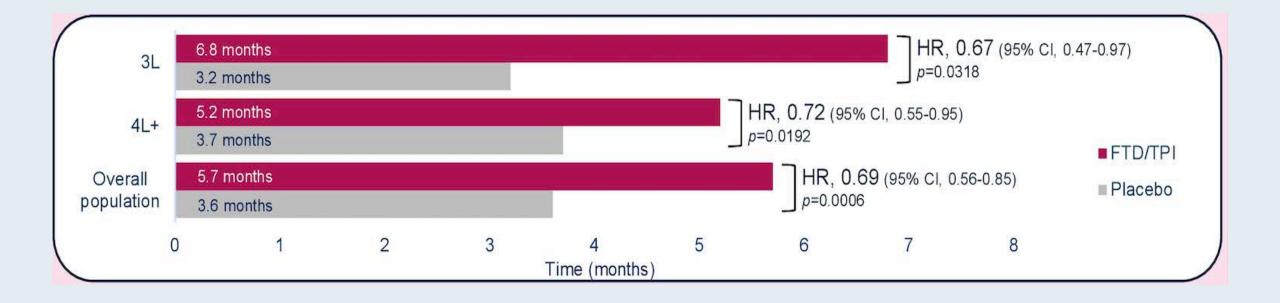
Trifluridine/Tipiracil Outcomes in Third or Later Lines versus Placebo in Metastatic Gastric Cancer Treatment: An Exploratory Subgroup Analysis from the TAGS Study

Tabernero J et al.

Gastrointestinal Cancers Symposium 2021; Abstract 229.



TAGS Exploratory Subgroup Analysis: Median OS in the ITT Population



Tabernero J et al. Gastrointestinal Cancers Symposium 2021; Abstract 229.

Rainbow-Asia: A Randomized, Multicenter, Double-Blind, Phase III Study of Ramucirumab plus Paclitaxel versus Placebo plus Paclitaxel in the Treatment of Advanced Gastric or Gastroesophageal Junction (GEJ) Adenocarcinoma Following Disease Progression on First-Line Chemotherapy with Platinum and Fluoropyrimidine

Xu R et al.

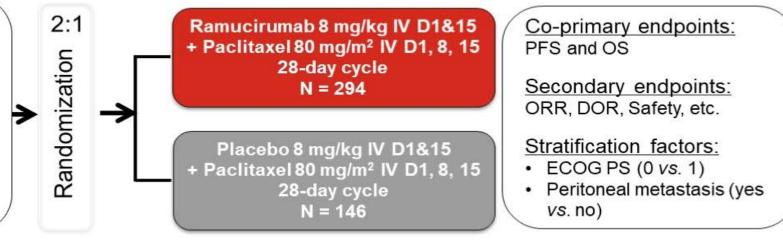
Gastrointestinal Cancers Symposium 2021; Abstract 199.



STUDY DESIGN

- Histopathologically or cytologically confirmed diagnosis of gastric or GEJ adenocarcinoma
- Have metastatic disease or locally advanced, unresectable disease
- Have at least 1 measurable lesion
- Progression on or within 4 months after first-line therapy with platinum and fluoropyrimidine with or without anthracycline
- ECOG PS ≤ 1

N=440



Statistical consideration: 336 deaths will provide at least 80% probability to assure that the treatment effect observed in this study is consistent with the global study.

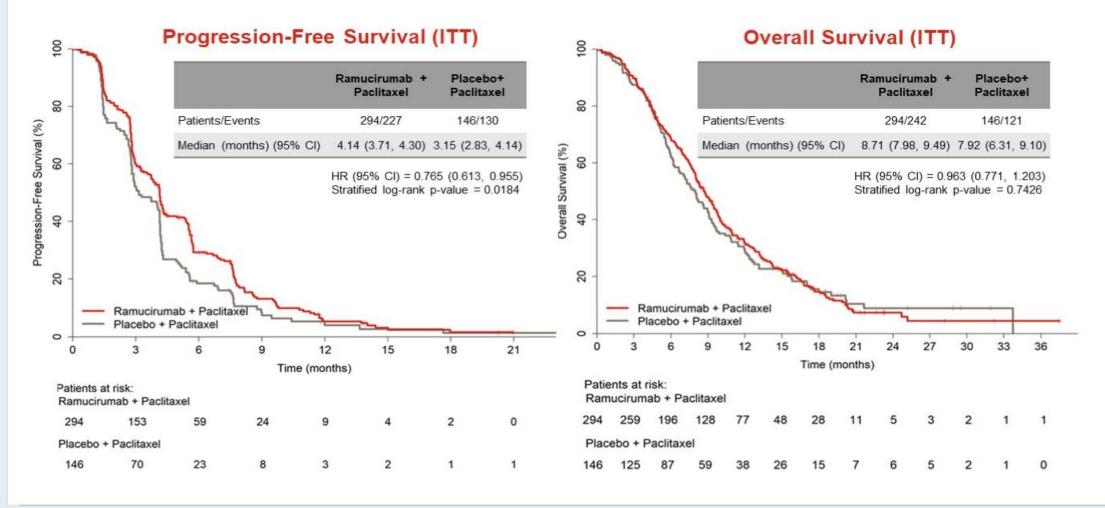
Abbreviations: DOR = duration of response; ECOG PS = Eastern Cooperative Oncology Group performance status; GEJ = gastroesophageal junction; IV = intravenous; N = number of patients; PFS = progression-free survival; ORR = objective response rate; OS = overall survival; TTP = time to progression.



Xu R et al. Gastrointestinal Cancers Symposium 2021; Abstract 199.

KEY RESULT

Efficacy Co-Primary Endpoints



RTP RESEARCH TO PRACTICE

Xu R et al. Gastrointestinal Cancers Symposium 2021; Abstract 199.

Three-Year Follow-Up of ATTRACTION-3: A Phase III Study of Nivolumab (Nivo) in Patients with Advanced Esophageal Squamous Cell Carcinoma (ESCC) That Is Refractory or Intolerant to Previous Chemotherapy

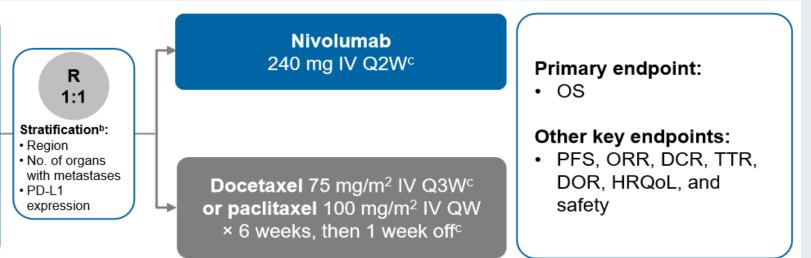
Chin K et al. Gastrointestinal Cancers Symposium 2021;Abstract 204.



ATTRACTION-3: Nivolumab for Esophageal Squamous Cell Carcinoma (ESCC)

Key eligibility criteria

- Unresectable advanced or recurrent ESCC
- Refractory to or intolerant of 1 prior fluoropyrimidine/ platinum-based therapy
- ECOG performance status
 0 or 1

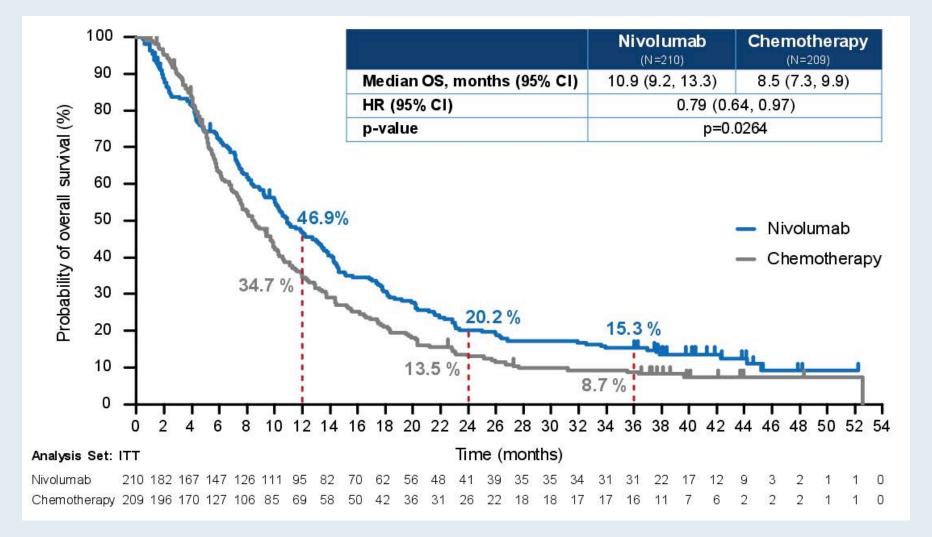


	Nivolumab	Chemotherapy	P value
Overall Response Rate	19%	22%	0.63
Disease Control Rate	37%	63%	
Median Time to Response	2.6 months	1.5 months	
Duration of Response	6.9 months	3.9 months	
Treatment-Related Adverse Events	66%	95%	
Dose delays due to Adverse Events	39%	50%	

Cho BC et al ESMO 2019 Annual Congress and Kato K et al Lancet Oncology 2019

Courtesy of Zev Wainberg, MD, MSc

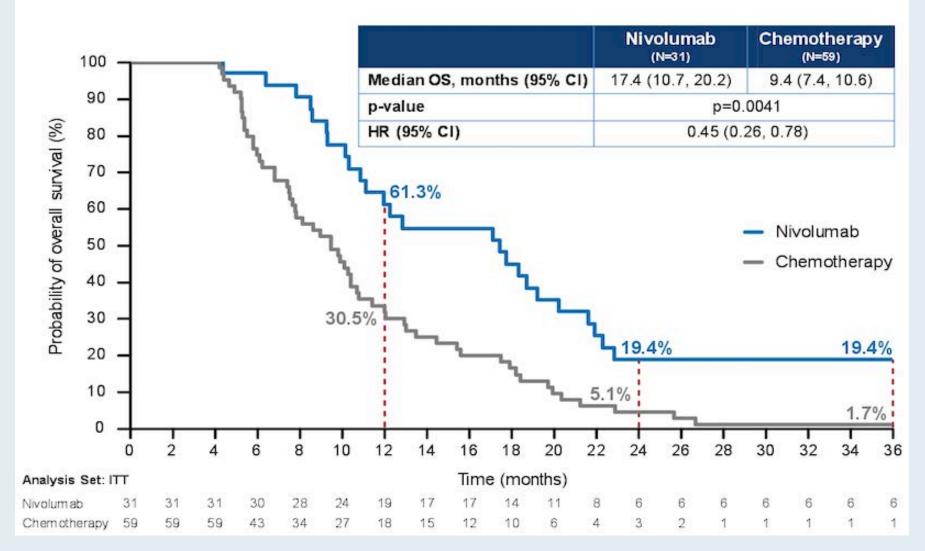
ATTRACTION-3: Overall Survival (3-Year Follow-Up)



• No new safety signal was identified with 3 years follow-up and no major late-onset TRAEs were observed

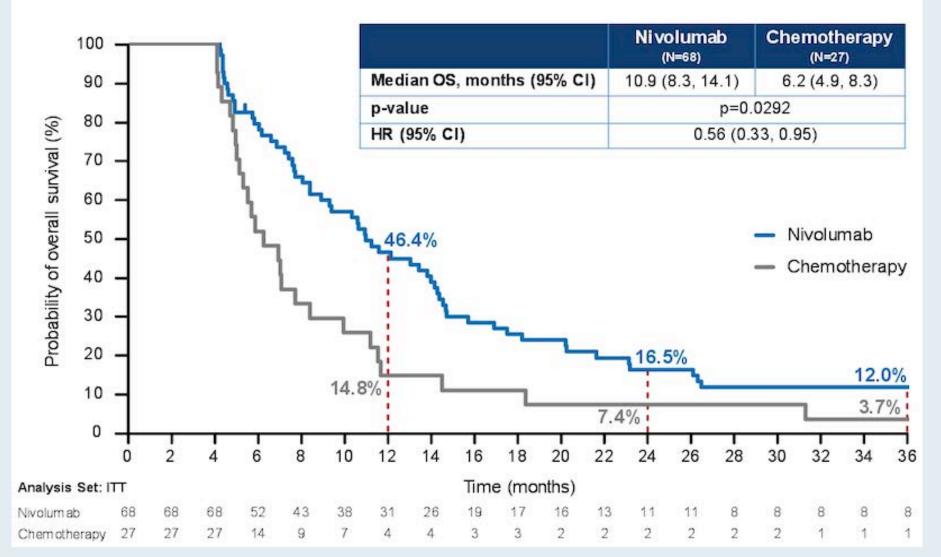
Chin K et al. Gastrointestinal Cancers Symposium 2021; Abstract 204.

ATTRACTION-3: OS Landmark Analysis at 4 Months by Best Overall Response – Stable Disease



Chin K et al. Gastrointestinal Cancers Symposium 2021; Abstract 204.

ATTRACTION-3: OS Landmark Analysis at 4 Months by Best Overall Response – Progressive Disease



Chin K et al. Gastrointestinal Cancers Symposium 2021; Abstract 204.

Nivolumab in advanced esophageal squamous cell carcinoma (ATTRACTION-1/ONO-4538-07): Minimum of 5-year follow-up

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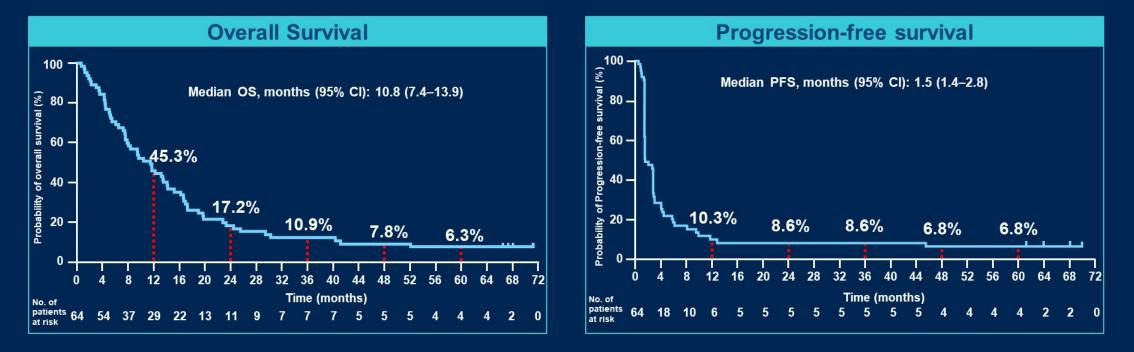
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ATTRACTION-1: Efficacy

 At a minimum follow-up of five years, the median duration of OS and PFS were 10.8 and 1.5 months, respectively.



N = 64, one patient had multiple primary cancers and was excluded from the analysis of primary and secondary endpoints OS, overall survival; PFS, progression-free survival

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Conclusions

- Nivolumab demonstrated durable efficacy in patients with advanced ESCC based on a minimum of 5-year update of ATTRACTION-1 study.
- No new safety signals with nivolumab were identified.

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• Long-term survivors tended to show the deeper response (e.g., complete response) of nivolumab in this study.

For additional information, see poster # 207

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