

# **Consensus or Controversy?**

## **Clinical Investigator Perspectives on the Current and Future Management of Colorectal and Gastroesophageal Cancers**

**Tuesday, August 3, 2021**  
**5:00 PM – 6:00 PM ET**

### **Faculty**

**Chloe E Atreya, MD, PhD**  
**Dustin Deming, MD**  
**Eric Van Cutsem, MD, PhD**  
**Zev Wainberg, MD, MSc**

### **Moderator**

**Neil Love, MD**

# Faculty



**Chloe E Atreya, MD, PhD**  
Associate Professor in Residence  
Gastrointestinal Oncology Program  
University of California, San Francisco  
Helen Diller Family Comprehensive  
Cancer Center  
San Francisco, California



**Zev Wainberg, MD, MSc**  
Co-Director, GI Oncology Program  
Director of Early Phase Clinical Research  
Jonsson Comprehensive Cancer Center  
UCLA School of Medicine  
Los Angeles, California



**Dustin Deming, MD**  
ACI/Schwenn Family Associate Professor  
University of Wisconsin  
School of Medicine and Public Health  
Madison, Wisconsin



**Moderator**  
**Neil Love, MD**  
Research To Practice  
Miami, Florida



**Eric Van Cutsem, MD, PhD**  
Professor of Medicine  
Digestive Oncology  
University Hospitals Leuven  
Leuven, Belgium

## Commercial Support

This activity is supported by educational grants from Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Daiichi Sankyo Inc, Eisai Inc, Exelixis Inc, Lilly, Merck and Taiho Oncology Inc.

## Dr Love — Disclosures

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: AbbVie Inc, Adaptive Biotechnologies Corporation, ADC Therapeutics, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Coherus BioSciences, Daiichi Sankyo Inc, Eisai Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Novartis, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seagen Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc and Verastem Inc.



# Research To Practice CME Planning Committee Members, Staff and Reviewers

Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

# Dr Atreya — Disclosures

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<b>Research Funding (Institution)</b>	Bristol-Myers Squibb Company, Gossamer Bio, Guardant Health, Kura Oncology, Merck, Novartis

# Dr Deming — Disclosures

<b>Advisory Committee</b>	Acrotech Biopharma, Bayer HealthCare Pharmaceuticals, MEI Pharma Inc, Pfizer Inc, Promega Corporation
<b>Contracted Research</b>	Arcus Biosciences, Bristol-Myers Squibb Company, Genentech, a member of the Roche Group, Merck

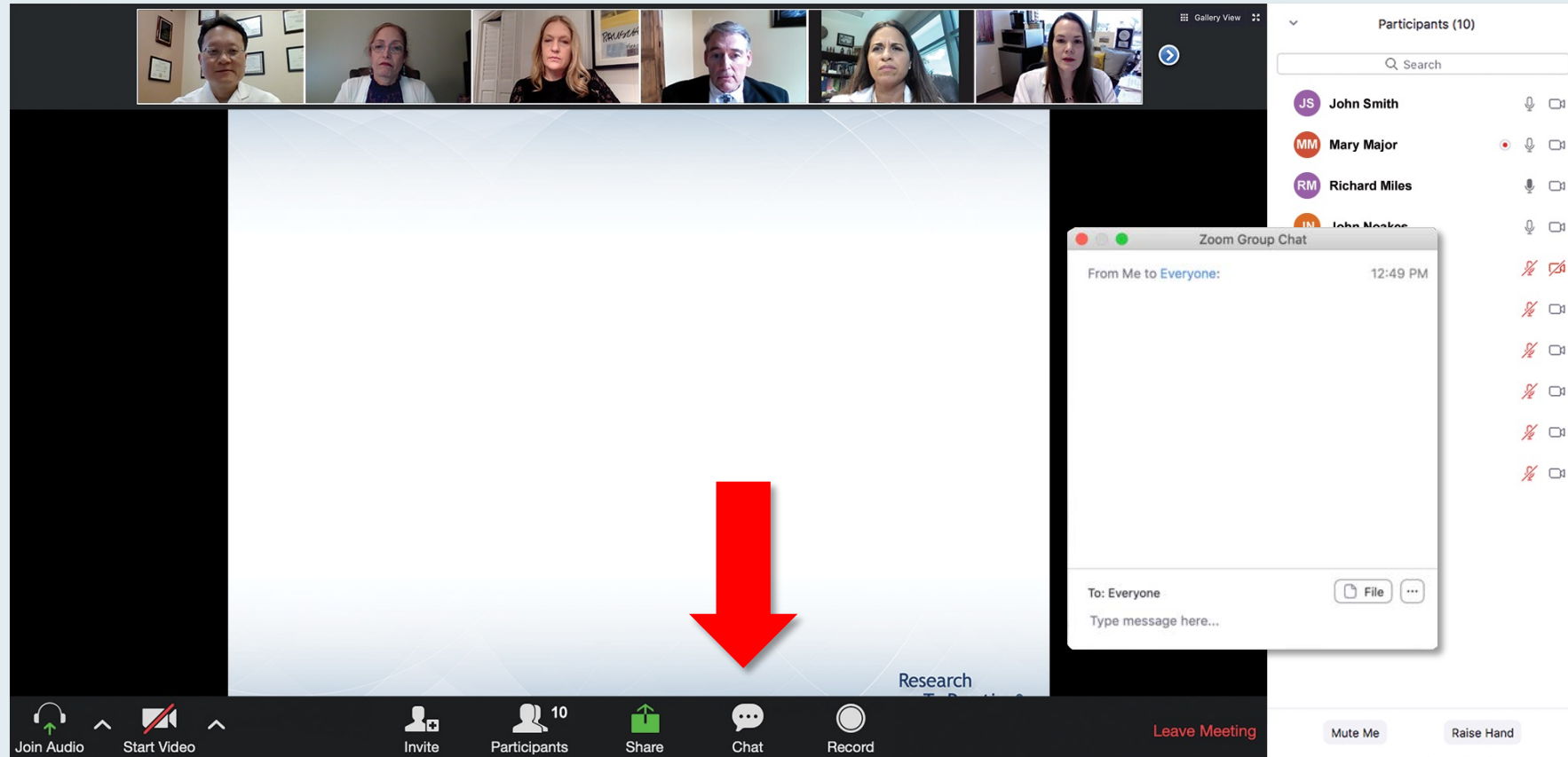
# Prof Van Cutsem — Disclosures

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<b>Contracted Research</b>	Amgen Inc, Bayer HealthCare Pharmaceuticals, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Ipsen Biopharmaceuticals Inc, Lilly, Merck KGaA, Merck Sharp & Dohme Corp, Novartis, Roche Laboratories Inc, Servier

# Dr Wainberg — Disclosures

<b>Consulting Agreements</b>	Amgen Inc, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Daiichi Sankyo Inc, Five Prime Therapeutics Inc, Gilead Sciences Inc, Ipsen Biopharmaceuticals Inc, Lilly, Merck, Molecular Templates
<b>Contracted Research</b>	Arcus Biosciences, Five Prime Therapeutics Inc, Novartis, Plexxikon Inc
<b>Data and Safety Monitoring Board/Committee</b>	Array BioPharma Inc, a subsidiary of Pfizer Inc, Pfizer Inc

# We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.

# Familiarizing Yourself with the Zoom Interface

## How to answer poll questions

The screenshot shows a Zoom meeting interface. At the top, there are six video thumbnails of participants. Below them is a slide with a poll question: "What is your usual treatment recommendation for a patient with MM who has been followed by ASCT and experiences an asymptomatic relapse?" The slide lists ten treatment options, each with a corresponding radio button. A "Quick Poll" window is overlaid on the slide, showing the same options with radio buttons. The bottom of the slide has a "Submit" button. At the bottom of the Zoom window, there is a toolbar with icons for "Join Audio", "Start Video", "Invite", "Participants" (10), "Share", "Chat", "Record", and "Leave Meeting". On the right side, there is a "Participants (10)" list with names and icons for audio and video status.

Participants (10)

Search

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

What is your usual treatment recommendation for a patient with MM who has been followed by ASCT and experiences an asymptomatic relapse?

Quick Poll

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Submit

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Join Audio Start Video Invite Participants 10 Share Chat Record Leave Meeting Mute Me Raise Hand

When a poll question pops up, click your answer choice from the available options.  
Results will be shown after everyone has answered.

# Familiarizing Yourself with the Zoom Interface

## Expand chat submission box

The screenshot shows a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Meet The Professor Program Steering Committee" with six members listed:

- John N Allan, MD**  
Assistant Professor of Medicine  
Weill Cornell Medicine  
New York, New York
- Ian W Flinn, MD, PhD**  
Director of Lymphoma Research Program  
Sarah Cannon Research Institute  
Tennessee Oncology  
Nashville, Tennessee
- Steven Coutre, MD**  
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Stanford University School of Medicine  
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Associate Professor of Medicine  
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Director of Clinical Research  
Division of Lymphoma  
Dana-Farber Cancer Institute  
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- Brian T Hill, MD, PhD**  
Director, Lymphoid Malignancy Program  
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Cleveland, Ohio

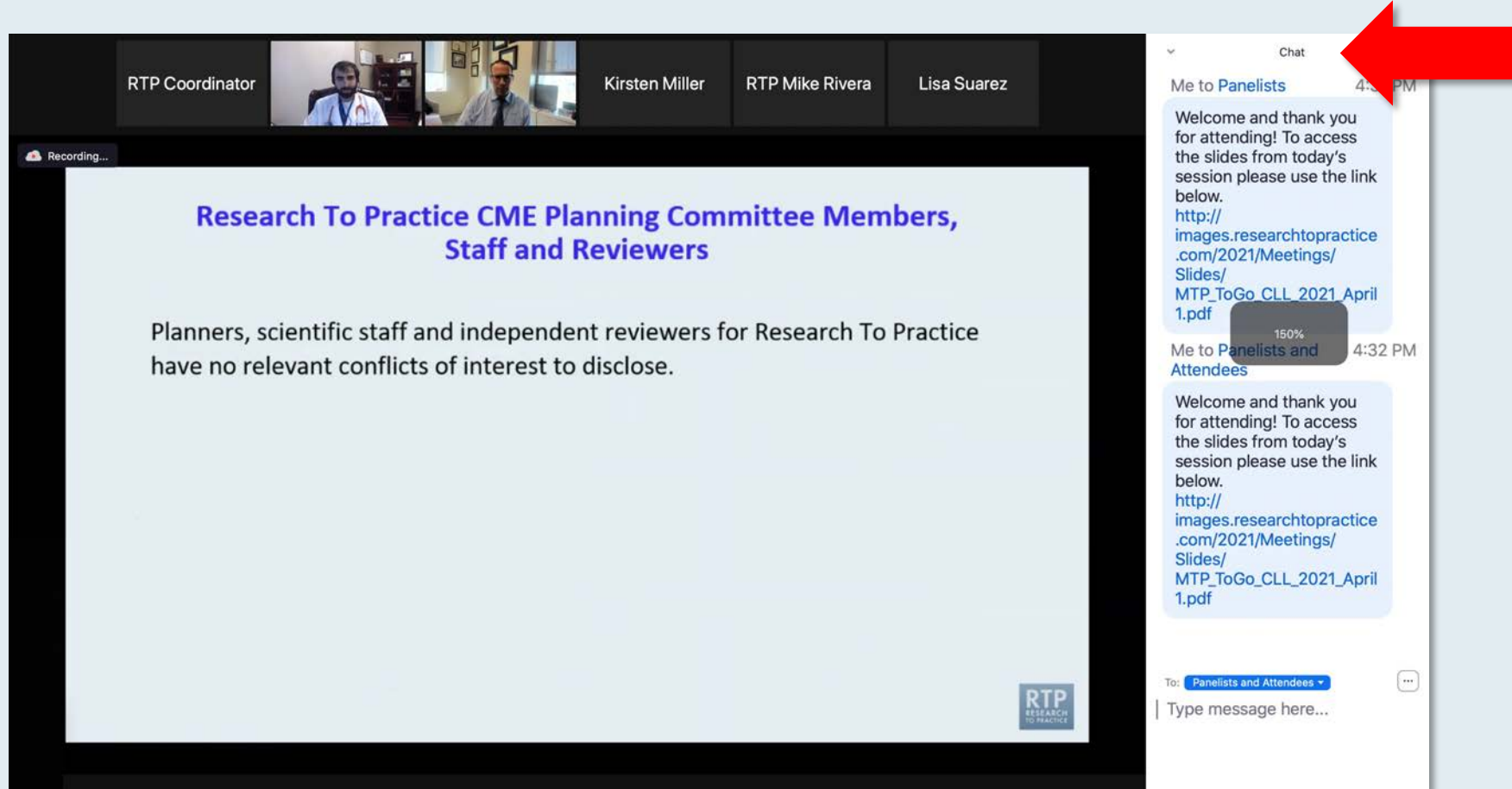
The chat window on the right shows two messages from "Me to Panelists" and "Me to Panelists and Attendees" at 4:31 PM and 4:32 PM respectively. The messages contain a welcome message and a link to a PDF slide: [http://images.researchtopractice.com/2021/Meetings/Slides/MTP\\_ToGo\\_CLL\\_2021\\_April1.pdf](http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf). The chat submission box at the bottom right is expanded, showing a red arrow pointing to the white line above the "Type message here..." input field.

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



The screenshot shows a Zoom meeting interface. At the top, there are video thumbnails for participants: RTP Coordinator, Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below the thumbnails is a slide titled "Research To Practice CME Planning Committee Members, Staff and Reviewers". The slide content reads: "Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose." The RTP logo is in the bottom right corner of the slide. On the right side, the chat window is open, showing a message from "Me to Panelists" at 4:32 PM. The message text is: "Welcome and thank you for attending! To access the slides from today's session please use the link below. http://images.researchtopractice.com/2021/Meetings/Slides/MTP\_ToGo\_CLL\_2021\_April\_1.pdf". A red arrow points to the chat window, specifically to the font size adjustment icon (a small square with a plus sign) located above the message text. The chat window also shows a "150%" font size indicator.

**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

## Gastroesophageal Cancers



DR JAFFER AJANI  
MD ANDERSON CANCER CENTER



# Consensus or Controversy? Clinical Investigator Perspectives on the Current and Future Management of Hepatocellular Carcinoma and Pancreatic Cancer

Wednesday, August 4, 2021  
5:00 PM – 6:30 PM ET

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Kim A Reiss Binder, MD  
Eileen M O'Reilly, MD  
Philip A Philip, MD, PhD, FRCP

## Moderator

Neil Love, MD



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## Chronic Lymphocytic Leukemia

**Thursday, August 5, 2021**

**5:00 PM – 6:00 PM ET**

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**Lesley Camille Ballance, MSN, FNP-BC**

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***Thank you for joining us!***

***CME and MOC credit information will be emailed to each participant within 2-3 business days.***

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## *Consensus or Controversy* Consulting Investigators



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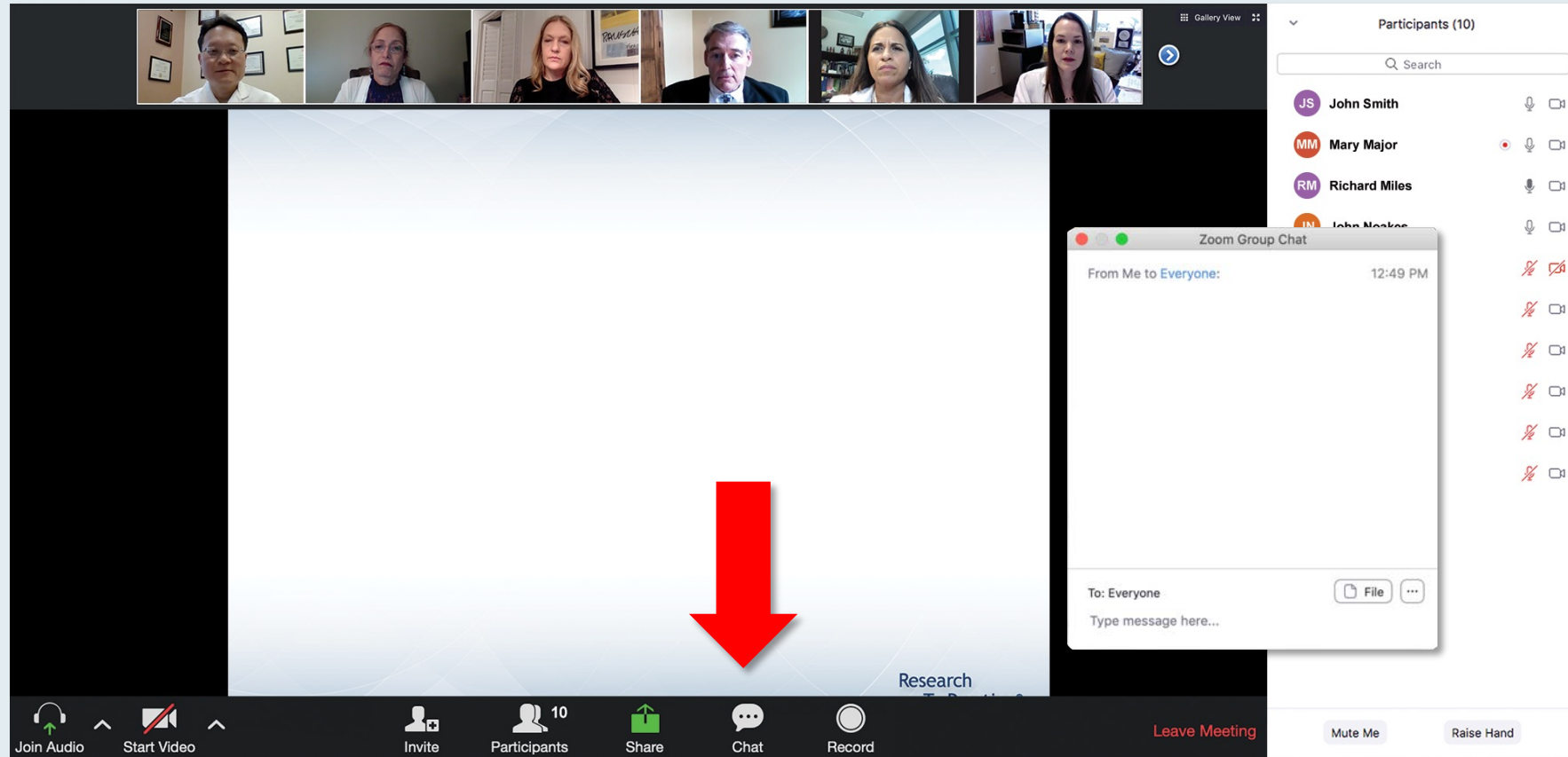


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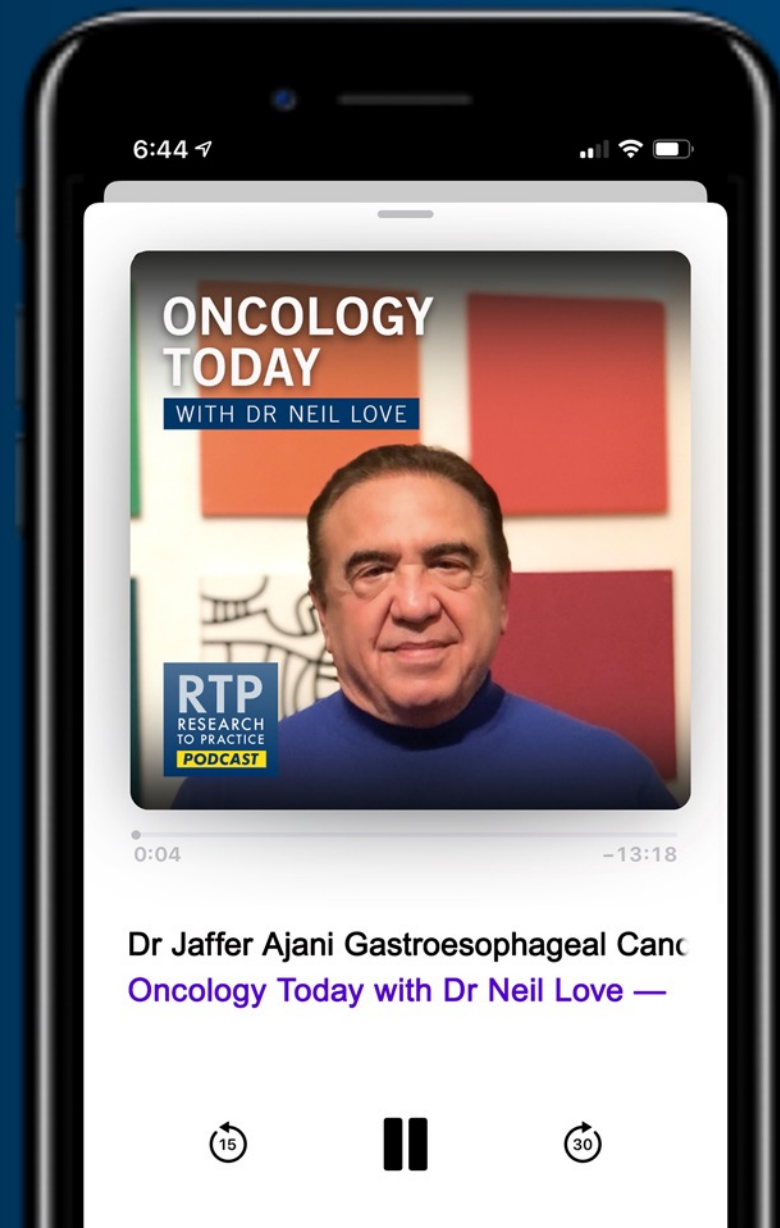
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# ASCO 2021 Colorectal and Gastroesophageal Cancers Presentation Library



## Selection and Sequencing of Treatment for Advanced Gastroesophageal Cancers

Zev Wainberg, MD, MSc

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## Recent Advances in the Management of HER2-Positive Advanced Gastric Cancer; Other Promising Targeted Strategies

Eric Van Cutsem, MD, PhD

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## Incorporation of Immunotherapy and HER2-Targeted Therapy into the Management of Metastatic Colorectal Cancer (mCRC)

Dustin Deming, MD

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## Other Considerations in the Treatment of mCRC: Cytotoxics, Biologics and RAS/RAF-Targeted Therapies

Chloe E Atreya, MD, PhD

[Download Slides](#)

# Agenda

## Interdisciplinary Management of Gastrointestinal Cancers – Part 1

### Module 1: Advanced Gastroesophageal Cancers

- **Should an IO be added to chemotherapy as part of first-line treatment for metastatic upper GI (mUGI) cancers ?**
- **What is the optimal IO to add to chemotherapy as first-line treatment for mUGI cancers?**
- **Should patients receiving neoadjuvant chemoradiation therapy for esophageal cancer be offered adjuvant nivolumab if there is residual disease?**
- **What is the optimal first- and second-line treatment for HER2-positive mUGI cancers, and does this vary based on combined positive score?**

# Agenda

## Interdisciplinary Management of Gastrointestinal Cancers – Part 2

### Module 2: Metastatic Colorectal Cancer (mCRC)

- What is the optimal first-line systemic treatment for RAS/BRAF wild-type mCRC in a symptomatic and an asymptomatic patient, and does this vary by side of the primary tumor?
- What is the optimal first-line treatment for MSI-high mCRC?
- What is the optimal targeted treatment for BRAF-mutated mCRC, and in which line of therapy should it be used?
- What is your preferred sequencing of EGFR TKIs, TAS-102 (+/- bevacizumab) and regorafenib?
- What is your preferred sequencing of therapies for HER2-positive mCRC, including T-DXd?

# Agenda

## Interdisciplinary Management of Gastrointestinal Cancers – Part 1

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# Should an IO be added to chemotherapy as part of first-line treatment for mUGI cancers?



**Dr Tanios Bekaii-Saab**



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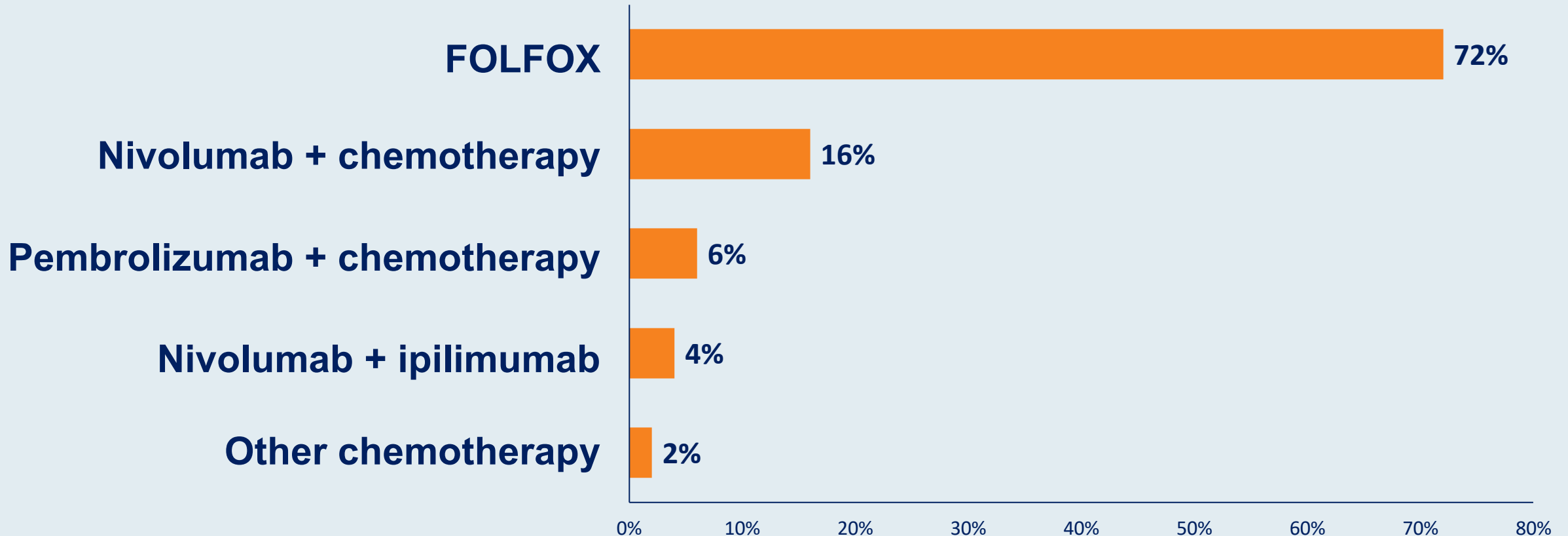


**Dr Philip Philip**











**Dr Kim Reiss Binder**

Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-negative, microsatellite-stable (MSS) adenocarcinoma of the gastroesophageal junction (GEJ) with a PD-L1 combined positive score (CPS) of 0?

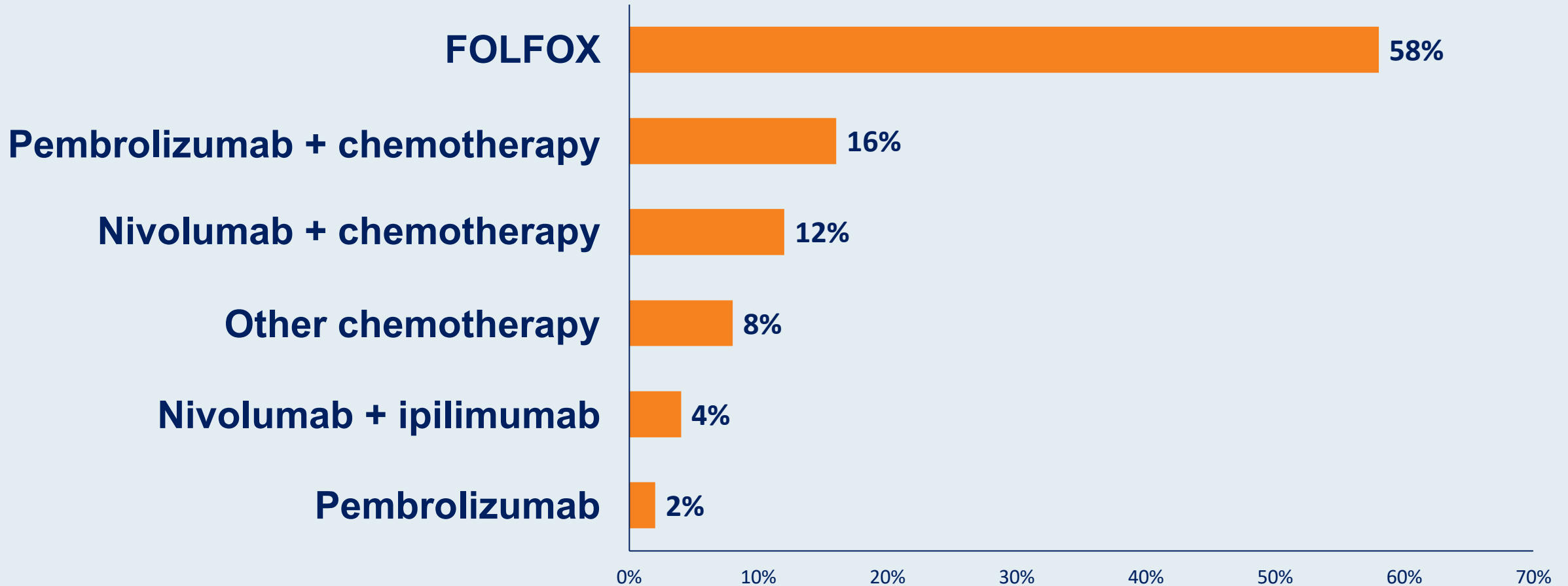












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 <b>Dr Deming</b>	<b>FOLFOX</b>	 <b>Dr O'Reilly</b>	<b>FOLFOX</b>
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 <b>Prof Van Cutsem</b>	<b>Pembrolizumab + chemotherapy or Nivolumab + chemotherapy</b>	 <b>Dr Philip</b>	<b>Pembrolizumab + chemotherapy</b>
 <b>Dr Wainberg</b>	<b>Pembrolizumab + chemotherapy or Nivolumab + chemotherapy</b>	 <b>Dr Reiss Binder</b>	<b>FOLFOX</b>

# What is the optimal IO to add to chemotherapy as first-line treatment for mUGI cancers?



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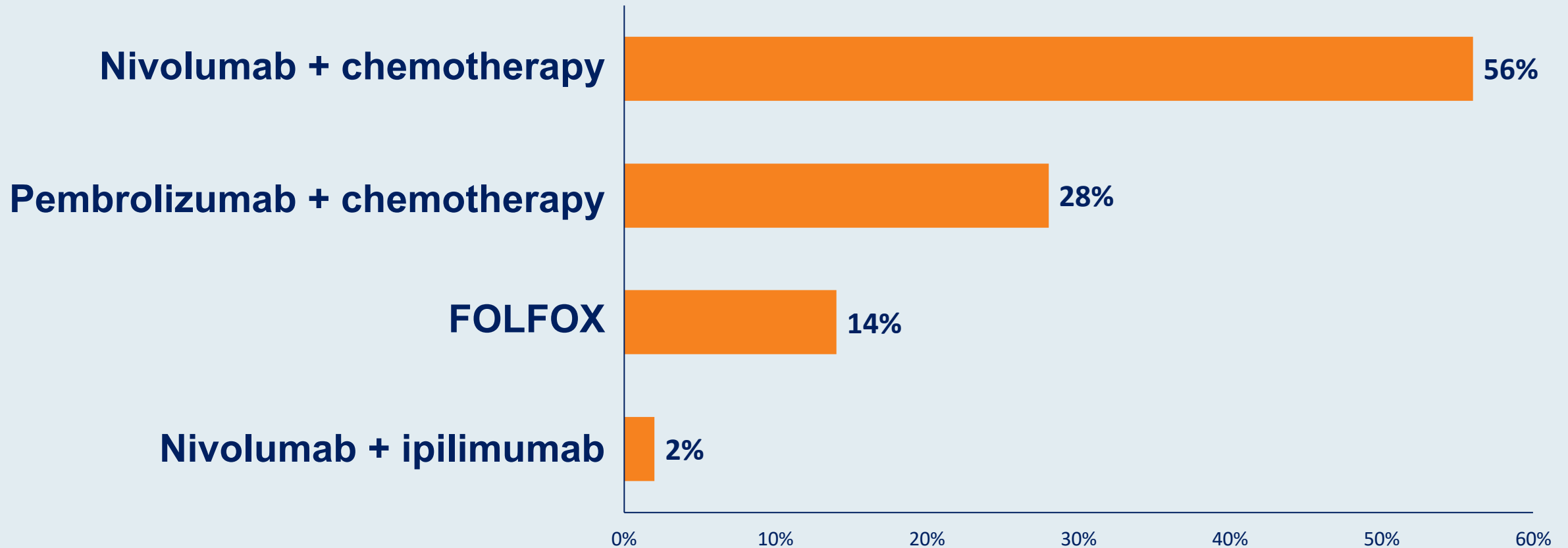


**Dr Philip Philip**











**Dr Kim Reiss Binder**

Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-negative, MSS adenocarcinoma of the GEJ with a PD-L1 CPS of 5?

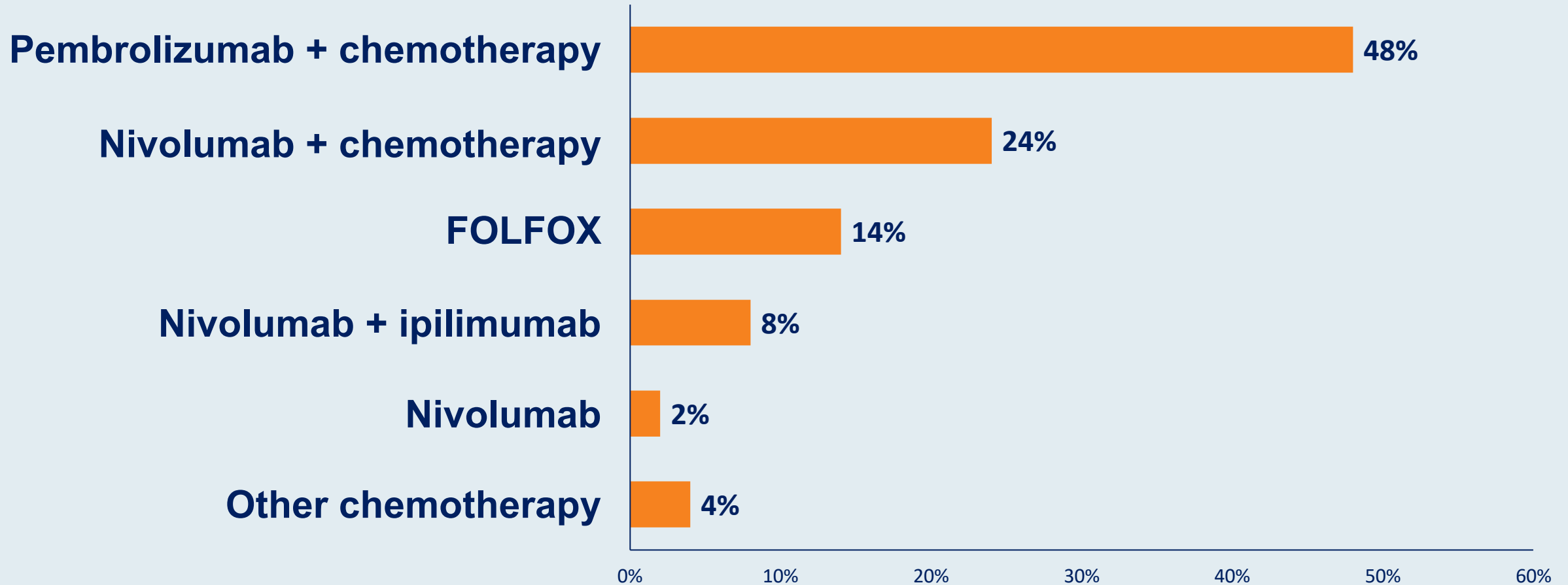




Regulatory and reimbursement issues aside, what first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-negative, MSS adenocarcinoma of the GEJ with a PD-L1 CPS of 5?

 <b>Dr Atreya</b>	<b>Nivolumab + chemotherapy</b>	 <b>Dr Bekaii-Saab</b>	<b>Pembrolizumab + chemotherapy</b>
 <b>Dr Deming</b>	<b>Pembrolizumab + chemotherapy or Nivolumab + chemotherapy</b>	 <b>Dr O'Reilly</b>	<b>Nivolumab + chemotherapy</b>
 <b>Prof Van Cutsem</b>	<b>Nivolumab + chemotherapy</b>	 <b>Dr Philip</b>	<b>Nivolumab + chemotherapy</b>
 <b>Dr Wainberg</b>	<b>FOLFOX</b>	 <b>Dr Reiss Binder</b>	<b>Nivolumab + chemotherapy</b>

Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-negative, MSS squamous cell carcinoma of the esophagus with a PD-L1 CPS of 5?



Regulatory and reimbursement issues aside, what first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-negative, MSS squamous cell carcinoma of the esophagus with a PD-L1 CPS of 5?



**Dr Atreya**

**Nivolumab +  
chemotherapy**



**Dr Bekaii-Saab**

**Nivolumab +  
chemotherapy**



**Dr Deming**

**Nivolumab +  
chemotherapy**



**Dr O'Reilly**

**Nivolumab +  
chemotherapy**



**Prof Van  
Cutsem**

**Pembrolizumab +  
chemotherapy or Nivolumab  
+ chemotherapy**



**Dr Philip**

**Pembrolizumab +  
chemotherapy**



**Dr Wainberg**

**Pembrolizumab +  
chemotherapy or Nivolumab  
+ chemotherapy**



**Dr Reiss  
Binder**

**FOLFOX**



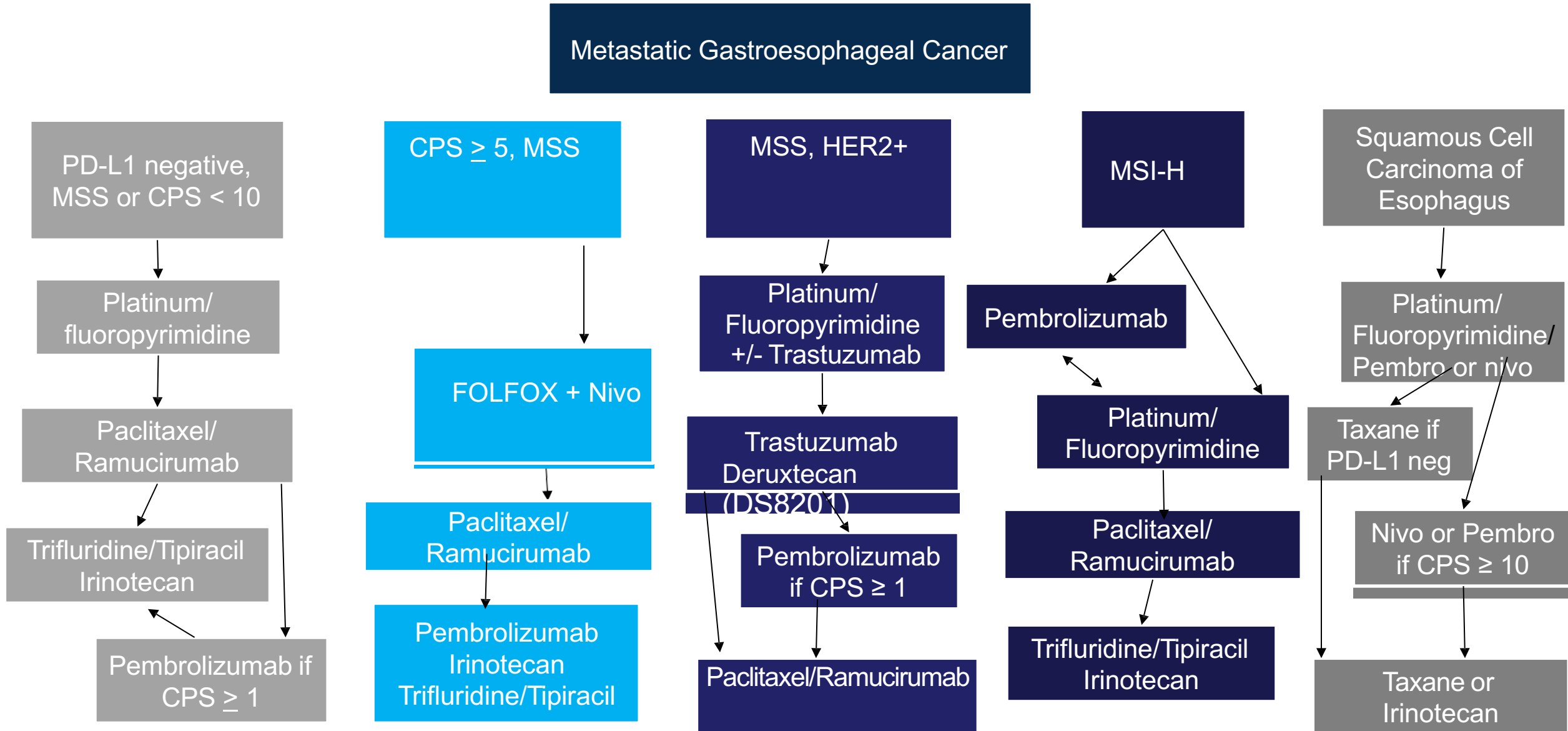
**Regulatory and reimbursement issues aside, what is the optimal first-line therapy for a patient with metastatic HER2-negative, microsatellite-stable (MSS) gastric/gastroesophageal junction (GEJ) adenocarcinoma, and how does PD-L1 CPS affect this decision?**

- Numerous studies have established fluoropyrimidine/platinum combinations as the optimal chemotherapy backbone for metastatic GEJ adenocarcinoma
- On the basis of recent studies (CheckMate 649, Janjigian et al, Lancet 2021, and KEYNOTE-590- ESMO 2020) demonstrating improvements in overall survival, the FDA has approved both nivolumab in combination with chemo and pembrolizumab for metastatic esophageal adenocarcinoma
- Because the studies primary endpoints were in CPS  $\geq 5$  (CheckMate 649) and CPS  $\geq 10$  (KEYNOTE-590), the majority of the benefit of both nivolumab and pembrolizumab is in these groups of patients
- The true benefit of PD-1 inhibitors in adenocarcinoma of the GEJ with CPS  $< 5$  is questionable and should be considered in select patients

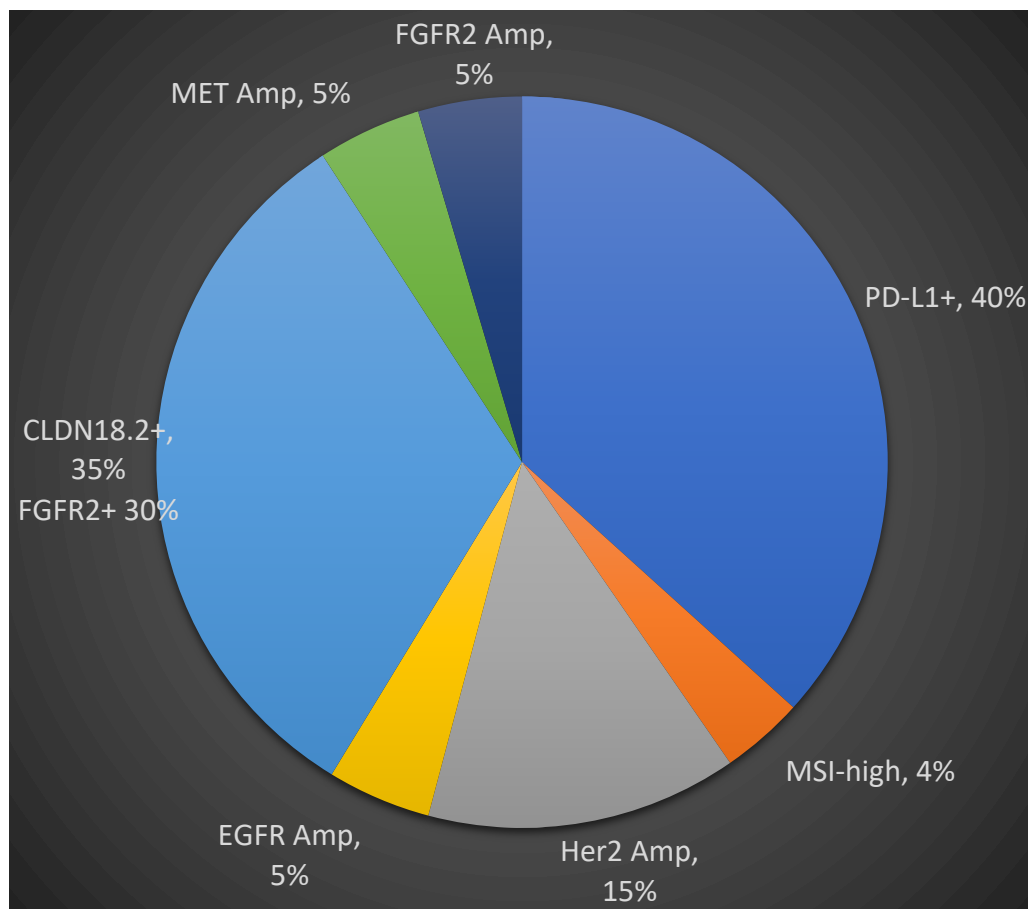
**Regulatory and reimbursement issues aside, what is the optimal first-line therapy for a patient with metastatic HER2-negative, microsatellite-stable (MSS) squamous cell carcinoma of the esophagus, and how does PD-L1 CPS affect this decision?**

- **On the basis of recent studies (CheckMate 648, ASCO 2020, and KEYNOTE-590-ESMO 2020) there is a clear role for both nivolumab and pembrolizumab in combination with chemotherapy for metastatic esophageal adenocarcinoma**
- **In the majority of studies with PD-1 inhibitors, there is likely greater benefit for PD-1 inhibitors in squamous cell carcinoma of the esophagus rather than adenocarcinoma**
- **In the CheckMate 648 study, in patients with PD-L1  $\geq 1\%$ , the benefit of nivo + chemo over chemo was greater than in PD-L1  $< 1\%$**
- **The true benefit of PD-1 inhibitors in squamous cell carcinoma of the esophagus CPS  $< 1$  is questionable and combinations with nivo and pembro should be considered in select patients**

# How to Treat Metastatic Gastroesophageal Cancer in 2021?



# Novel Biomarkers



## KEY MARKERS IN ADVANCED DISEASE

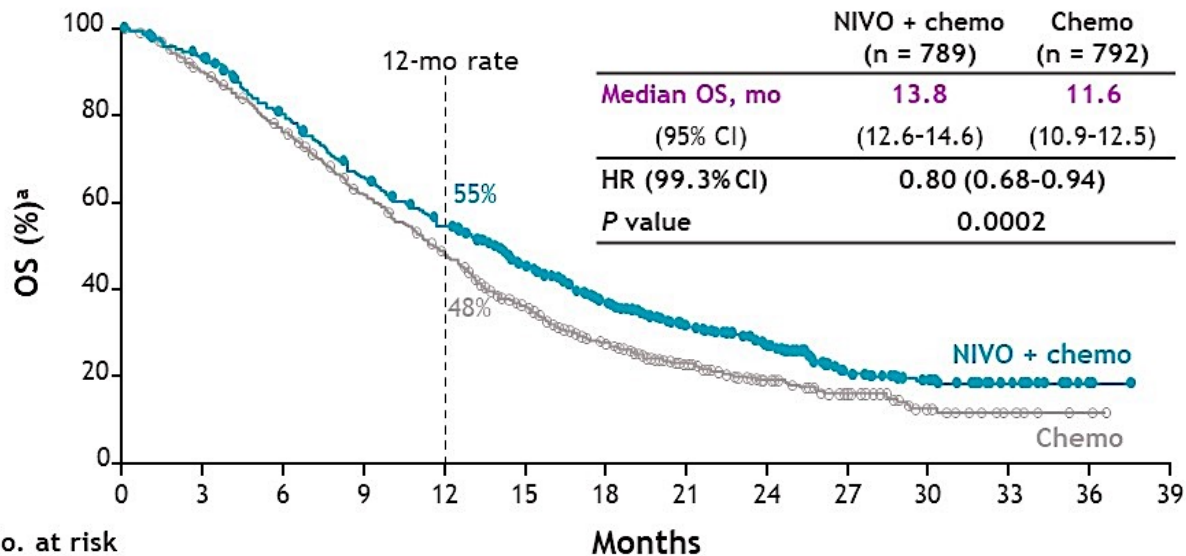
- **HER2** positive – 15-20% of patients, improved survival with chemo + trastuzumab and in 2<sup>nd</sup> line with trastuzumab deruxtecan (DS8201)
- **MSI** high – 3-5% of patients, high response rates and survival with PD-1 inhibitors
- **PD-L1** positive – 30-50% of patients, identifies those more likely to benefit from immune therapies, likely graduation within PD-L1+

## INVESTIGATIONAL BIOMARKERS

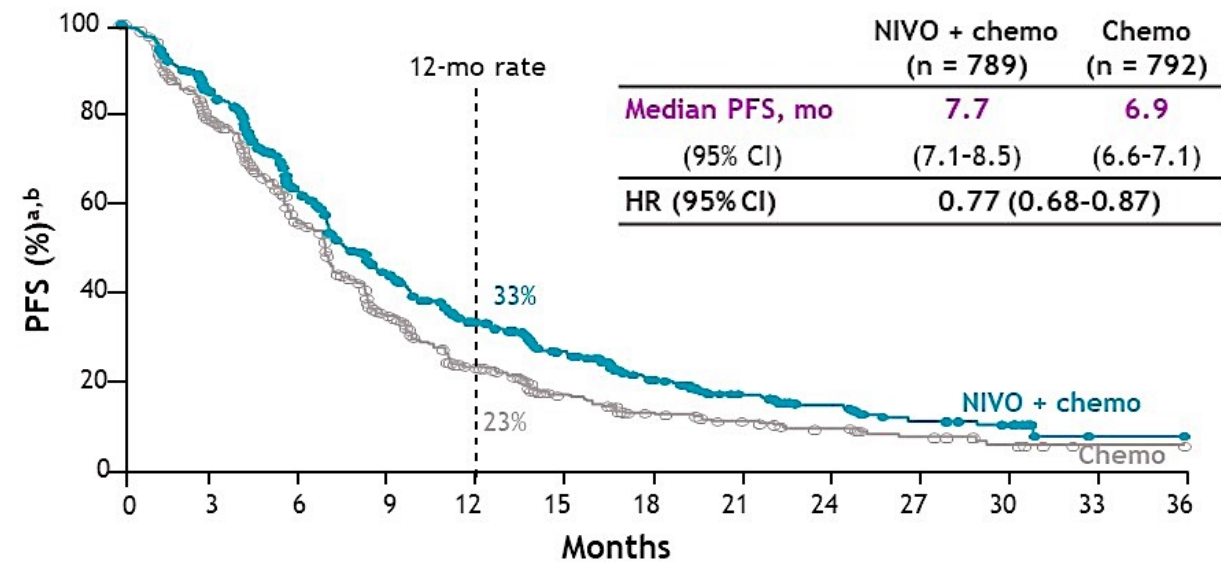
- **CLDN18.2** high – 30-35% of patients, response predictor for zolbetuximab (FAST Trial, Sahin et al, Ann of Onc 2021)
- **FGFR2** + (IHC) 30% of patients, response predictor for bemarituzumab (FIGHT Trial, Wainberg et al, GI ASCO 2021)
- **FGFR2** amp – 5-7%, predicts response to bemarituzumab

# CheckMate 649: Overall survival and progression-free survival in all randomized patients

## Overall survival



## Progression-free survival



No. at risk	Months													
	0	3	6	9	12	15	18	21	24	27	30	33	36	39
<b>NIVO + chemo</b>	789	731	621	506	420	308	226	147	100	49	34	14	2	0
<b>Chemo</b>	792	697	586	469	359	239	160	94	59	35	15	7	2	0

No. at risk	Months													
	0	3	6	9	12	15	18	21	24	27	30	33	36	
<b>NIVO + chemo</b>	789	639	429	287	197	136	83	51	31	15	11	1	0	
<b>Chemo</b>	792	544	351	202	120	65	38	28	18	12	6	1	0	

- Superior OS benefit and clinically meaningful PFS improvement in all randomized patients with NIVO + chemo vs chemo
- Median OS with NIVO + chemo vs chemo in patients with PD-L1 CPS  $\geq 5$  was 14.4 vs 11.1 months and median PFS was 7.7 vs 6.0 months<sup>1</sup>

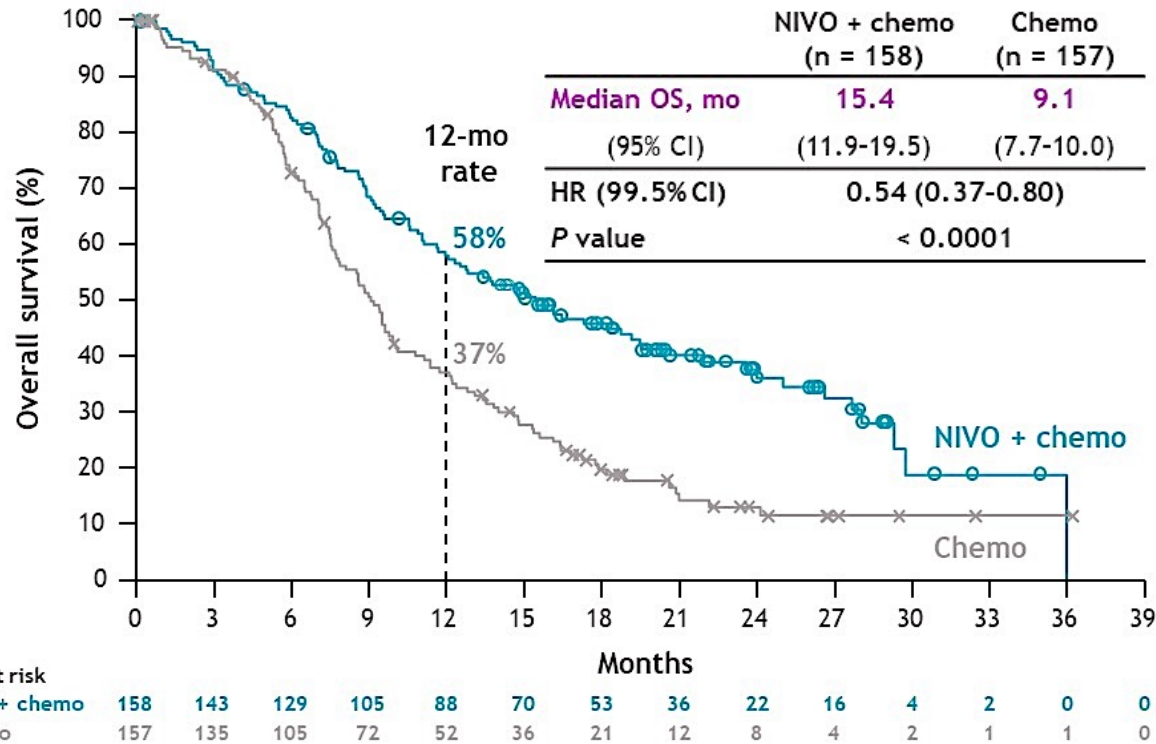
<sup>a</sup>Minimum follow-up, 12.1 months; <sup>b</sup>Per BICR assessment.

1. Moehler M, et al. Oral presentation at the ESMO Virtual Annual Meeting; September 19-21, 2020. Presentation LBA6.

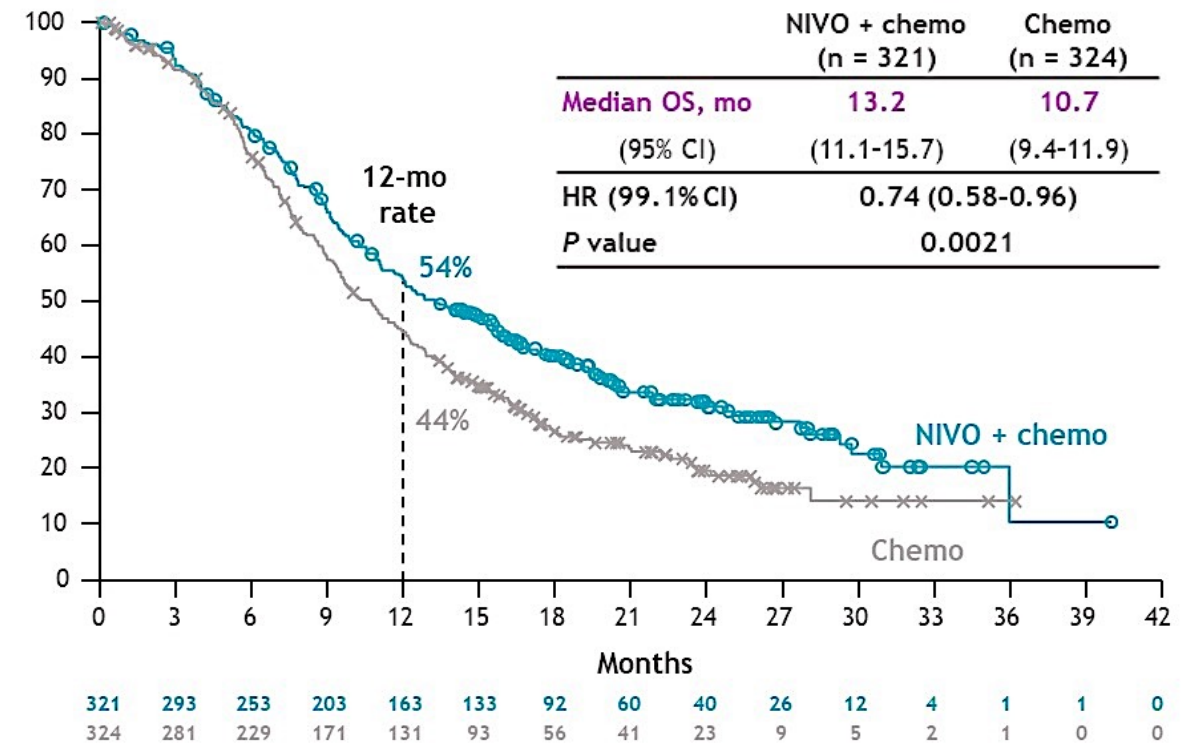


# CheckMate 648: Overall survival with NIVO + chemo vs chemo

Primary endpoint (tumor cell PD-L1  $\geq 1\%$ )<sup>a</sup>



All randomized<sup>a</sup>



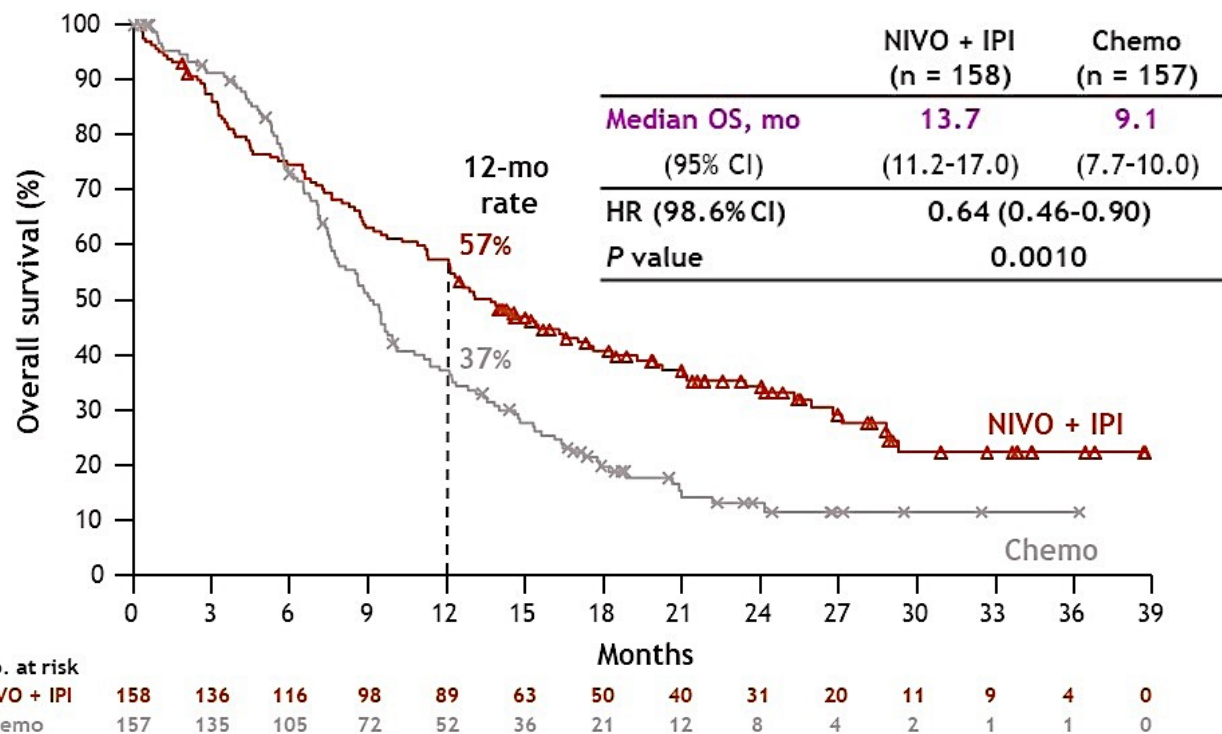
- Superior OS with NIVO + chemo vs chemo in tumor cell PD-L1  $\geq 1\%$  and all randomized populations
  - Tumor cell PD-L1  $\geq 1\%$ : 46% reduction in the risk of death and a 6.3-month improvement in median OS
  - All randomized: 26% reduction in the risk of death and a 2.5-month improvement in median OS

<sup>a</sup>Minimum follow-up 12.9 months.

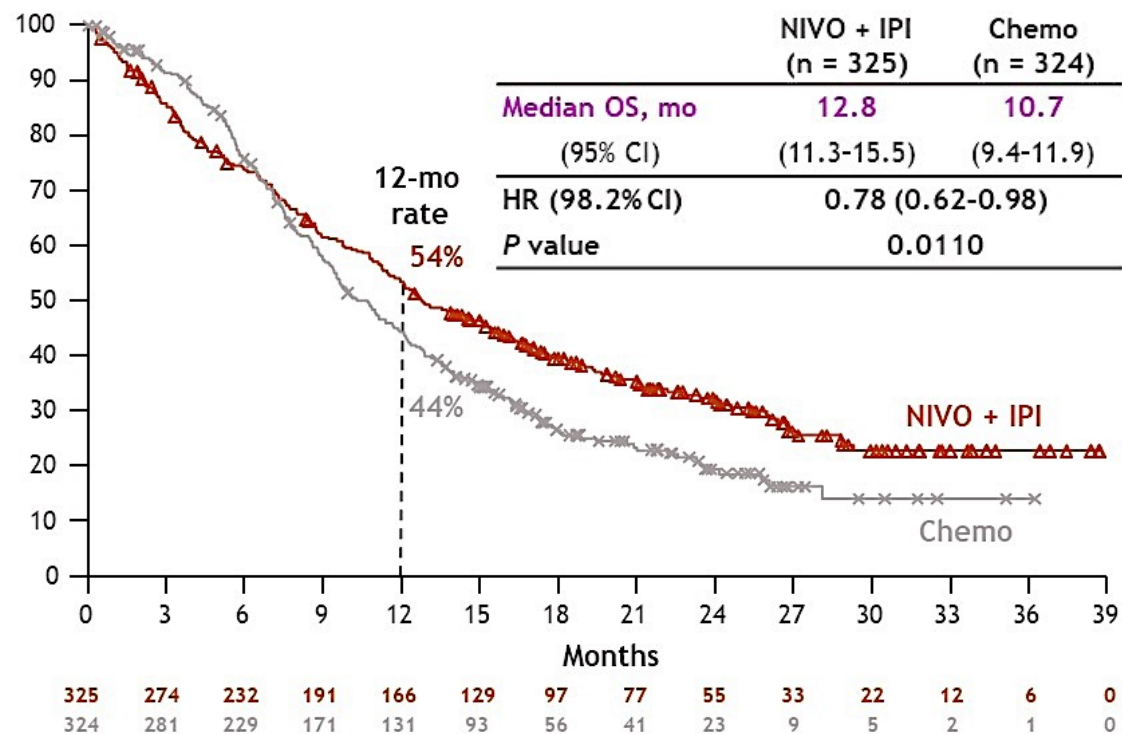
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# CheckMate 648: Overall survival with NIVO + IPI vs chemo

Primary endpoint (tumor cell PD-L1  $\geq$  1%)<sup>a</sup>



All randomized<sup>a</sup>



- Superior OS with NIVO + IPI vs chemo in tumor cell PD-L1  $\geq$  1% and all randomized populations
  - Tumor cell PD-L1  $\geq$  1%: 36% reduction in the risk of death and a 4.6-month improvement in median OS
  - All randomized: 22% reduction in the risk of death and a 2.1-month improvement in median OS

<sup>a</sup>Minimum follow-up 12.9 months.

# Should patients receiving neoadjuvant chemoradiation therapy for esophageal cancer be offered adjuvant nivolumab if there is residual disease?



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**



**Dr Philip Philip**



**Dr Kim Reiss Binder**



Have you administered or would you administer adjuvant nivolumab outside of a clinical trial setting to a patient with esophageal or GEJ cancer who receives neoadjuvant chemoradiation therapy and is found to have a pathologic complete response at surgery?



**Dr Atreya**

**I have not but would for the right patient**



**Dr Bekaii-Saab**

**I have not but would for the right patient**



**Dr Deming**

**I have not but would for the right patient**



**Dr O'Reilly**

**I have not but would for the right patient**



**Prof Van Cutsem**

**I have not and would not**



**Dr Philip**

**I have not and would not**



**Dr Wainberg**

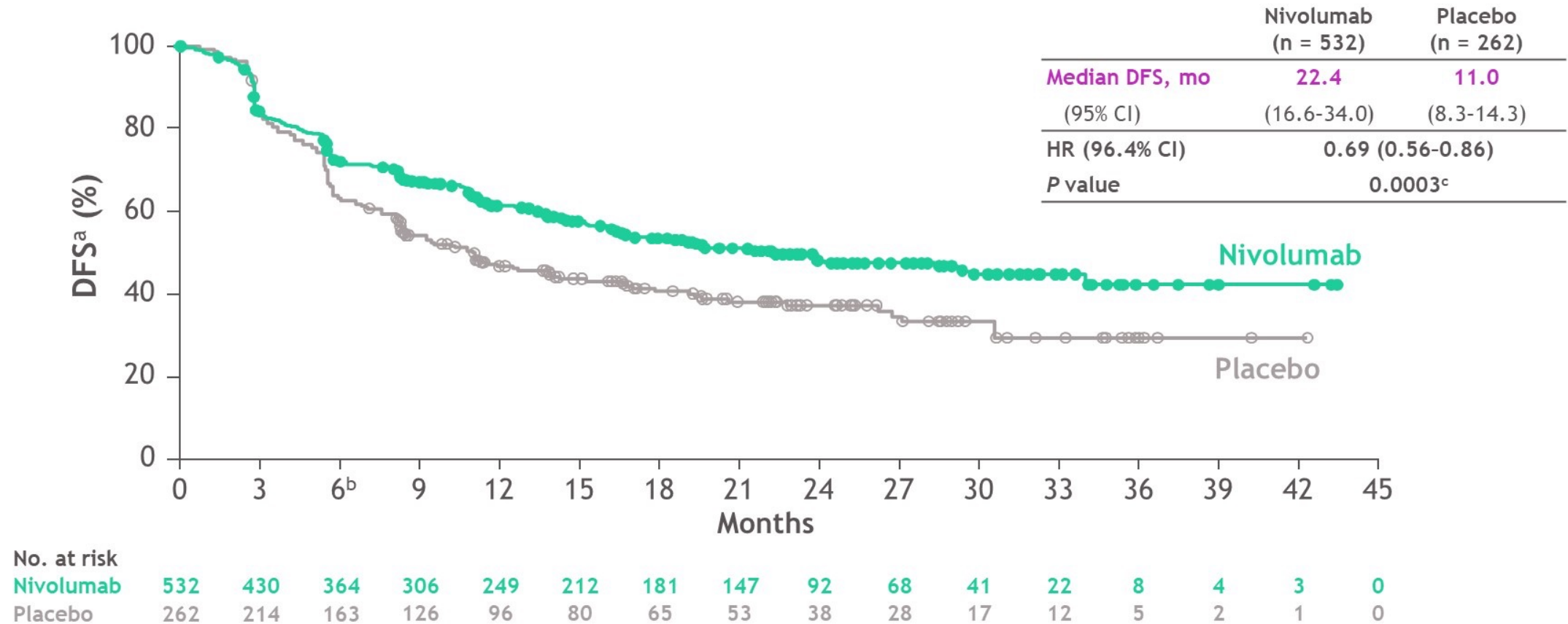
**I have not but would for the right patient**



**Dr Reiss Binder**

**I have not and would not**

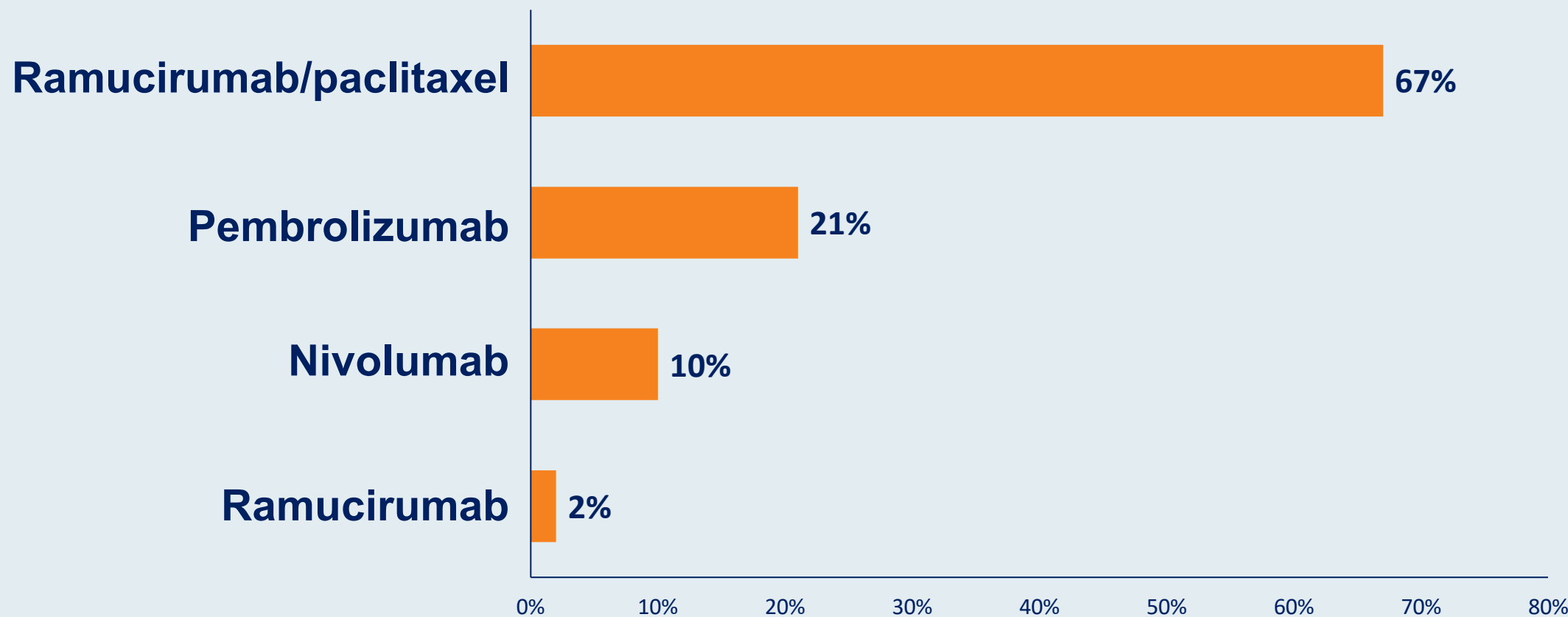
# CheckMate 577: Disease-free survival (DFS)



- Nivolumab provided superior DFS with a 31% reduction in the risk of recurrence or death and a doubling in median DFS versus placebo

<sup>a</sup>Per investigator assessment; <sup>b</sup>6-month DFS rates were 72% (95% CI, 68-76) in the nivolumab arm and 63% (95% CI, 57-69) in the placebo arm; <sup>c</sup>The boundary for statistical significance at the prespecified interim analysis required the P value to be less than 0.036.  
Kelly RJ, et al. *N Engl J Med* 2021;384:1191-1203.

Regulatory and reimbursement issues aside, what would you currently recommend as second-line therapy for a patient with metastatic HER2-negative, MSS adenocarcinoma of the GEJ (PD-L1 CPS  $\geq 1$ ) who has experienced disease progression on first-line FOLFOX?



Regulatory and reimbursement issues aside, what would you currently recommend as second-line therapy for a patient with metastatic HER2-negative, MSS adenocarcinoma of the GEJ (PD-L1 CPS  $\geq 1$ ) who has experienced disease progression on first-line FOLFOX?



**Dr Atreya**

**Pembrolizumab**



**Dr Bekaii-Saab**

**Ramucirumab/  
paclitaxel**



**Dr Deming**

**Ramucirumab/  
paclitaxel**



**Dr O'Reilly**

**Ramucirumab/  
paclitaxel**



**Prof Van  
Cutsem**

**Ramucirumab/  
paclitaxel**



**Dr Philip**

**Ramucirumab/  
paclitaxel**



**Dr Wainberg**

**Pembrolizumab**



**Dr Reiss  
Binder**

**Ramucirumab/  
paclitaxel**

**Regulatory and reimbursement issues aside, what is the optimal second-line therapy for a patient with metastatic HER2-negative, MSS gastric/GEJ adenocarcinoma who experiences disease progression on first-line FOLFOX? What if the patient has experienced disease progression on first-line FOLFOX/nivolumab? How, if at all, does PD-L1 CPS affect this decision?**

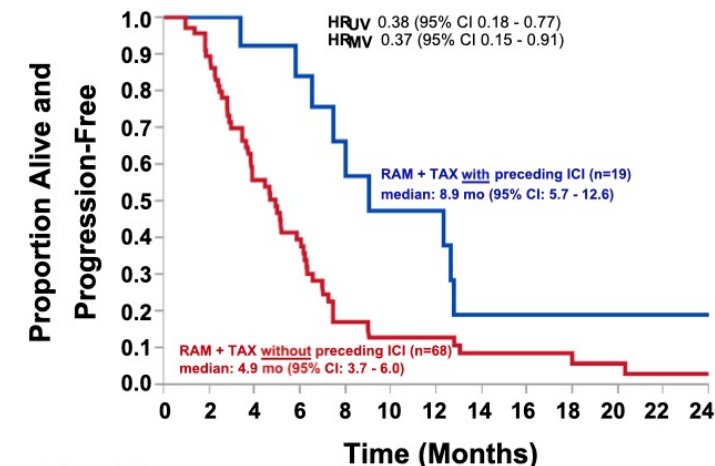
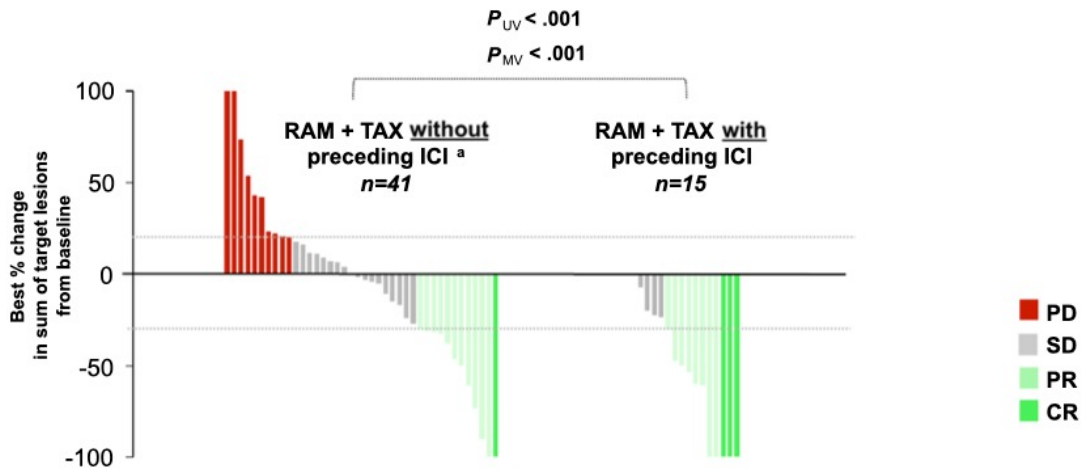
- In patients with 2<sup>nd</sup>-line MSS gastric/GEJ HER2-negative adenocarcinoma, there is no clear role for PD-1 inhibitors regardless of PD-L1 score
- The RAINBOW trial (Wilke et al, Lancet 2014) established a regimen of paclitaxel/ramucirumab if a patient progresses on front line therapy (FOLFOX among others)
- There have been no large 2<sup>nd</sup>-line studies in patients who progress on FOLFOX/nivo, so the standard of paclitaxel/ramucirumab is still appropriate
- We have no data to support a role for any PD-1 inhibitor after they have progressed on front line chemo/PD-1 inhibitor combination therapy in gastric/GEJ adenocarcinoma
- The FDA has withdrawn the indication for 3<sup>rd</sup>-line pembrolizumab in CPS  $\geq 1$
- If a patient with metastatic gastric/GEJ adenocarcinomas has a CPS  $> 5$  and is anti-PD-1 antibody-naïve, either nivolumab or pembrolizumab should be considered (ATTRACTION 3-Nivo, KEYNOTE-059-pembro)

## How are you currently integrating TAS-102 into your clinical algorithms for metastatic gastric/GEJ cancers? In which line of therapy do you generally use this drug? How, if at all, is this impacted by PD-L1 status?

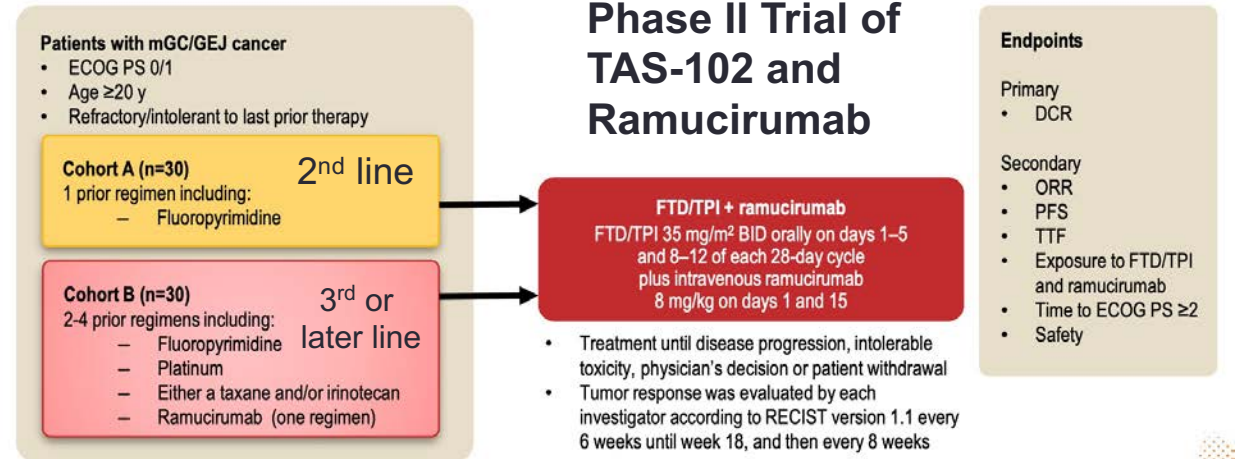
- TAS-102 (trifluridine/tipiracil) is indicated in fit patients with good organ function, regardless of molecular markers, failing cytotoxic therapy (including 5FU, oxaliplatin, docetaxel/paclitaxel, irinotecan combinations).
  - In patients with a HER2-positive tumors, prior treatments should have included trastuzumab and trastuzumab deruxtecan.
  - In patients with a PD-L1 CPS >5 positive tumor, prior treatments (first line) should have included nivolumab in combination FOLFOX in first line
  - Ramucirumab is usually added to cytotoxics in second line, in HER2-negative patients
  - In patients with a MSI-H tumor, prior treatments included pembrolizumab
- So this means in reality: TAS-102 is indicated in third or fourth line (TAGS study)
- The integration of TAS-102 is regardless of molecular markers in third/fourth line



# The efficacy of Ramucirumab may be enhanced by the preceding ICI in mGC



Patients-at-Risk	0	2	4	6	8	10	12	14	16	18	20	22	24
ICI-RAMTAX	19	18	12	10	6	5	5	2	2	1	1	1	1
RAMTAX	68	56	31	20	9	6	6	3	3	2	2	1	1



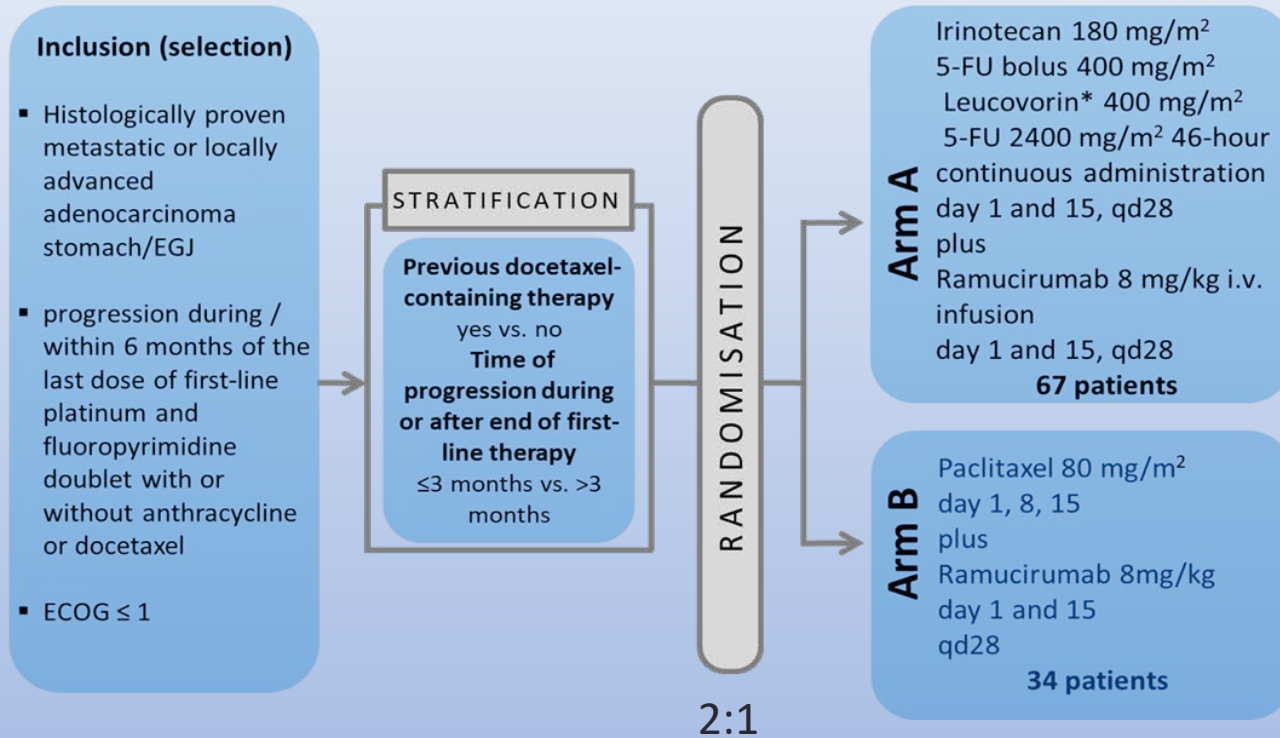
	Cohort A (n=33)		Cohort B (n=31)	
	Previous use (n=7)	No previous use (n=26)	Previous use (n=15)	No previous use (n=16)
Overall response rate*	2 (29%, 4-71)	1 (4%, 0-20)	5 (33%, 12-62)	0 (0%, 0-21)
Disease control rate†	7 (100%, 59-100)	21 (81%, 61-93)	10 (67%, 38-88)	14 (88%, 62-98)
Progression-free survival, months	6.1 (4.1-NA)	5.3 (3.6-7.9)	5.4 (1.4-NA)	5.0 (2.1-6.1)
Event	3 (43%)	15 (58%)	9 (60%)	12 (75%)
Censored	4 (57%)	11 (42%)	6 (40%)	4 (25%)

Data are n (%), 95% CI, n (95% CI), or n (%). NA=not available. \*Complete response plus partial response. †Complete response plus partial response plus stable disease.

**Table 3: Antitumour endpoints according to previous use of an immune checkpoint inhibitor (full analysis set)**

# FOLFIRI and Ramucirumab: A Non-Taxane Option

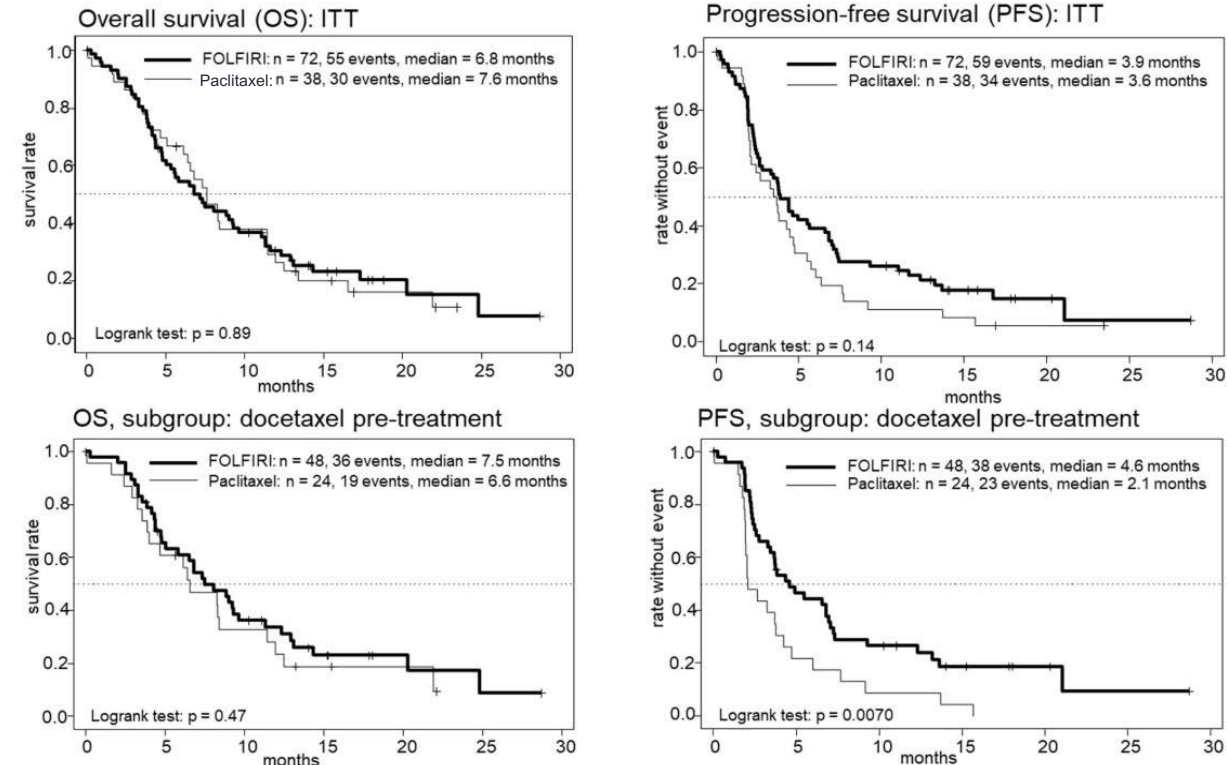
## Phase II RAMIRIS Trial



**Table 3: Objective Response Rate (ORR) and Disease Control Rate (DCR)**

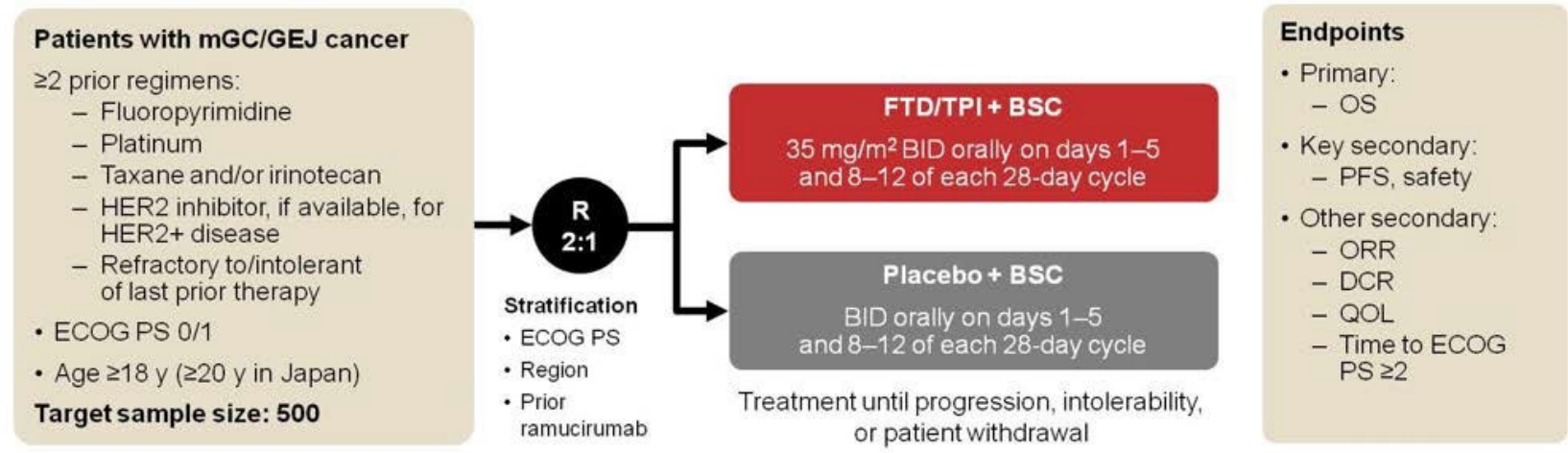
Event	FOLFIRI+ Ramucirumab	Paclitaxel+ Ramucirumab
ORR %	22% (16/72)	11% (4/38)
ORR % in Docetaxel pre-treated pts	25% (12/48)	8% (2/24)
DCR %	61% (44/72)	58% (21/38)
DCR % in Docetaxel pre-treated pts	65% (31/48)	37% (9/24)

**Figure 2: Overall and Progression-free Survival**





# TAGS – Multicenter, Randomized, Double-blind, Phase 3 Study



	Trifluridine/Tipiracil	Placebo	P value
Overall Survival	5.7 months	3.6 months	P=0.00058
	HR 0.69 (95% CI 0.56-0.85)		
12-month OS	21%	13%	
Progression-Free Survival	2.0 months	1.8 months	P< 0.0001
	HR 0.57 (95% CI 0.47-0.70)		
6-month PFS	15%	6%	
Overall Response Rate	4%	2%	P=0.28
Disease Control Rate	44%	14%	P<0.0001

Shitara et al Lancet Oncology  
2018, 19: 1427-1448

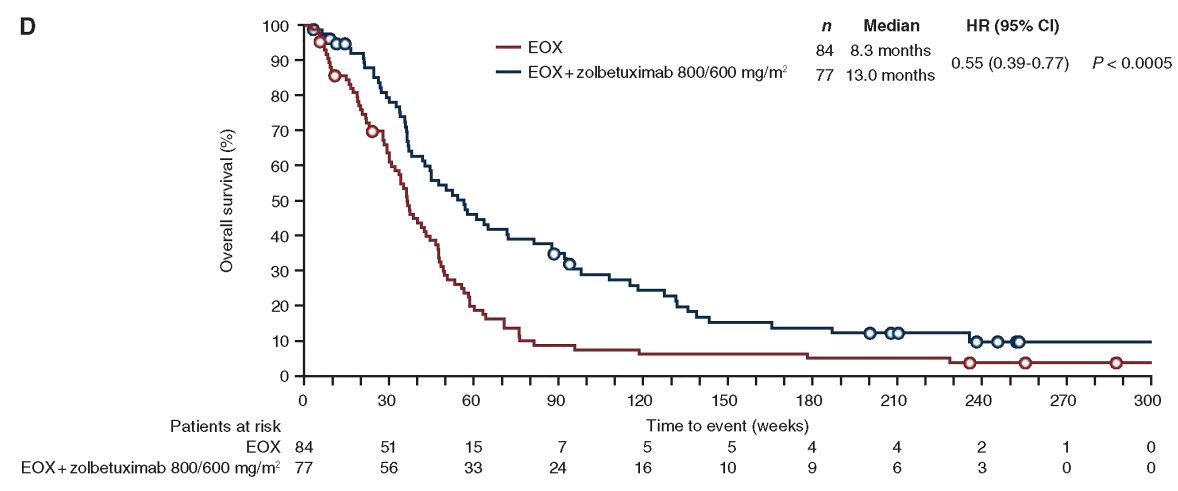
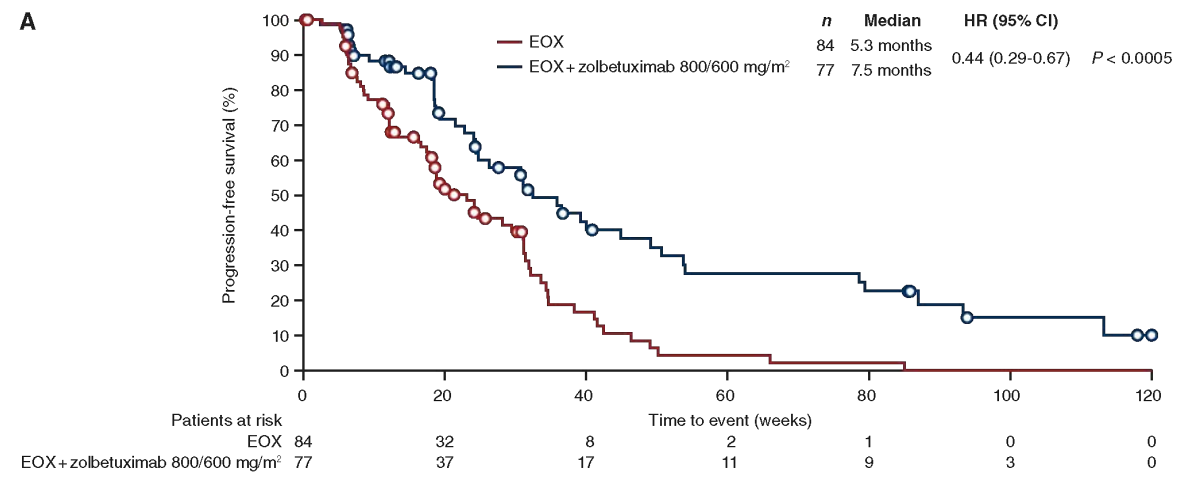
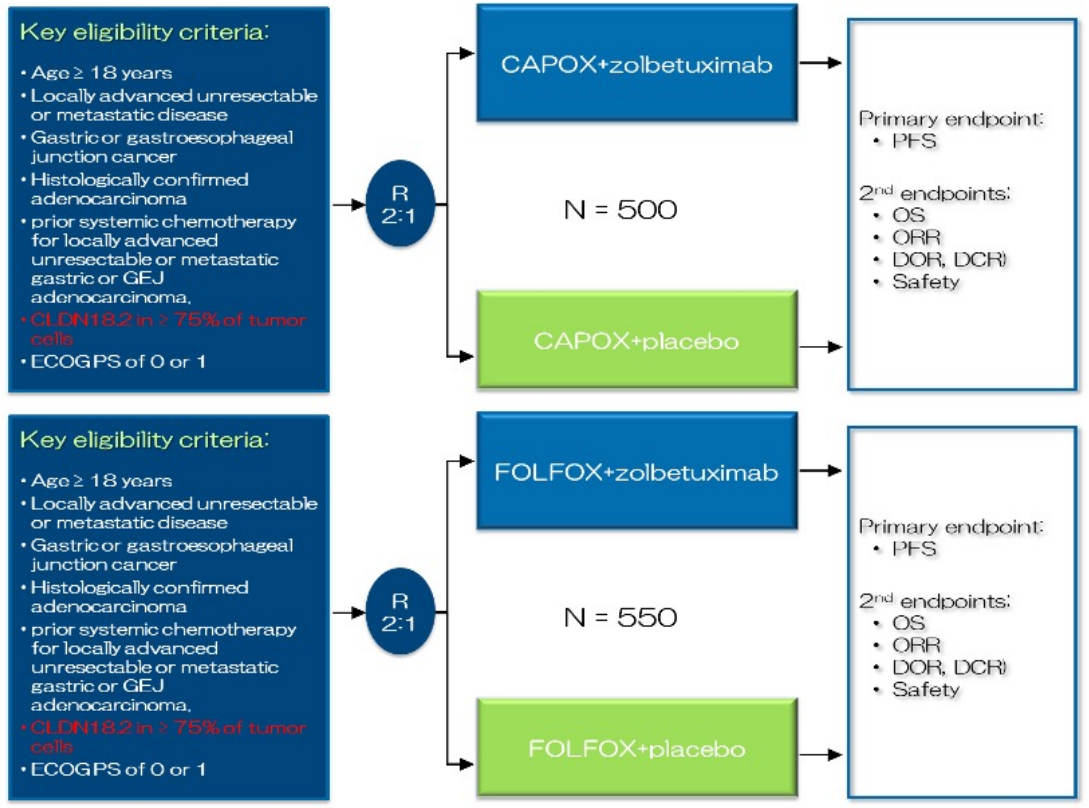
Courtesy of Zev Wainberg, MD, MSc

# How do we fight against mGC with CPS<5 ?

## CLDN18.2-Zolbetuximab

GLOW

Spotlight



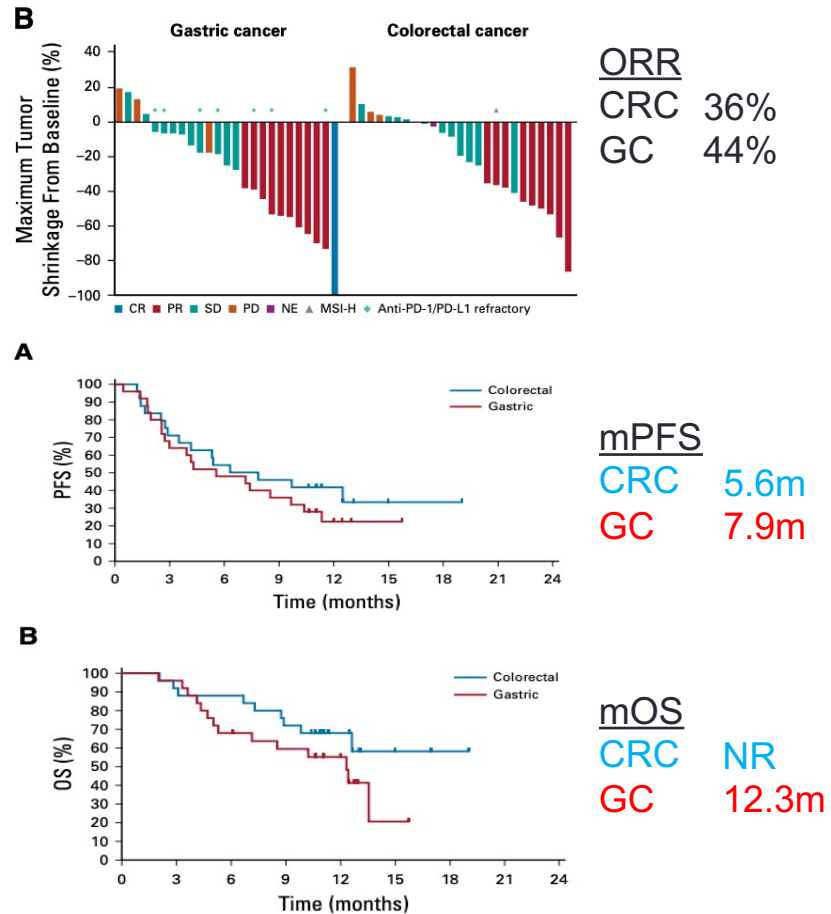
# Is chemotherapy the best partner of anti-PD-1 antibody?

Phase Ib

Regorafenib

Nivolumab

Standard treatment refractory  
GC/CRC, PS 0-1



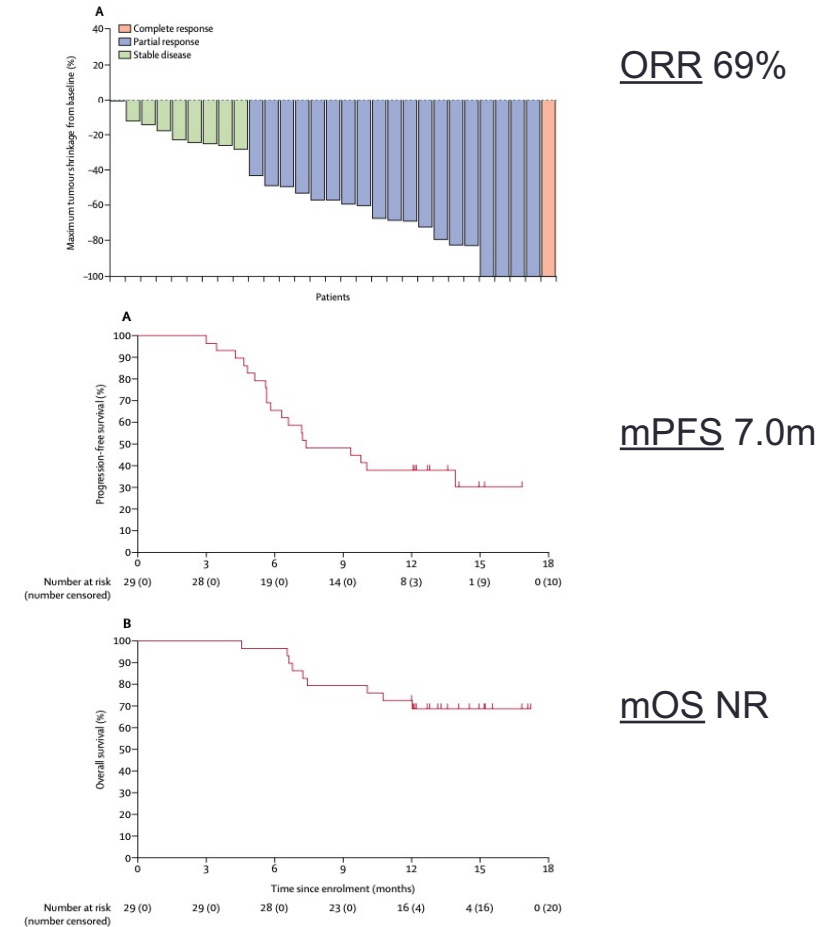
Fukuoka S, et al. *J Clin Oncol* 2020;38:2053–61.

Phase II

Lenvatinib

Pembrolizumab

Chemotherapy-naive or 1<sup>st</sup> line refractory  
GC, PS 0-1



Kawazoe A, et al. *Lancet Oncol* 2020;21:1057–65.

# What is the optimal first- and second-line treatment for HER2-positive mUGI cancers, and does this vary based on CPS?



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**

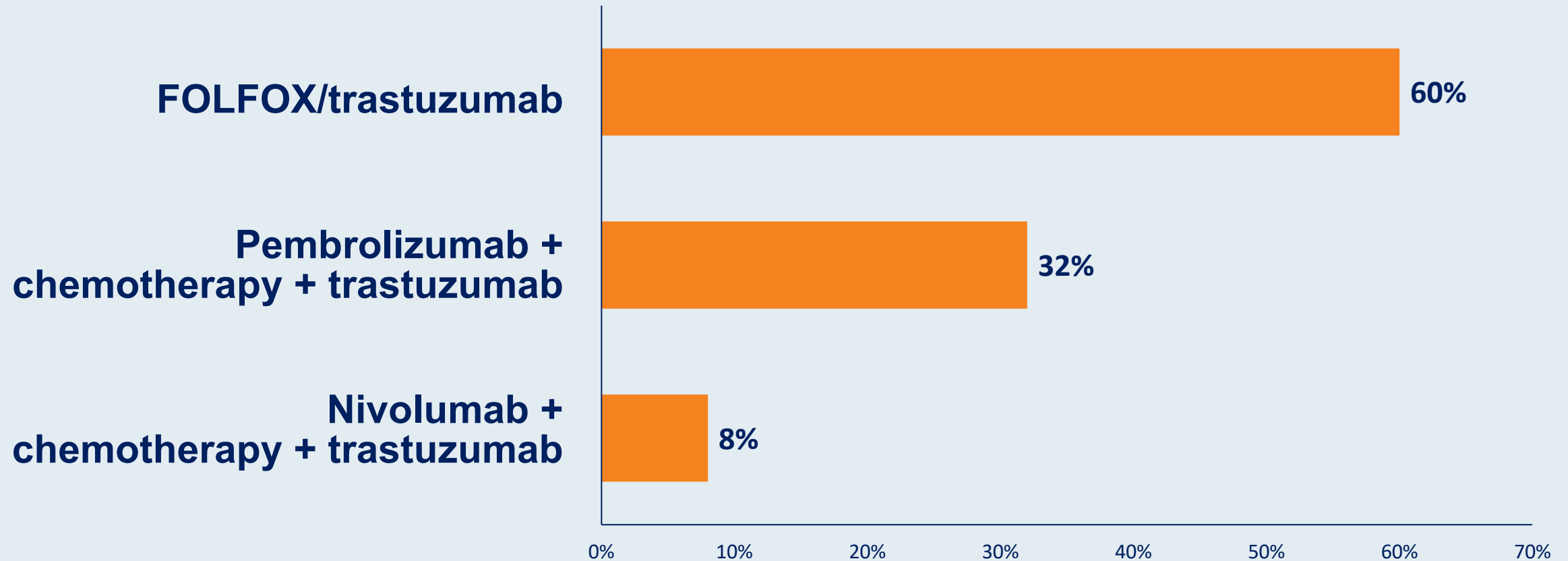


**Dr Philip Philip**



**Dr Kim Reiss Binder**

**Regulatory and reimbursement issues aside, which first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-positive, MSS adenocarcinoma of the GEJ (PD-L1 CPS <1)?**





# Regulatory and reimbursement issues aside, what first-line therapy would you recommend for a 65-year-old patient with metastatic HER2-positive, MSS adenocarcinoma of the GEJ (PD-L1 CPS <1)?



**Dr Atreya**

**FOLFOX/trastuzumab**



**Dr Bekaii-Saab**

**Pembrolizumab + chemotherapy + trastuzumab**



**Dr Deming**

**FOLFOX/trastuzumab**



**Dr O'Reilly**

**Pembrolizumab + chemotherapy + trastuzumab**



**Prof Van Cutsem**

**Pembrolizumab + chemotherapy + trastuzumab**



**Dr Philip**

**Pembrolizumab + chemotherapy + trastuzumab**



**Dr Wainberg**

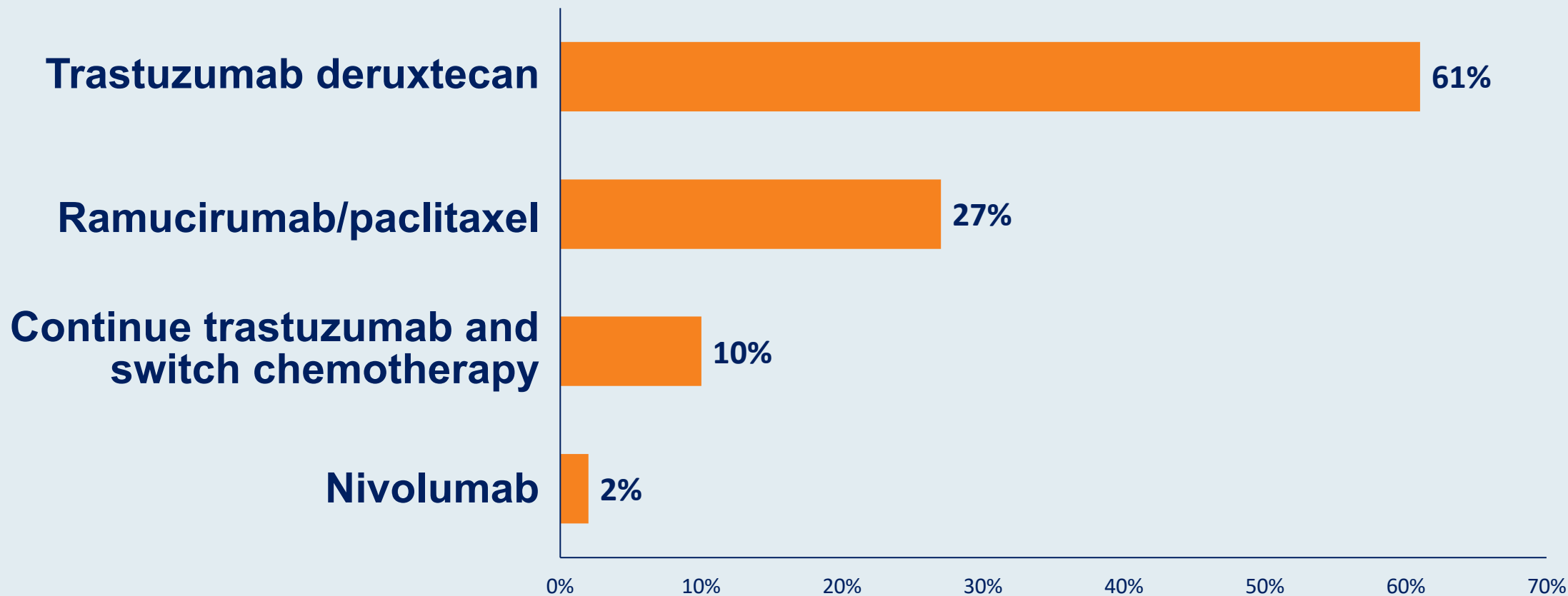
**Pembrolizumab + chemotherapy + trastuzumab**



**Dr Reiss Binder**

**FOLFOX/trastuzumab**

Regulatory and reimbursement issues aside, what would you currently recommend as second-line therapy for a patient with metastatic HER2-positive, MSS adenocarcinoma of the GEJ (PD-L1 CPS <1) with disease progression on FOLFOX/trastuzumab?





Regulatory and reimbursement issues aside, what would you currently recommend as second-line therapy for a patient with metastatic HER2-positive, MSS adenocarcinoma of the GEJ (PD-L1 CPS <1) with disease progression on FOLFOX/trastuzumab?



**Dr Atreya**

**Trastuzumab  
deruxtecan**



**Dr Bekaii-Saab**

**Trastuzumab  
deruxtecan**



**Dr Deming**

**Trastuzumab  
deruxtecan**



**Dr O'Reilly**

**Trastuzumab  
deruxtecan**



**Prof Van  
Cutsem**

**Trastuzumab  
deruxtecan**



**Dr Philip**

**Trastuzumab  
deruxtecan**



**Dr Wainberg**

**Trastuzumab  
deruxtecan**



**Dr Reiss  
Binder**

**Trastuzumab  
deruxtecan**

## **Regulatory and reimbursement issues aside, what is the optimal first-line therapy for a patient with metastatic HER2-positive, MSS gastric/GEJ adenocarcinoma?**

- The recent new standard of care in fit patients with good organ function is chemo doublet + trastuzumab + pembrolizumab
- The data of KEYNOTE-811 are practice-changing, although it is only a preplanned interim analysis on RR, and data on OS and PFS are still awaited
- Preferred chemo doublet in gastric cancer is FOLFOX; data say that CAPOX is also an option, although this is not my favourite combination

## Regulatory and reimbursement issues aside, in what line of therapy would you like to offer trastuzumab deruxtecan to your patients with HER2-positive gastric/GEJ cancer?

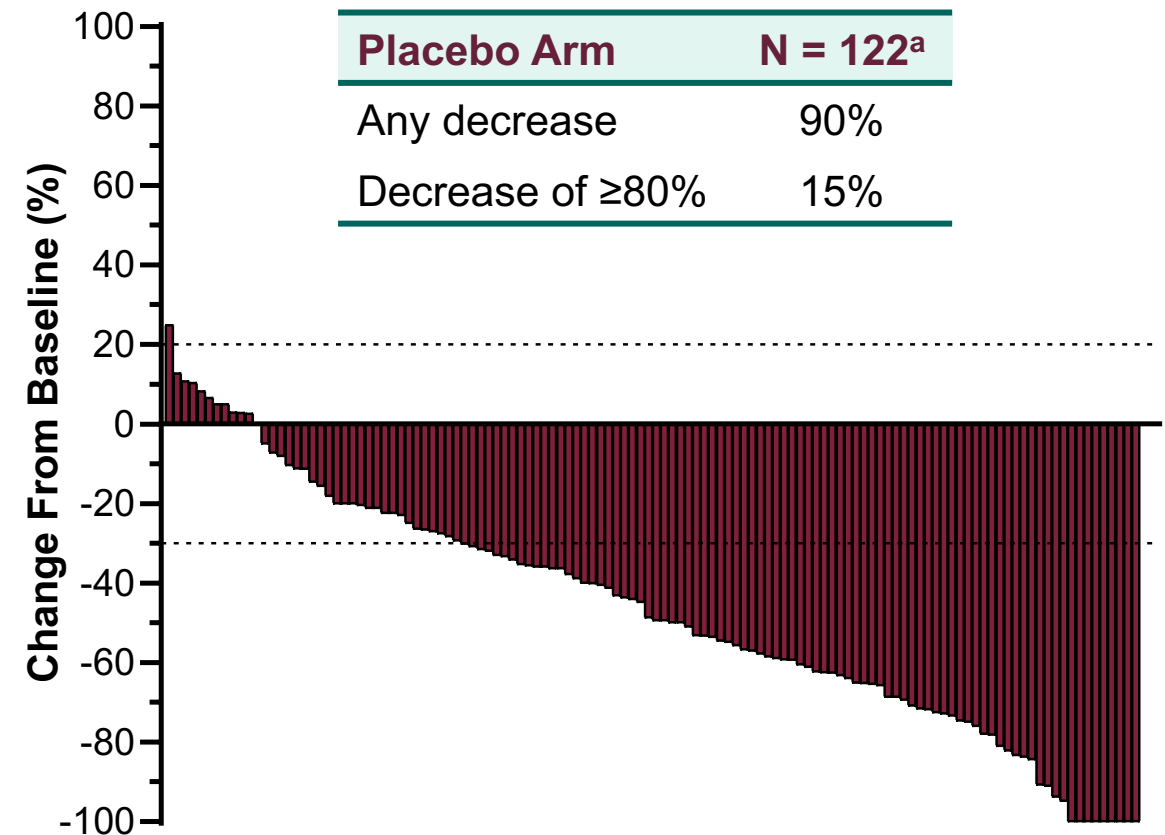
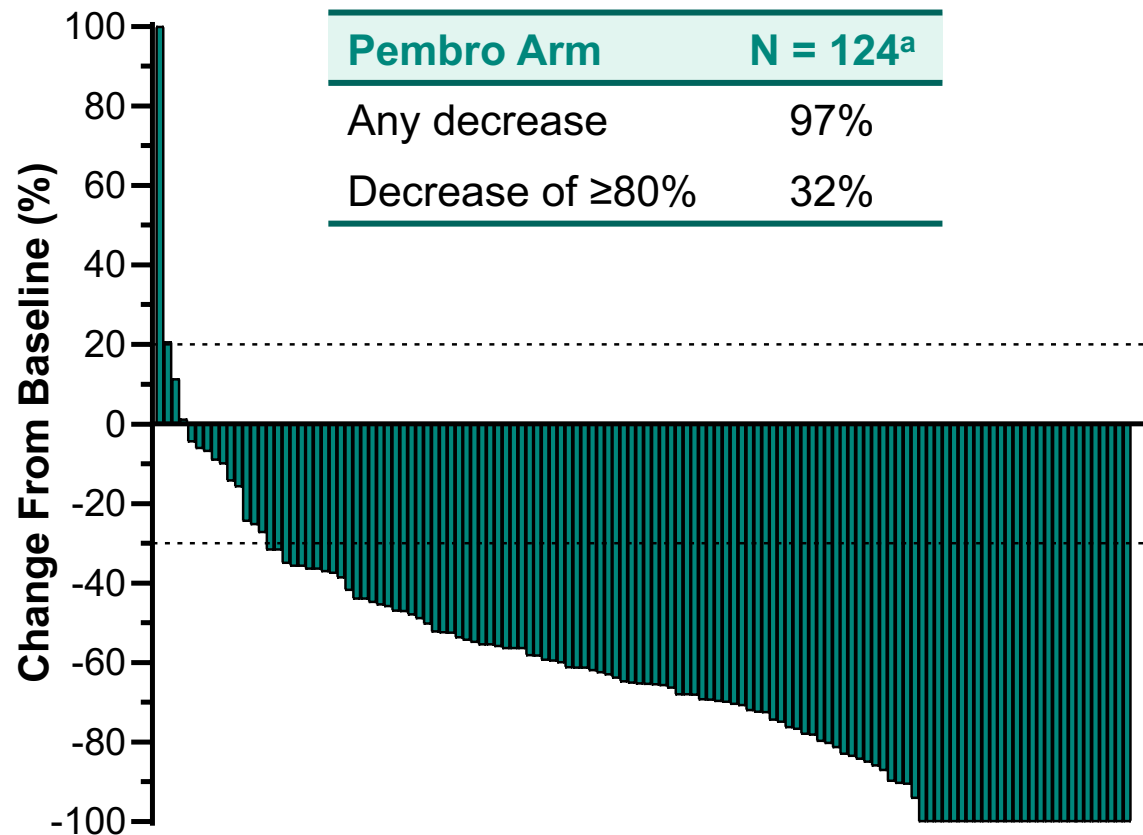
- Trastuzumab deruxtecan is active in trastuzumab-pretreated HER2-positive adenocarcinoma, as was shown in DESTINY-Gastric01 study.
- DESTINY-Gastric01 was carried out in patients who had progressed while they were receiving at least two previous therapies, including trastuzumab
- However, there is no standard HER2-targeted therapy in second line after progression on trastuzumab. The standard treatment was paclitaxel/ramucirumab until the trastuzumab deruxtecan studies were performed. However, trastuzumab deruxtecan seems to be clearly more active and should be proposed in **second line** after progression on trastuzumab and after rechecking for HER2 positivity.
- Confirmation of HER2 positivity on a new biopsy is necessary
- The ongoing DESTINY-Gastric02 study includes US/EU patients in second line.

# KEYNOTE-811: Best Percentage Change From Baseline in Size of Target Lesions at IA1, Efficacy Population

**ORR**

**74.4%**

**51.9%**



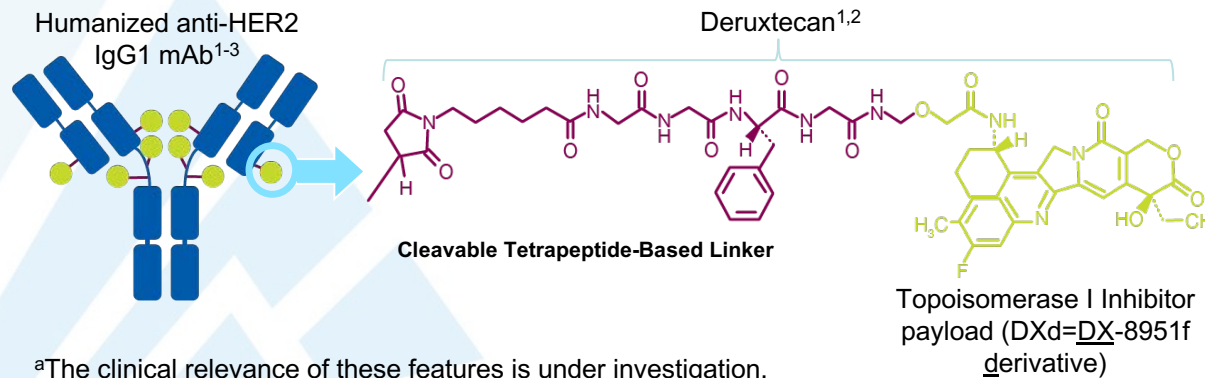
<sup>a</sup>Participants with RECIST-measurable disease at baseline and  $\geq 1$  post-baseline measurement evaluable for change from baseline in target lesions. The treatment regimen in both arms included trastuzumab and chemotherapy. Data cutoff date: June 17, 2020.

## An ADC composed of 3 components<sup>1,2</sup>:

A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as trastuzumab, covalently linked to:

A topoisomerase I inhibitor payload, an exatecan derivative, via

A tetrapeptide-based cleavable linker



## Characteristics

Payload MOA:  
topoisomerase I inhibitor<sup>1,2,a</sup>

High potency of payload<sup>1,2,a</sup>

High DAR  $\approx 8$ <sup>1,2,a</sup>

Payload with short  
systemic half-life<sup>1,2,a</sup>

Stable linker-payload<sup>1,2,a</sup>

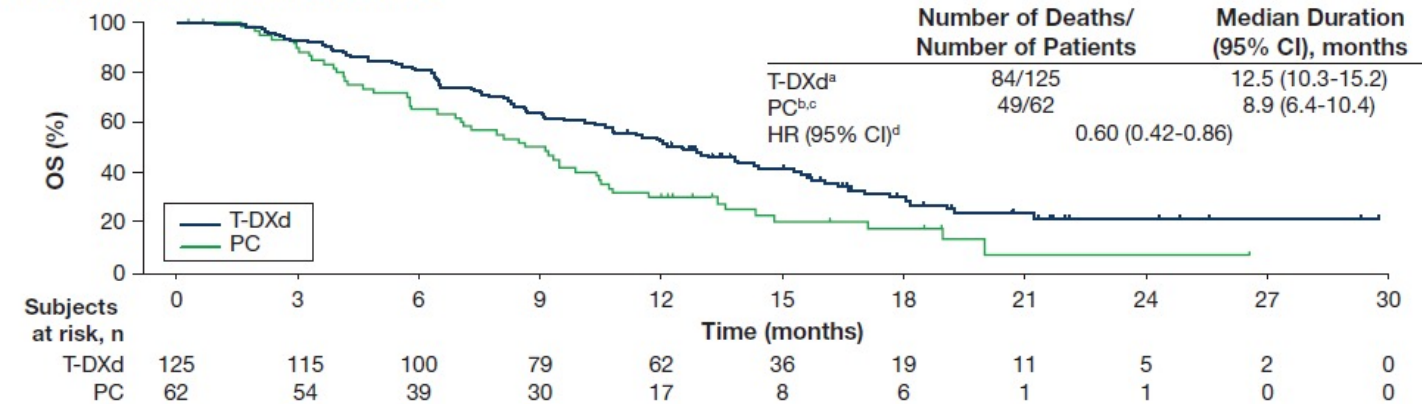
Tumor-selective cleavable linker<sup>1,2,a</sup>

Membrane permeable payload<sup>1,4,a</sup>

1. Nakada T, et al. *Chem Pharm Bull (Tokyo)*. 2019;67(3):173-185.
2. Ogitan Y, et al. *Clin Cancer Research*. 2016;22(20):5097-5108.
3. Trail PA, et al. *Pharmacol Ther*. 2018;181:126-142.
4. Ogitan Y, et al. *Cancer Sci*. 2016;107(7):1039-1046.



Figure 4. Kaplan-Meier Analysis of OS



HR, hazard ratio; OS, overall survival; PC, physician's choice; T-DXd, trastuzumab deruxtecan.

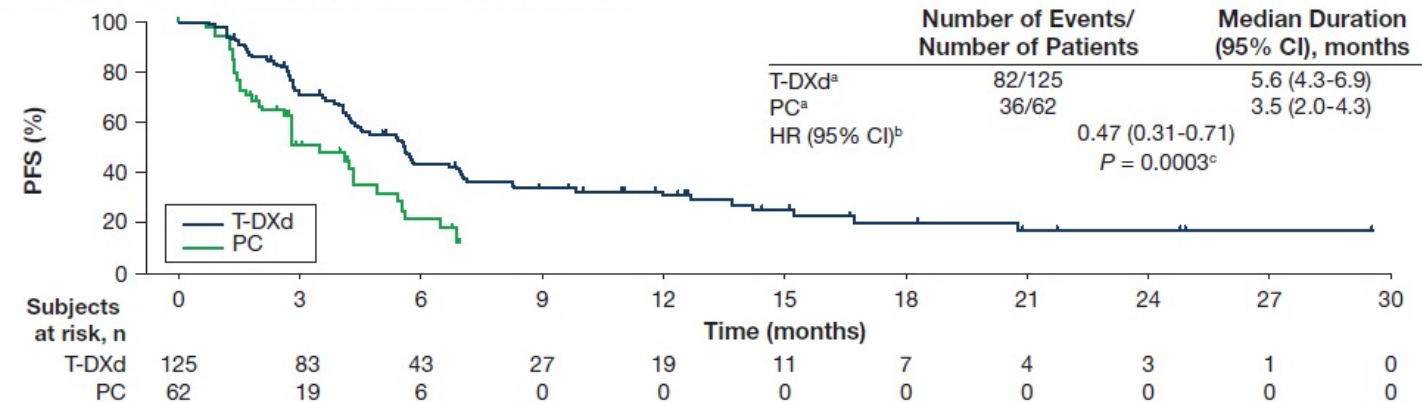
<sup>a</sup>In the T-DXd arm, 41 patients (32.8%) were censored.

<sup>b</sup>In the PC arm, 13 patients (21.0%) were censored.

<sup>c</sup>One patient in the PC arm received crossover treatment of T-DXd.

<sup>d</sup>HR and corresponding 95% CI were estimated using Cox proportional hazards model stratified by region.

Figure 5. Kaplan-Meier Analysis of PFS Based on ICR



HR, hazard ratio; ICR, independent central review; PC, physician's choice; PFS, progression-free survival; T-DXd, trastuzumab deruxtecan.

<sup>a</sup>In the T-DXd arm, 71 patients (56.8%) had PD and 11 (8.8%) had death as the first event. In the PC arm, 34 patients (54.8%) had PD and two (3.2%) had death as the first event. 43 (34.4%) and 26 (41.9%) patients were censored in the T-DXd and PC arms, respectively, for no baseline (T-DXd [n = 0]; PC [n = 2]) or postbaseline tumor assessment (n = 1; n = 3), receiving new anticancer therapy (n = 14; n = 14), and missing two consecutive tumor assessments (n = 5; n = 1); the remaining patients were censored without an event.

<sup>b</sup>HR and corresponding 95% CI were estimated using Cox proportional hazards model stratified by region.

<sup>c</sup>Comparison between T-DXd and PC overall using a stratified log-rank test with region as a stratification factor.

Data cutoff: June 3, 2020



# DESTINY-Gastric01

## Primary Endpoint: ORR



	Primary Cohort <sup>1,a</sup>		Exploratory Cohorts <sup>2,b</sup>	
	T-DXd (n = 119)	PC Overall (n = 56)	Cohort 1 IHC 2+/ISH- (n = 19)	Cohort 2 IHC 1+ (n = 21)
<b>ORR by ICR (CR + PR)<sup>c</sup></b>	51.3% (n = 61) 95% CI, 41.9-60.5;	14.3% (n = 8) 95% CI, 6.4-26.2	36.8% (n = 7) 95% CI, 16.3%-61.6%	19.0% (n = 4) 95% CI, 5.4%-41.9%
	<i>P</i> < .0001 <sup>d</sup>			
<b>Confirmed ORR by ICR (CR + PR)<sup>c</sup></b>	42.0% (n = 50) 95% CI, 33.0-51.4	12.5% (n = 7) 95% CI, 5.2-24.1	26.3% (n = 5) 95% CI, 9.1%-51.2%	9.5% (n = 2) 95% CI, 1.2%-30.4%
CR	8.4% (n = 10)	0	0	0
PR	33.6% (n = 40) <sup>e</sup>	12.5% (n = 7)	26.3% (n = 5)	9.5% (n = 2)
SD	43.7% (n = 52)	50.0% (n = 28)	63.2% (n = 12)	61.9% (n = 13)
PD	11.8% (n = 14)	30.4% (n = 17)	10.5% (n = 2)	28.6% (n = 6)
NE	2.5% (n = 3)	7.1% (n = 4)	0	0
<b>Confirmed DCR (CR + PR + SD)<sup>c</sup></b>	85.7% (n = 102) 95% CI, 78.1-91.5	62.5% (n = 35) 95% CI, 48.5-75.1	89.5% (n = 17) 95% CI, 66.9%-98.7%	71.4% (n = 15) 95% CI, 47.8%-88.7%
<b>Median Confirmed DOR</b>	12.5 months 95% CI, 5.6 months-NE	3.9 months 95% CI, 3.0-4.9 months	7.6 months 95% CI, 4.1 months-NE	12.5 months 95% CI, NE-NE

<sup>a</sup>Data cutoff: June 3, 2020. <sup>b</sup>Data cutoff: November 8, 2019. <sup>c</sup>Includes data for the response-evaluable set: all randomized patients who received ≥1 dose of study drug and had measurable tumors based on ICR at baseline. <sup>d</sup>Comparison between T-DXd and PC overall using Cochran-Mantel-Haenszel test stratified by region. <sup>e</sup>According to the procedure of the ICR, the adjudicator assessment was changed from PR to SD in 1 patient at data cutoff of the final OS analysis.

1. Yamaguchi K, et al. Presented at ASCO 2021 Virtual Meeting; June 4-8, 2021.
2. Yamaguchi K, et al. Presented at ESMO Virtual Congress 2020; 19-21 September 2020.

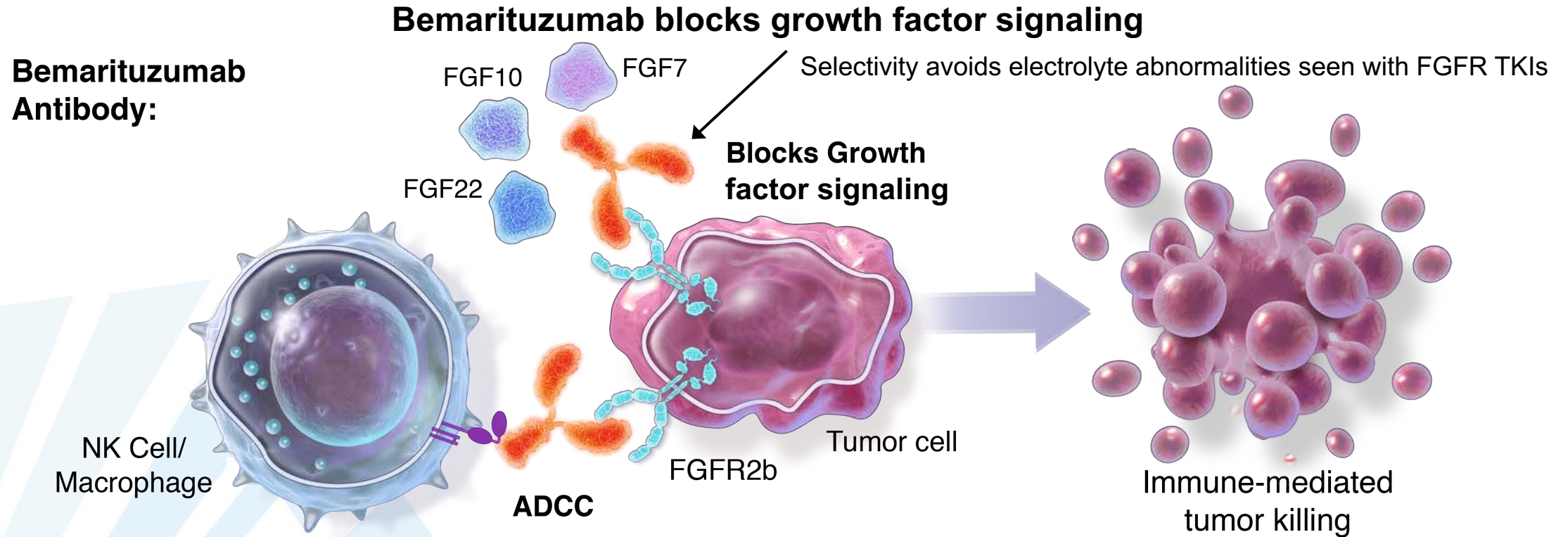
## TEAEs in $\geq 20\%$ of Patients Treated with T-DXd<sup>a</sup>

Preferred Term, %	T-DXd (n = 125)			PC (n = 62)		
	Any	Grade		Any	Grade	
		3	4		3	4
Neutrophil count decreased <sup>b</sup>	64.8	38.4	12.8	35.5	16.1	8.1
Nausea	63.2	5.6	0	46.8	1.6	0
Decreased appetite	60.8	16.8	0	45.2	12.9	0
Anemia <sup>c</sup>	57.6	38.4	0	30.6	21.0	1.6
Platelet count decreased <sup>d</sup>	40.0	9.6	1.6	6.5	1.6	1.6
White blood cell count decreased <sup>e</sup>	38.4	20.8	0	35.5	8.1	3.2
Malaise	34.4	0.8	0	16.1	0	0
Diarrhea	32.8	2.4	0	32.3	1.6	0
Vomiting	26.4	0	0	8.1	0	0
Pyrexia	24.8	0	0	16.1	0	0
Constipation	24.8	0	0	24.2	0	0
Lymphocyte count decreased <sup>f</sup>	23.2	7.2	4.8	3.2	0	1.6
Alopecia	22.4	0	0	14.5	0	0
Fatigue	21.6	7.2	0	24.2	3.2	0

- 16 patients (12.8%) had T-DXd–related ILD (determined by an independent adjudication committee); there were no ILD events in the PC arm

Data cutoff: June 3, 2020. No additional TEAEs were observed in  $\geq 20\%$  of patients receiving PC. <sup>a</sup>There were no grade 5 events. <sup>b</sup>Includes preferred terms “neutrophil count decreased” and “neutropenia.” <sup>c</sup>Includes preferred terms “hemoglobin decreased,” “red blood cell count decreased,” “anemia,” and “hematocrit decreased.” <sup>d</sup>Includes preferred terms “platelet count decreased” and “thrombocytopenia.” <sup>e</sup>Includes preferred terms “leukopenia” and “white blood cell count decreased.” <sup>f</sup>Includes preferred terms “lymphocyte count decreased” and “lymphopenia.”

- ❑ DESTINY-Gastric02 study of 2nd-line T-DXd (N=79) US/Europe completed accrual [NCT04014075]
- ❑ DESTINY-Gastric03 phase 2 study of novel combinations with T-DXd (chemo, ICI) is now open [NCT04379596]
- ❑ DESTINY-Gastric04 phase III (N=490) study of 2nd-line T-DXd is now open. [NCT04704934]



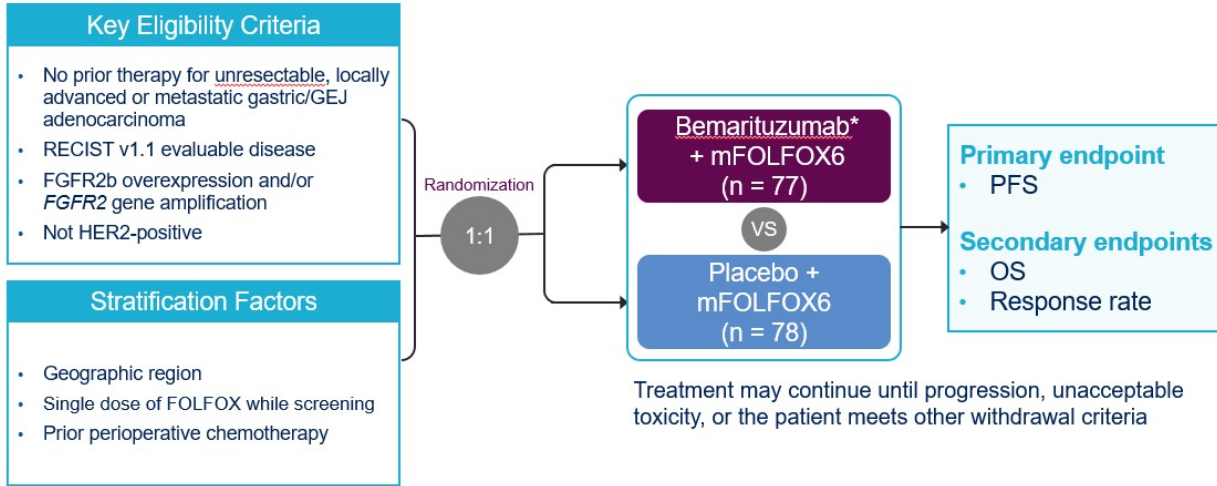
Catenacci DVT. Phase I Escalation & Expansion Study of Bemarituzumab (FPA144) in Pts With Advanced Solid Tumors and FGFR2b-Selected Gastroesophageal Adenocarcinoma JCO 2020

Catenacci DVT. Bemarituzumab with modified FOLFOX6 for advanced FGFR2-positive gastroesophageal cancer: FIGHT Phase III study design. Future Oncol 2019





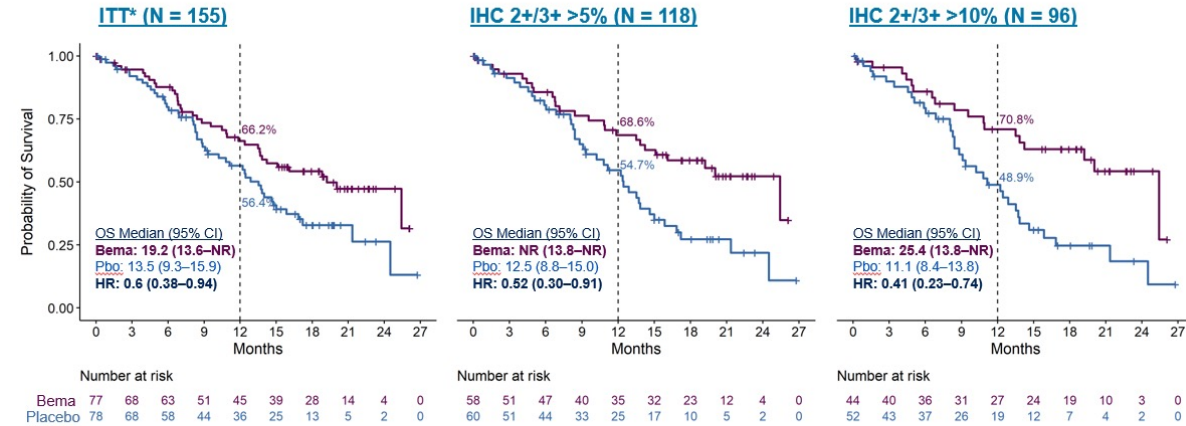
## FIGHT Phase 2 Study Design



\*Bemarituzumab dosing: 15 mg/kg Q2W beginning cycle 1 day 1 (plus 1 dose of 7.5 mg/kg on day 8 of cycle 1 only). FOLFOX6 dosing: standard fixed doses Q2W. FGFR2b, fibroblast growth factor receptor 2b.

## Median OS Reached With Longer Follow-up

### Addition of Bemarituzumab Showed a +5.7 Month Improvement in Median OS



\*ITT = includes 149 patients with IHC 2+/3+ and 6 with IHC <2+ or not available who were enrolled based on ctDNA alone. NR, not reached. Median Follow-up 12.5 months

\*Based on February, 28<sup>th</sup> 2021 data cut

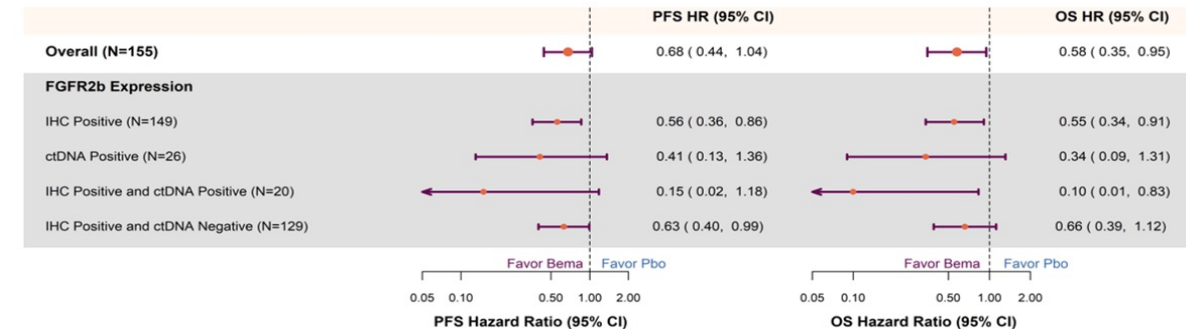
Presented By: Daniel Catenacci, MD

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## Evaluation of Efficacy by Biomarker Status

Overexpression was Sufficient, ctDNA+ with Most Pronounced Benefit



Presented By: Daniel Catenacci, MD

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Catenacci et al. FIGHT: A randomized, double-blind, placebo-controlled, phase 2 study of bemarituzumab (bema) combined with modified FOLFOX6 in 1L FGFR2b+ advanced gastric/gastroesophageal junction adenocarcinoma (GC) (NCT03694522). ASCO abstr 2021

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- With so many approvals and use of immunotherapy with different CPS scores — can you please go through the algorithm of treatment of metastatic squamous cell carcinoma of the esophagus and metastatic adenocarcinoma of esophagus or GE junction or gastric with HER2/neu positive and negative patients?



# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- Choosing immunotherapy wisely

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- FOLFOX vs FOLFOX/trastuzumab in metastatic HER2+ GEJ adenocarcinoma CPS < 1.  
Second line: ramucirumab/paclitaxel vs trastuzumab deruxtecan

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- For the patients that can qualify perioperative FLOT regimen, do you change to CROSS regimen +/- postop nivolumab now?

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- Is FOLFOX the ideal backbone for squamous cell esophageal cancer or do you prefer something else?

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- Outline treatment algorithm and how it differs by histology, mutation analysis and PD-L1 value

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- Re-check the HER2 status on disease progression?



# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- Adjuvant therapy for locally advanced GE or E cancer after Chemo/XRT when patient is not resectable surgically

# Webinar Registrant Questions for the Faculty

## Gastroesophageal Cancers

- If someone is positive for H2N and PD-L1 both, how would you target and sequence the treatment?

# Agenda

## Interdisciplinary Management of Gastrointestinal Cancers – Part 2

### Module 2: Metastatic Colorectal Cancer (mCRC)

- What is the optimal first-line systemic treatment for RAS/BRAF wild-type mCRC in a symptomatic and an asymptomatic patient, and does this vary by side of the primary tumor?
- What is the optimal first-line treatment for MSI-high mCRC?
- What is the optimal targeted treatment for BRAF-mutated mCRC, and in which line of therapy should it be used?
- What is your preferred sequencing of EGFR TKIs, TAS-102 (+/- bevacizumab) and regorafenib?
- What is your preferred sequencing of therapies for HER2-positive mCRC, including T-DXd?

# Agenda

## Interdisciplinary Management of Gastrointestinal Cancers – Part 2

### Module 2: Metastatic Colorectal Cancer (mCRC)

- What is the optimal first-line systemic treatment for RAS/BRAF wild-type mCRC in a symptomatic and an asymptomatic patient, and does this vary by side of the primary tumor?
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- What is your preferred sequencing of EGFR TKIs, TAS-102 (+/- bevacizumab) and regorafenib?
- What is your preferred sequencing of therapies for HER2-positive mCRC, including T-DXd?

**What is the optimal first-line systemic treatment for RAS/BRAF wild-type mCRC in a symptomatic and an asymptomatic patient, and does this vary by side of the primary tumor?**



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**

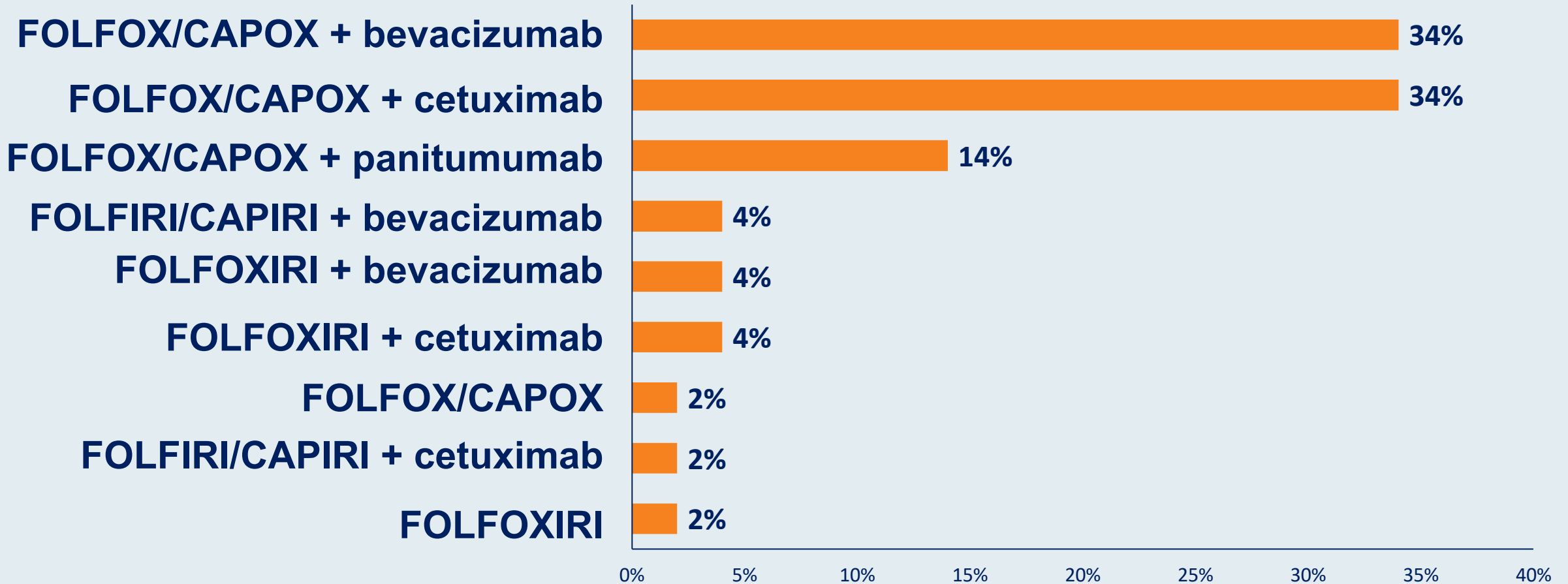


**Dr Philip Philip**



**Dr Kim Reiss Binder**

# What is your usual first-line treatment recommendation for a clinically stable 60-year-old patient with left-sided, MSS, pan-RAS wild-type, BRAF wild-type metastatic colorectal cancer (mCRC)?





What is your usual first-line treatment recommendation for a clinically stable 60-year-old patient with left-sided, MSS, pan-RAS wild-type, BRAF wild-type metastatic colorectal cancer (mCRC)?



Dr Atreya

Nuanced decision dependent on several factors



Dr Bekaii-Saab

FOLFIRI/CAPIRI + bevacizumab



Dr Deming

FOLFOX/CAPOX + bevacizumab



Dr O'Reilly

FOLFOX/CAPOX + bevacizumab



Prof Van Cutsem

FOLFOX + cetuximab



Dr Philip

FOLFOX/CAPOX + bevacizumab



Dr Wainberg

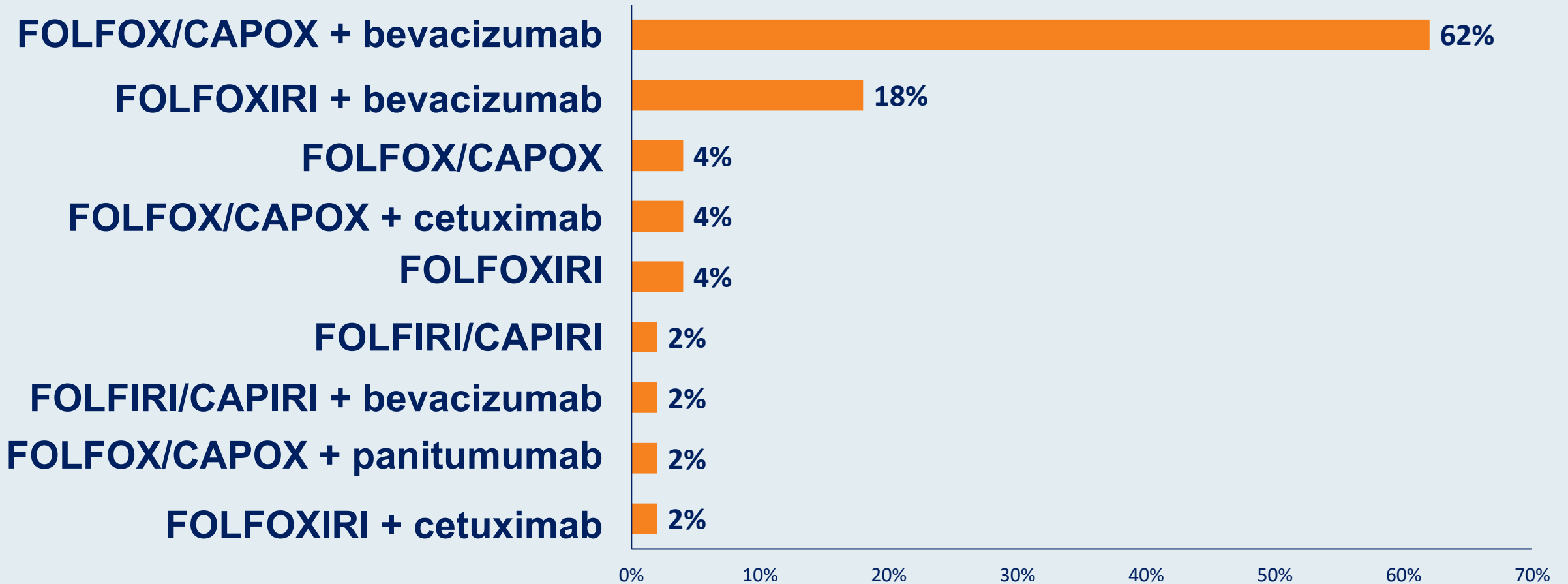
FOLFOX/CAPOX + cetuximab



Dr Reiss Binder

FOLFOX/CAPOX + bevacizumab

# What is your usual first-line treatment recommendation for a clinically stable 60-year-old patient with right-sided, MSS, pan-RAS wild-type, BRAF wild-type mCRC?



# What is your usual first-line treatment recommendation for a clinically stable 60-year-old patient with right-sided, MSS, pan-RAS wild-type, BRAF wild-type mCRC?



Dr Atreya

Chemotherapy  $\pm$   
bevacizumab



Dr Bekaii-Saab

FOLFOXIRI +  
bevacizumab



Dr Deming

FOLFOX/CAPOX +  
bevacizumab



Dr O'Reilly

FOLFOX/CAPOX +  
bevacizumab



Prof Van  
Cutsem

FOLFOX + bevacizumab



Dr Philip

FOLFOX/CAPOX +  
bevacizumab



Dr Wainberg

FOLFOX/CAPOX +  
bevacizumab



Dr Reiss  
Binder

FOLFOX/CAPOX +  
bevacizumab or  
FOLFIRI/CAPIRI + cetuximab

What is your usual first-line treatment recommendation for a 60-year-old patient with left-sided, MSS, pan-RAS wild-type, BRAF wild-type mCRC who is highly symptomatic and requires a response to treatment?



**Dr Atreya**

**Chemotherapy +  
panitumumab**



**Dr Bekaii-Saab**

**FOLFOXIRI +  
bevacizumab**



**Dr Deming**

**FOLFOX/CAPOX +  
bevacizumab**



**Dr O'Reilly**

**FOLFOXIRI +  
bevacizumab**



**Prof Van  
Cutsem**

**FOLFOX + cetuximab**



**Dr Philip**

**FOLFOXIRI +  
bevacizumab**



**Dr Wainberg**

**FOLFOXIRI +  
bevacizumab**



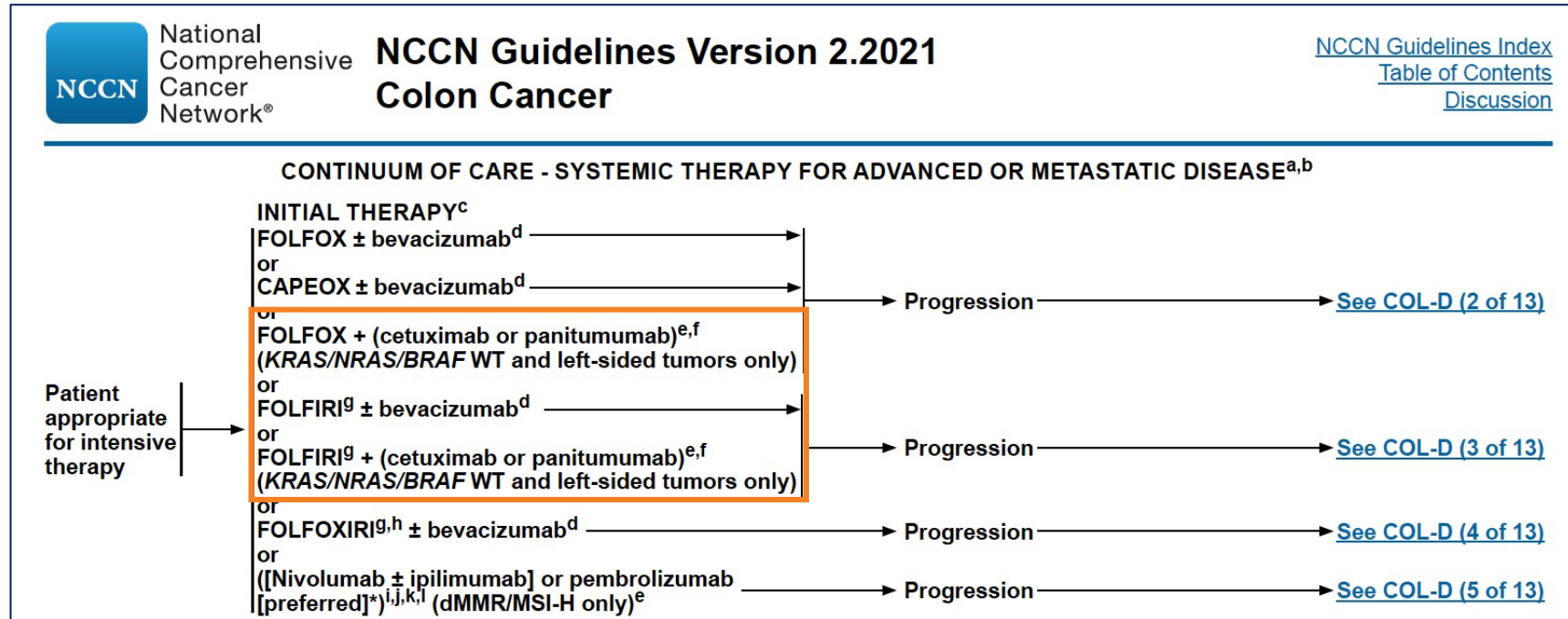
**Dr Reiss  
Binder**

**FOLFOXIRI or FOLFOXIRI  
+ bevacizumab**

Regulatory and reimbursement issues aside, what is the optimal 1st-line therapy for a patient with MSS, pan-RAS wild-type, BRAF wild-type mCRC, and how do tumor sidedness, patient age and symptomatology affect this decision?

	5FU/ CAP	OX	IRI	+ BEVA	or + EGFR
High volume/aggressive dx				[R]	[L]
Rt Sided tumor					X
~Age >65/ ECOG >0-1	X				
~Age >80/ ECOG 2	[No CAP]	X	X		
<i>Symptoms/Comorbidities</i>					
Obstructive Sx.			X	X	
Liver dysfunction			X		
Recent/future surgery				X	
Bleeding or fistula risk				X	
Clotting risk (CVA, CAD)				X	
Renal dysfunction	No CAP				
Neuropathy (DM)		X			
<i>Preferences</i>					
Quality of life > quantity	X				
Most aggressive tx				[R]	[L]
No 5FU pump	CAP		X (no CA/IRI )		
No neuropathy (eg. artist)		X			
No hair loss			X		
No rash					X

# Correlation between location of the primary tumor and outcomes with specific systemic therapies



Right-sided mCRC:

-Worse prognosis

-Impaired response to EGFR-targeted therapies (FIRE3, CALGB 80405...)



# What is the optimal first-line treatment for MSI-high mCRC?



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**

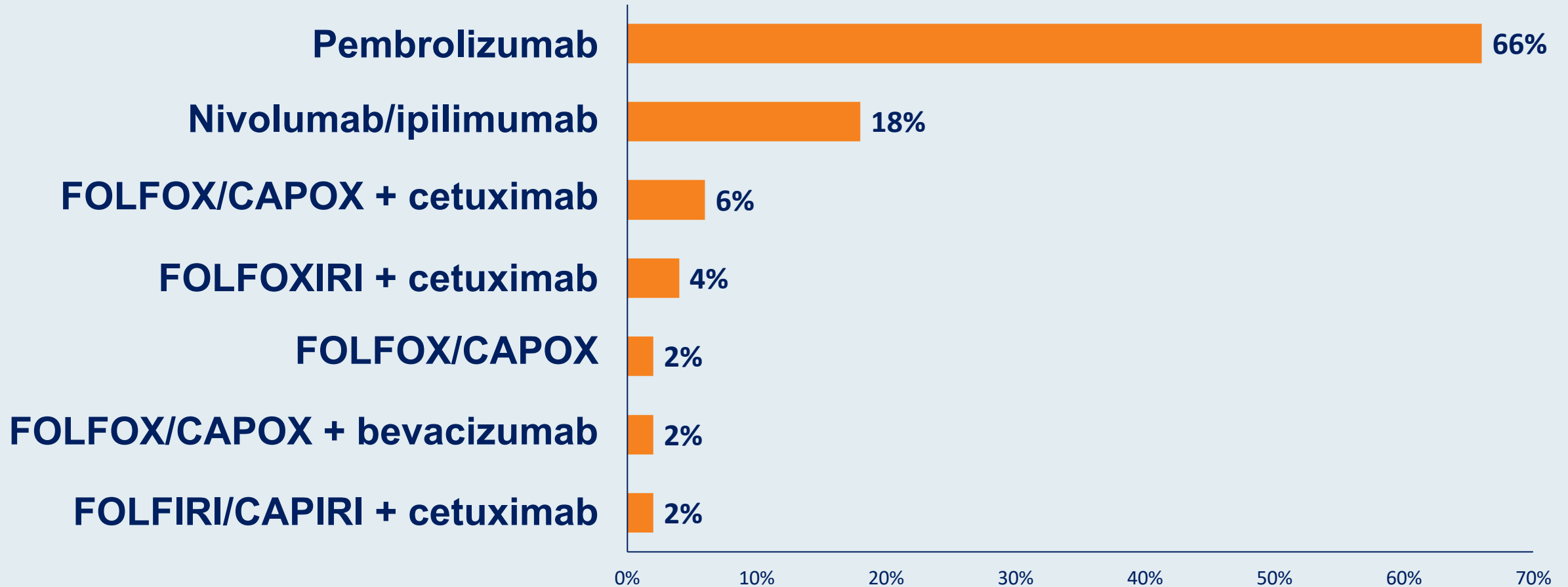


**Dr Philip Philip**



**Dr Kim Reiss Binder**

# What is your usual first-line treatment recommendation for a clinically stable 60-year-old patient with left-sided, pan-RAS wild-type, BRAF wild-type, MSI (microsatellite instability)-high mCRC?



# What is your usual first-line treatment recommendation for a clinically stable 60-year-old patient with left-sided, pan-RAS wild-type, BRAF wild-type, MSI-high mCRC?



**Dr Atreya**

**Pembrolizumab**



**Dr Bekaii-Saab**

**Pembrolizumab**



**Dr Deming**

**Nivolumab/ipilimumab**



**Dr O'Reilly**

**Pembrolizumab**



**Prof Van Cutsem**

**Pembrolizumab**



**Dr Philip**

**Pembrolizumab**



**Dr Wainberg**

**Pembrolizumab**



**Dr Reiss Binder**

**Pembrolizumab or Nivolumab/ipilimumab**

For an asymptomatic patient with MSI-high mCRC who is experiencing slow disease progression on anti-PD-1 therapy alone, would you consider switching to the combination of nivolumab and ipilimumab?



**Dr Atreya**

**Yes**



**Dr Bekaii-Saab**

**Yes**



**Dr Deming**

**Yes**



**Dr O'Reilly**

**Yes**



**Prof Van Cutsem**

**Yes**



**Dr Philip**

**Yes**



**Dr Wainberg**

**No**



**Dr Reiss Binder**

**Yes**

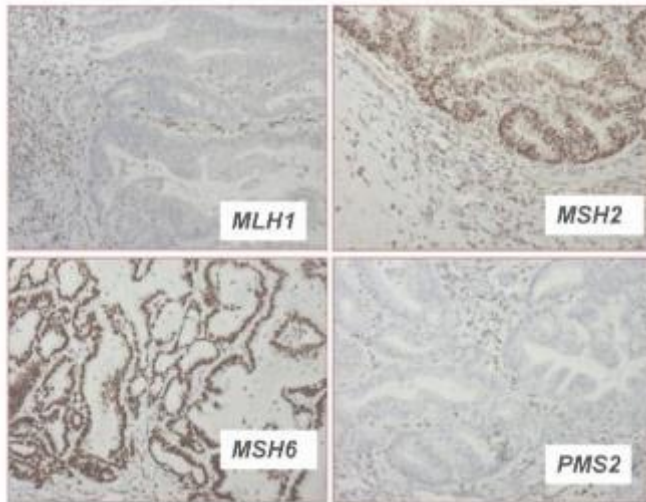


## **Regulatory and reimbursement issues aside, what is the optimal first-line therapy for a patient with MSI-high mCRC, and how, if at all, do patient age and symptomatology affect this decision?**

- ◇ Pembrolizumab is the standard of care therapy given KEYNOTE-177 showing an improvement over chemotherapy.
- ◇ The combination of nivolumab and ipilimumab has shown the greatest response rate and progression free survival, however, this was not a direct comparison to anti-PD-1 therapy alone (CheckMate 142).
- ◇ Benefit has been seen for immunotherapy in all subgroups explored in KEYNOTE-177 and CheckMate 142.
- ◇ Prefer nivolumab and ipilimumab except for those that are older or less fit to using pembrolizumab.
- ◇ Eagerly await data of chemotherapy in combination with immunotherapy in this setting.

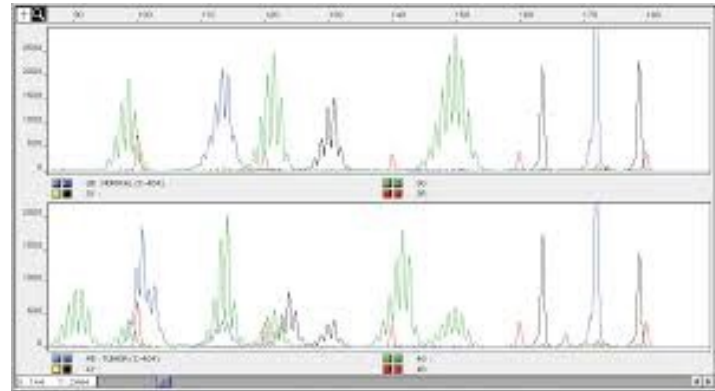
# MMR/MSI Testing

## MMR IHC



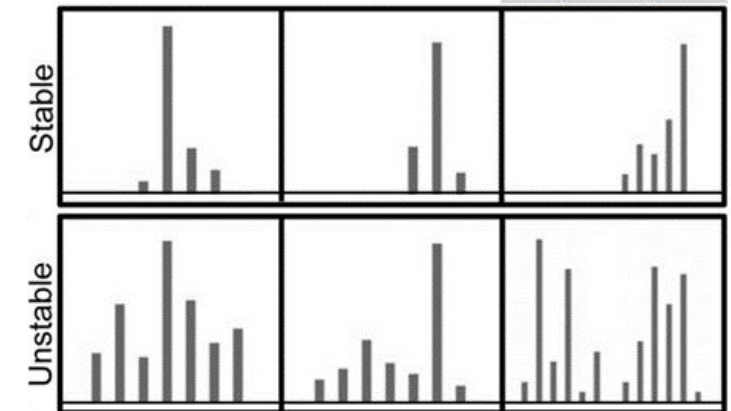
- Easily done at most centers
- Detects most common changes
- Altered proteins can still be detected as present

## PCR Microsatellite



- Functional assay
- Very well validated
- Does not identify specific alteration
- Is a stand alone test

## Next Gen Sequencing



- Increasingly more common
- Detects mutations and MSI status
- Validation of assays not as robust

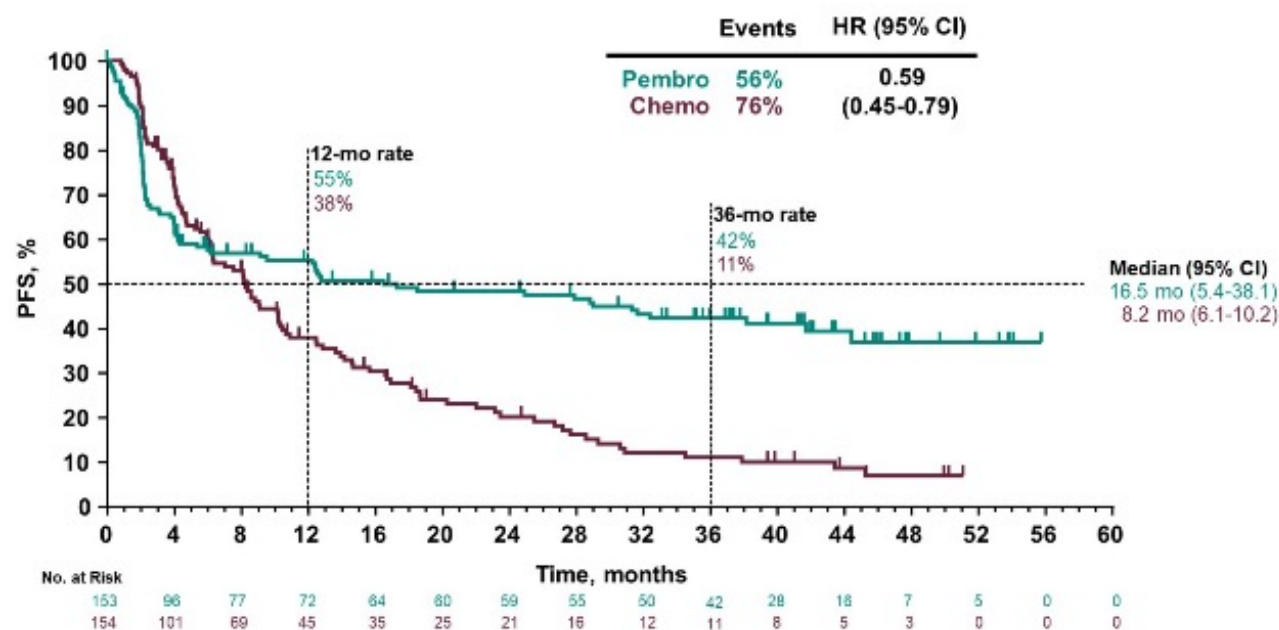


# Phase 3 KEYNOTE-177

## Antitumor Response

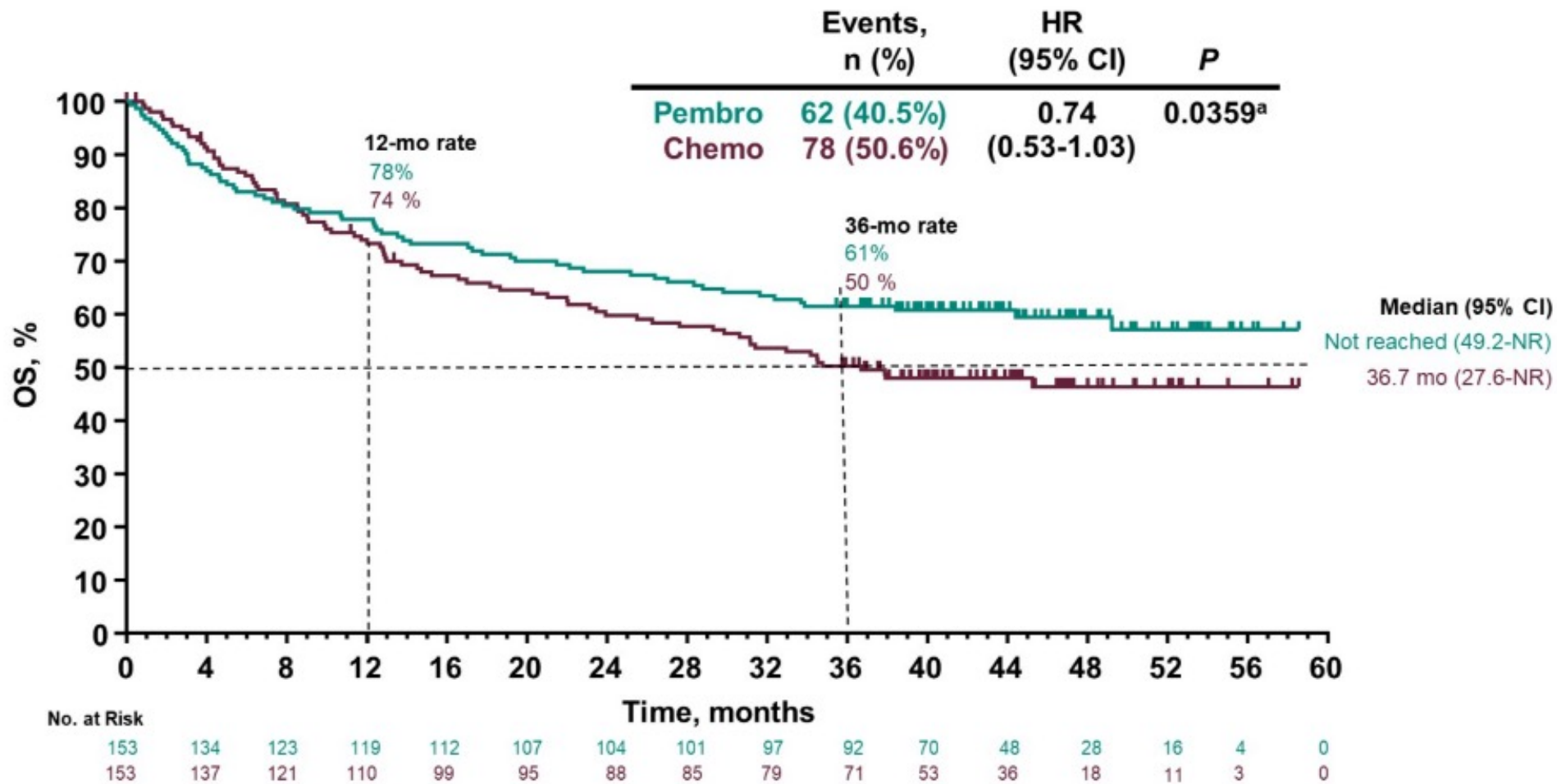
	Pembrolizumab N = 153	Chemotherapy N = 154
<b>ORR, n (%)</b>	<b>69 (45.1)<sup>a</sup></b>	<b>51 (33.1)</b>
Best Overall Response, n (%)		
Complete response	20 (13.1) <sup>b</sup>	6 (3.9)
Partial response	49 (32.0) <sup>c</sup>	45 (29.2)
Stable disease	30 (19.6)	65 (42.2)
Disease control rate (CR+PR+SD)	99 (64.7)	116 (75.3)
Progressive disease	45 (29.4)	19 (12.3)
Not evaluable	3 (2.0)	2 (1.3)
No assessment	6 (3.9)	17 (11.0)
Median duration or response (range), mo	NR (2.3+ to 53.5+)	10.6 (2.8 to 48.3+)
≥ 24 months response duration, %	83.5	33.6

## Progression-Free Survival



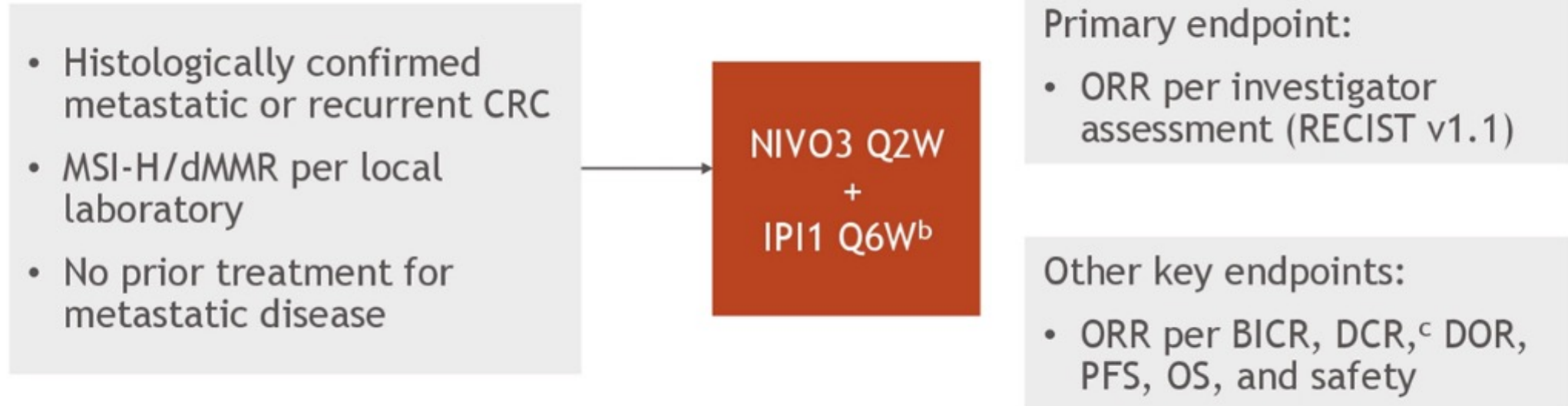
# Phase 3 KEYNOTE-177

## Overall Survival



# CheckMate 142: First-line treatment with nivolumab and low-dose ipilimumab for MSI-H/dMMR metastatic CRC

- CheckMate 142 is an ongoing, multicohort, nonrandomized phase 2 trial evaluating the efficacy and safety of NIVO-based therapies in patients with mCRC<sup>a</sup>

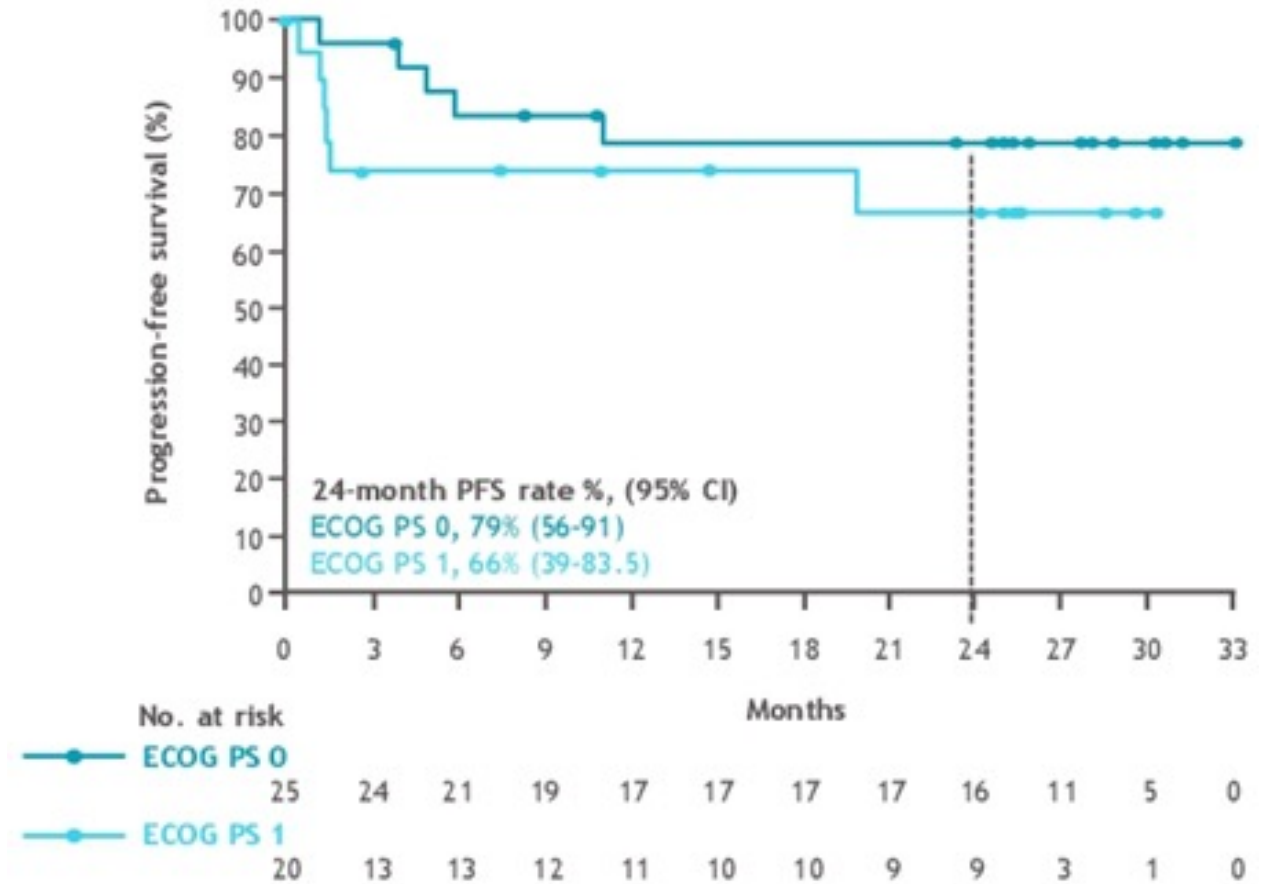


- At data cutoff (October 2019), the median duration of follow-up was 29.0 months (range, 24.2-33.7)<sup>d</sup>

# CheckMate 142

N=45	
Overall ORR	69%
Median PFS	Not reached after 29 months median follow-up
24-month PFS rate	74%
24-month Overall Survival rate	79%

Progression Free Survival by ECOG PS





# What is the optimal targeted treatment for BRAF-mutated mCRC, and in which line of therapy should it be used?



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**

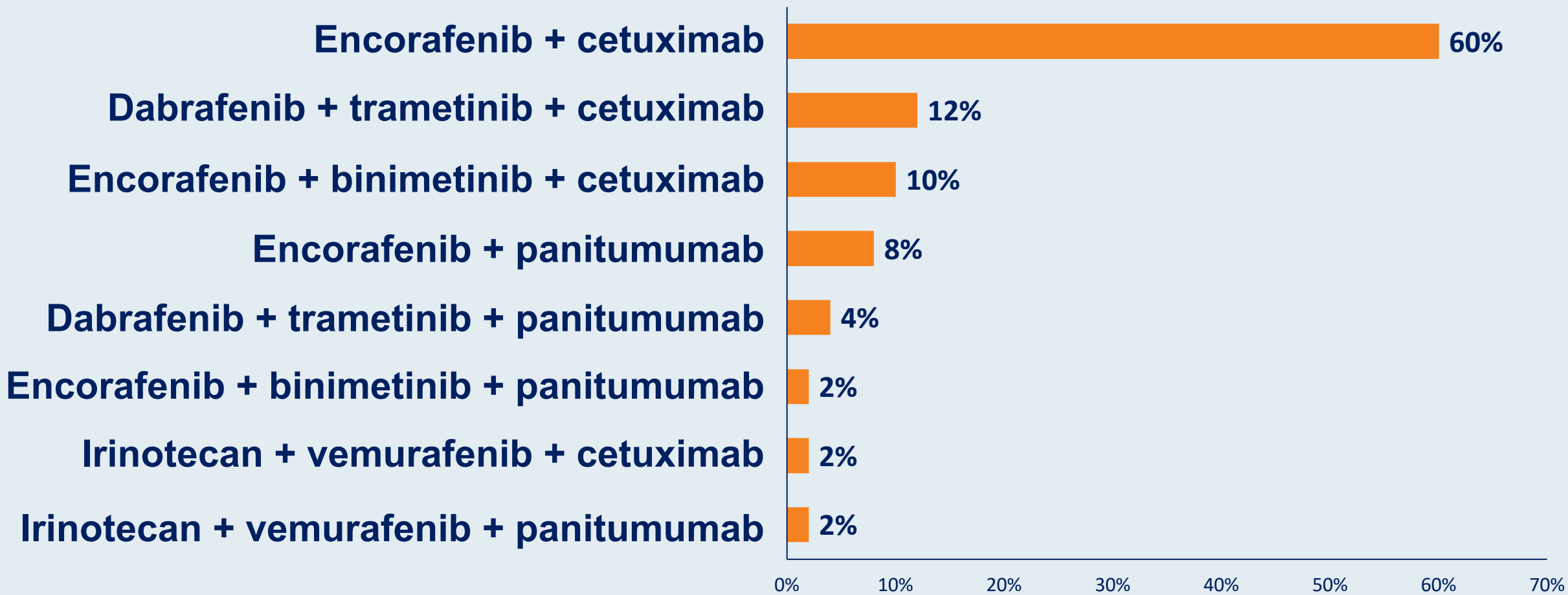


**Dr Philip Philip**



**Dr Kim Reiss Binder**

# For a patient with mCRC with a BRAF V600E mutation to whom you would administer BRAF-targeted therapy, what would be your preferred treatment?





# For a patient with mCRC with a BRAF V600E mutation to whom you would administer BRAF-targeted therapy, what would be your preferred treatment?



**Dr Atreya**

**Encorafenib +  
panitumumab or  
cetuximab**



**Dr Bekaii-Saab**

**Encorafenib +  
panitumumab**



**Dr Deming**

**Encorafenib +  
panitumumab**



**Dr O'Reilly**

**Encorafenib +  
cetuximab**



**Prof Van  
Cutsem**

**Encorafenib +  
cetuximab**



**Dr Philip**

**Encorafenib +  
panitumumab**



**Dr Wainberg**

**Encorafenib +  
cetuximab**



**Dr Reiss  
Binder**

**Encorafenib +  
cetuximab**

Have you administered or would you administer a BRAF inhibitor in combination with an EGFR antibody as first-line therapy to a patient with mCRC with a BRAF V600E mutation who could not tolerate or did not wish to receive chemotherapy?



**Dr Atreya**

**I have not but would for the right patient**



**Dr Bekaii-Saab**

**I have not but would for the right patient**



**Dr Deming**

**I have**



**Dr O'Reilly**

**I have not but would for the right patient**



**Prof Van Cutsem**

**I have not but would for the right patient**



**Dr Philip**

**I have not but would for the right patient**



**Dr Wainberg**

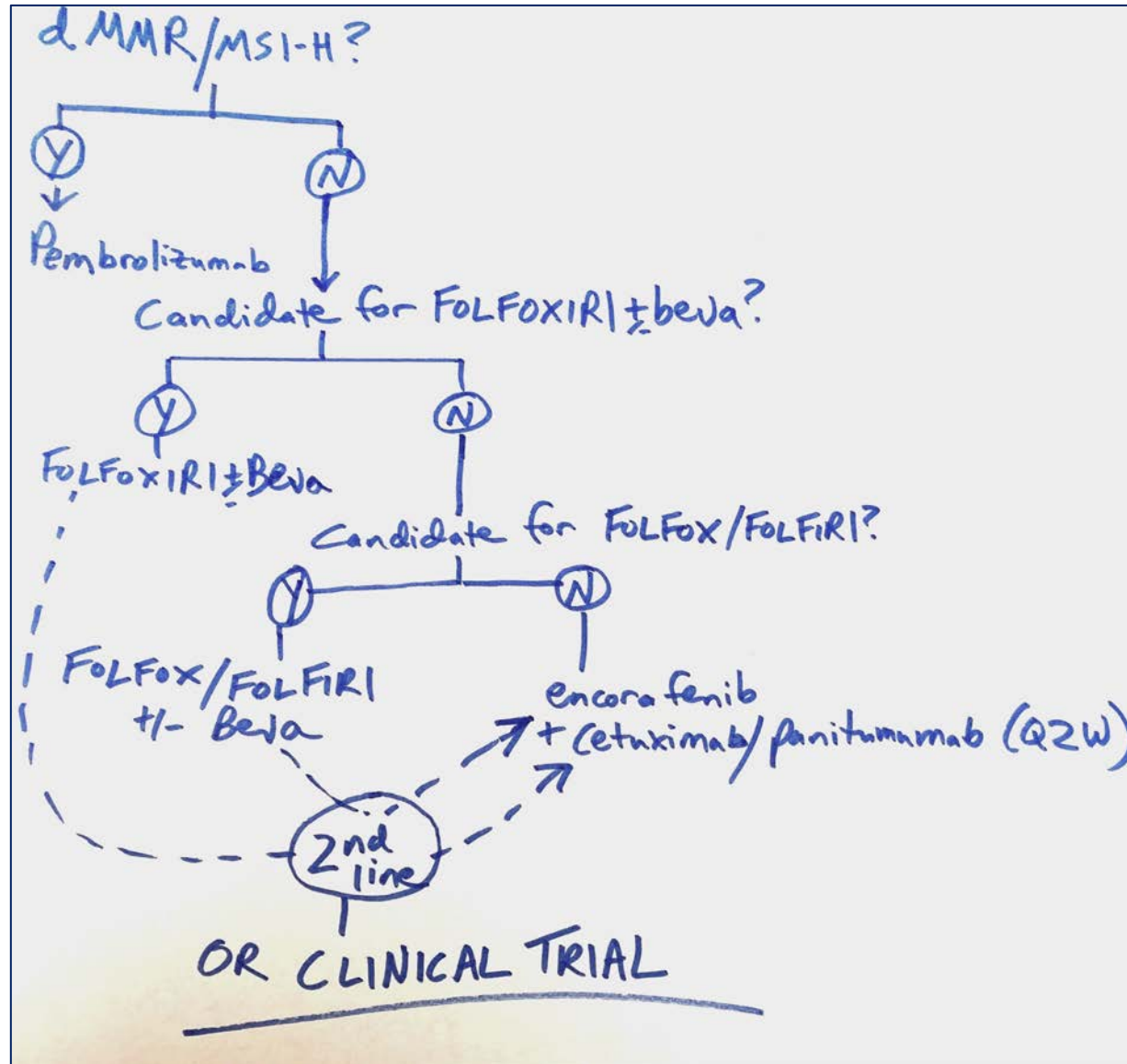
**I have not but would for the right patient**



**Dr Reiss Binder**

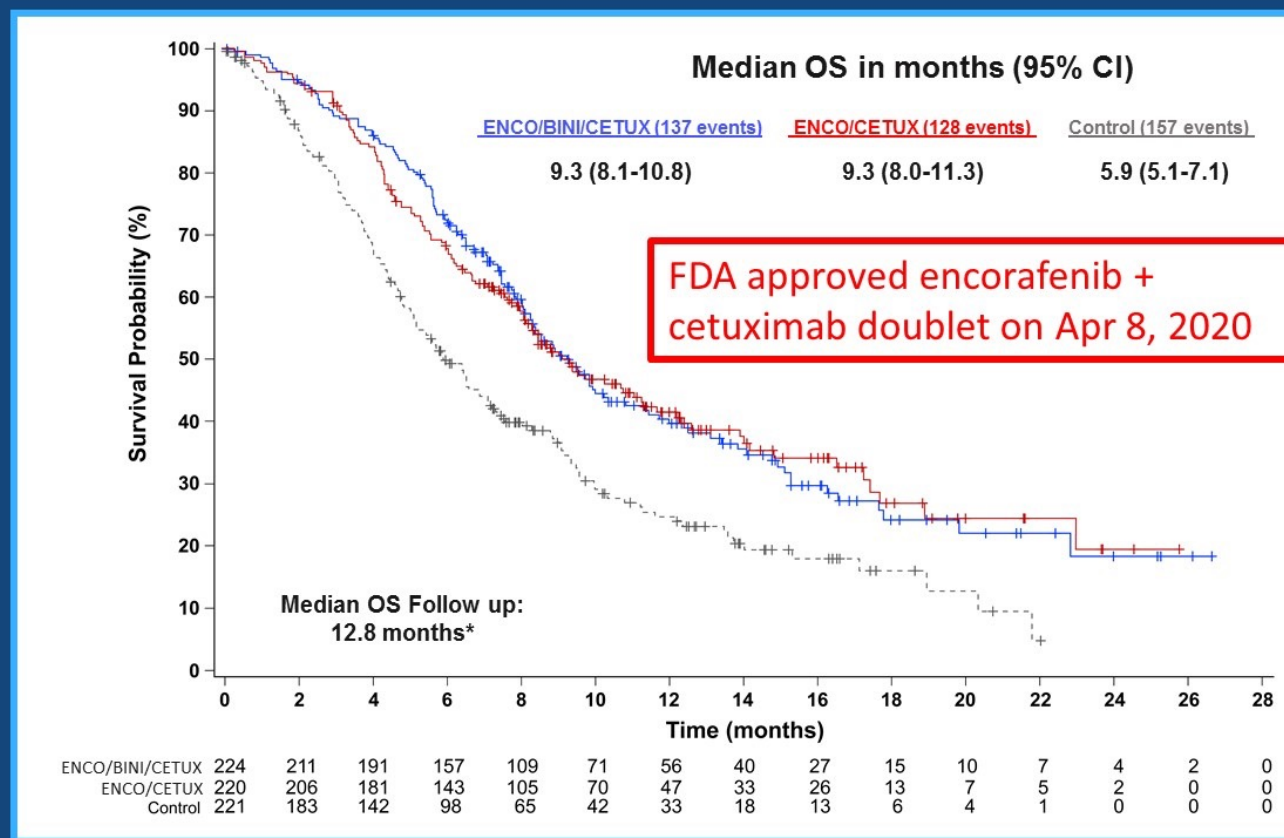
**I have not but would for the right patient**

Regulatory and reimbursement issues aside, for a patient with pan-RAS wild-type mCRC with a BRAF V600E mutation, in what line of treatment would you generally administer BRAF-targeted therapy, and which specific regimen would you choose? Would you offer BRAF-targeted therapy as a front-line option to any of your patients with mCRC?



# BRAF(V600E) mCRC: the BEACON CRC Trial

## Updated Overall Survival: ENCO/BINI/CETUX vs ENCO/CETUX vs Control





# BRAF(V600E) mCRC: context

	N	Objective response rate	Median PFS	Median OS
Vemurafenib + Cetuximab + Irinotecan (Ph IB)	17	35% (14-62)	7.7 mo (3.1-NE)	
Vemurafenib + Cetuximab + Irinotecan (Ph II S1406)	49	16%	4.3 mo (3.6-5.7)	9.6 mo (7.5-13.1)
Dabrafenib + Trametinib	43	12%	3.5 mo (3.4-4.0)	
Dabrafenib + Trametinib + Panitumumab	91	21% (13.1-30.7)	4.2 mo (4.0-5.6)	9.1 mo (7.6-20.0)
Dabrafenib + Panitumumab	20	10% (1.2-31.7)	3.5 mo (2.8-5.8)	13.2 mo (6.7-22.0)
Trametinib + Panitumumab	31	0% (0-11.2)	2.6 mo (1.4-2.8)	8.2 mo (6.5-9.4)
Encorafenib + Binimetinib + Cetuximab (BEACON safety lead-in)	30	41% (24-61)	5.5 mo (4.2-9.3)	15.3 mo (9.6-NE)
Encorafenib + Binimetinib + Cetuximab (BEACON update)	224	27% (21-33)	4.5 mo (4.2-5.5)	9.3 mo (8.2-10.8)
Encorafenib + Cetuximab (BEACON update)	220	20% (15-25)	4.3 mo (4.1-5.5)	9.3 mo (8.0-11.3)

Hong DS, Cancer Discov 2016; Kopetz S, ASCO 2017; Corcoran RB, J Clin Oncol 2015; Corcoran RB, Cancer Discov 2018; Van Cutsem E, J Clin Oncol 2019; Kopetz S, ASCO 2020

# How do you generally sequence BRAF-targeted therapy and immunotherapy for a patient with BRAF-mutated, MSI-high mCRC?



**Dr Atreya**

**Immunotherapy →  
BRAF-targeted therapy**



**Dr Bekaii-Saab**

**Immunotherapy →  
BRAF-targeted therapy**



**Dr Deming**

**Immunotherapy →  
BRAF-targeted therapy**



**Dr O'Reilly**

**Immunotherapy →  
BRAF-targeted therapy**



**Prof Van  
Cutsem**

**Immunotherapy →  
BRAF-targeted therapy**



**Dr Philip**

**Immunotherapy →  
BRAF-targeted therapy**



**Dr Wainberg**

**Immunotherapy →  
BRAF-targeted therapy**



**Dr Reiss  
Binder**

**Immunotherapy →  
BRAF-targeted therapy**



## How should BRAF-targeted therapy and immunotherapy generally be sequenced for patients with BRAF-mutant, MSI-high mCRC?

- ◇ *BRAF V600* mutations significantly predict a worse prognosis for patients with mCRC, though this is improved in the setting of dMMR.
- ◇ *BRAF* mutations do not predict for lack of response to immunotherapy across studies.
- ◇ Sequencing of therapies for patients with BRAF V600 mutant mCRC has not been well studied.
- ◇ Immunotherapy approaches are generally recommended first given the chance of durable benefit.

	<b>Pembrolizumab</b>	<b>Ipi/Nivo</b>	<b>Chemotherapy</b>	<b>Encorafenib/Binimetinib/Cetuximab</b>
ORR (%)	45*	76	33-50	50*
Median PFS (months)	16*	Not reached 24-mo PFS: 76%	5-8	4.9*

# What is your preferred sequencing of EGFR TKIs, TAS-102 (+/- bevacizumab) and regorafenib?



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**

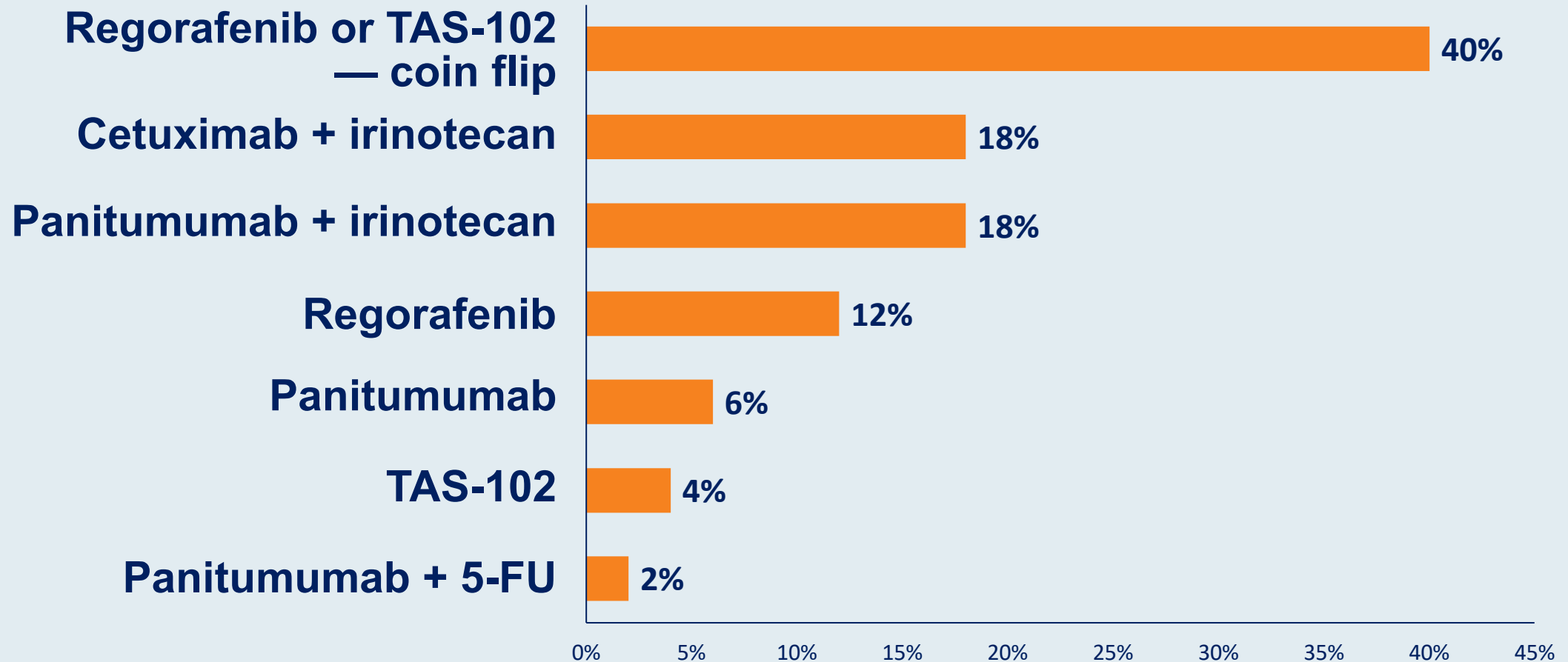


**Dr Philip Philip**



**Dr Kim Reiss Binder**

A 65-year-old patient with right-sided, MSS, pan-RAS wild-type mCRC receives first-line FOLFOX/bevacizumab and second-line FOLFIRI/bevacizumab and is now experiencing disease progression with a PS of 0. What would be your most likely third-line treatment recommendation?



A 65-year-old patient with right-sided, MSS, pan-RAS wild-type mCRC receives first-line FOLFOX/bevacizumab and second-line FOLFIRI/bevacizumab and is now experiencing disease progression with a PS of 0. What would be your most likely third-line treatment recommendation?



**Dr Atreya**

**TAS-102 + bevacizumab**



**Dr Bekaii-Saab**

**Regorafenib**



**Dr Deming**

**Panitumumab + irinotecan**



**Dr O'Reilly**

**Panitumumab + irinotecan**



**Prof Van Cutsem**

**Cetuximab + irinotecan**



**Dr Philip**

**TAS-102**



**Dr Wainberg**

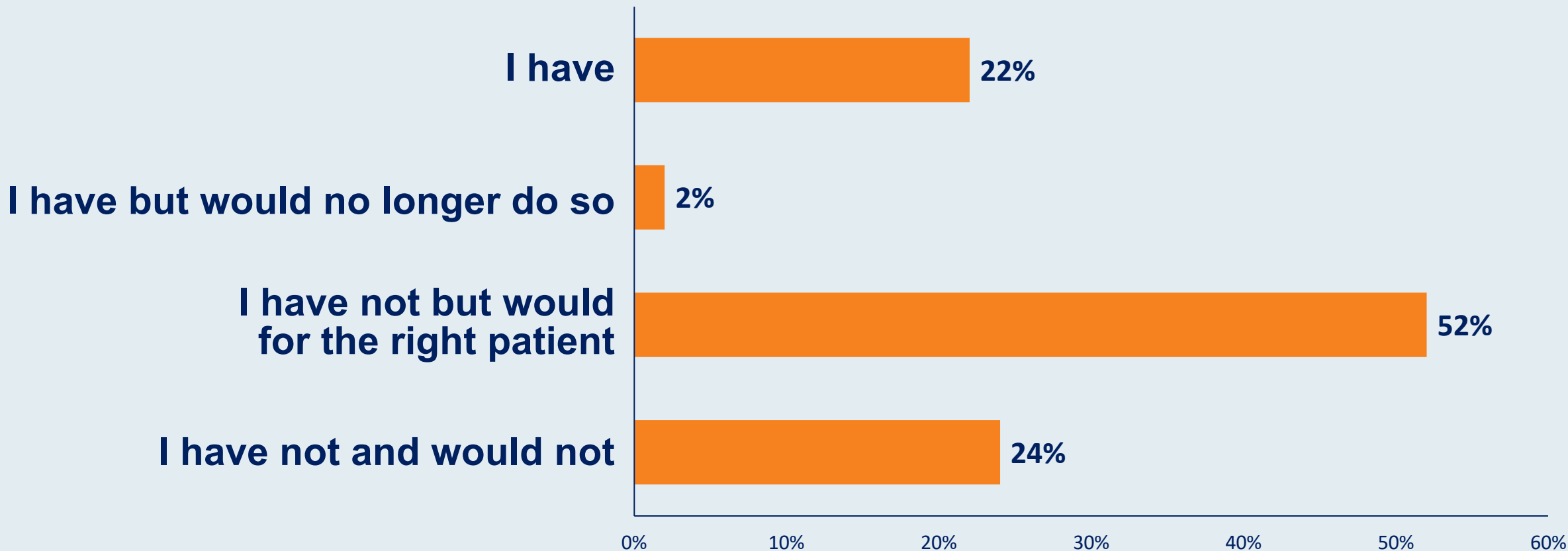
**Cetuximab or Panitumumab**



**Dr Reiss Binder**

**Cetuximab + irinotecan**

# Have you used or would you use TAS-102 in combination with bevacizumab outside of a clinical trial setting for a patient with mCRC?





# Have you used or would you use TAS-102 in combination with bevacizumab outside of a clinical trial setting for a patient with mCRC?



**Dr Atreya**

**I have**



**Dr Bekaii-Saab**

**I have but would no longer do so**



**Dr Deming**

**I have**



**Dr O'Reilly**

**I have not but would for the right patient**



**Prof Van Cutsem**

**I have**



**Dr Philip**

**I have**



**Dr Wainberg**

**I have**

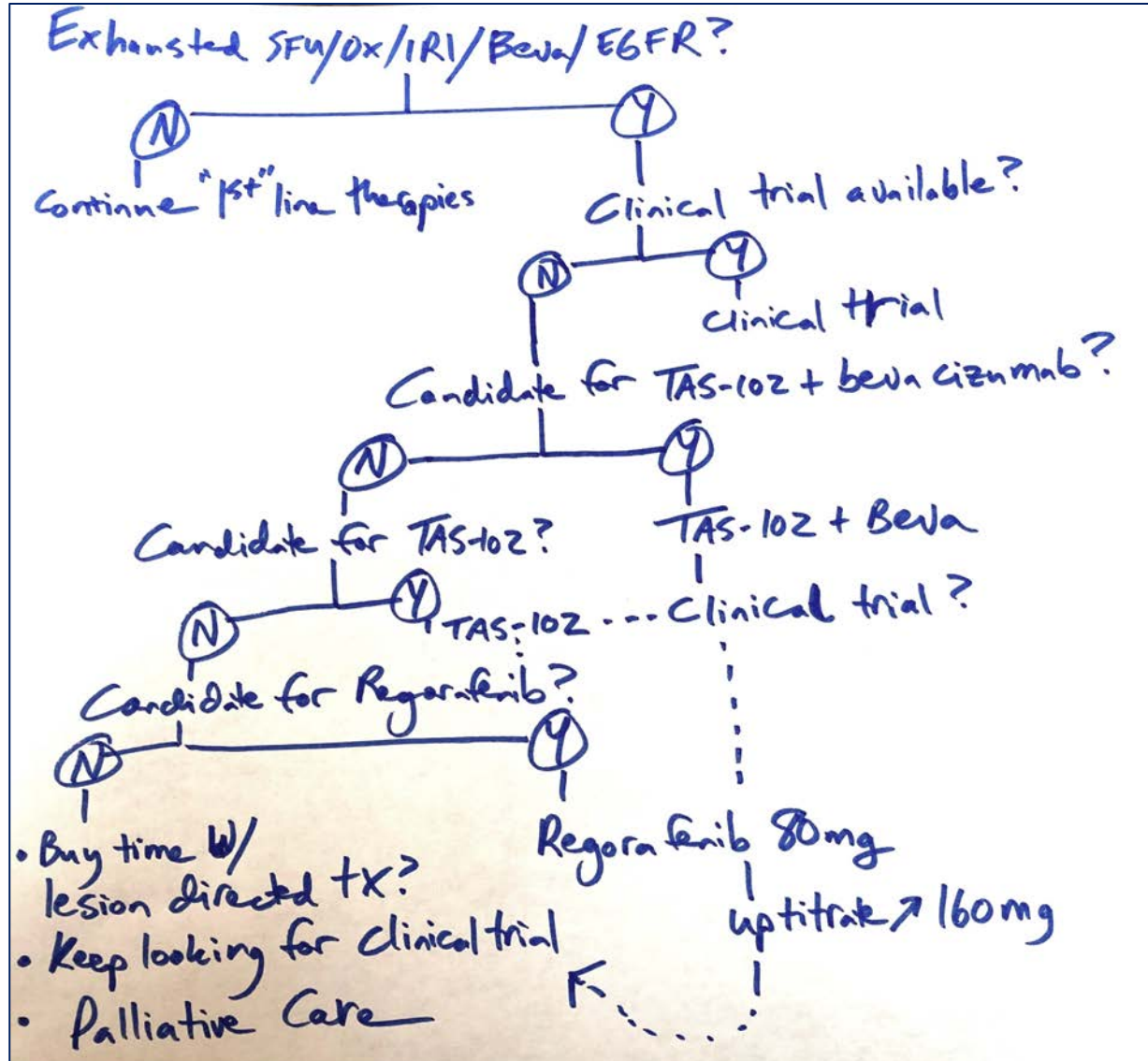


**Dr Reiss Binder**

**I have**



How do you generally sequence regorafenib and TAS-102 for your patients with relapsed/refractory mCRC?  
What clinical, biologic and/or practical factors would influence you to offer a patient with mCRC regorafenib before TAS-102 or vice versa?



## TOXICITIES

**TAS-102:** mainly cytopenias

**Regorafenib**

- all VEGF toxicities
- Black box warning: hepatotoxicity
- Dermatologic: QoL impact

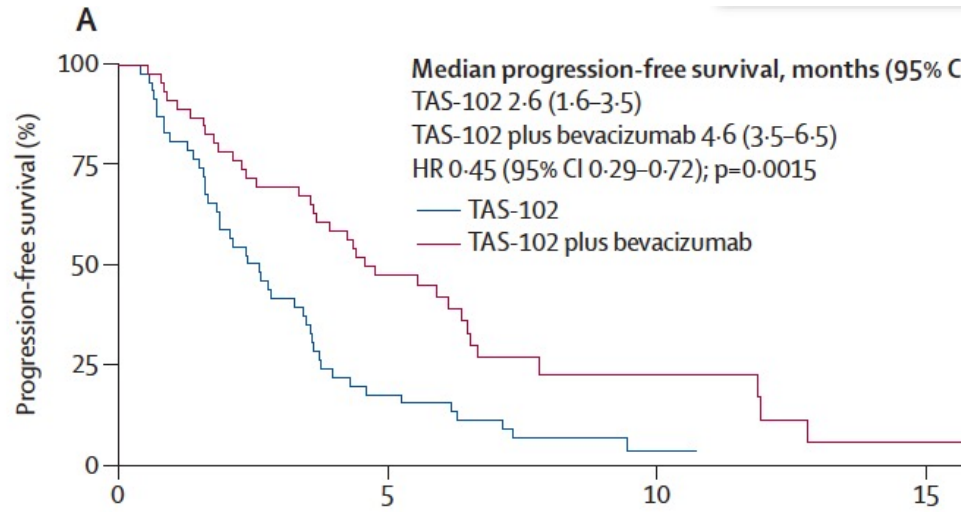
# Regorafenib and TAS-102

- Efficacy similar: OS improvement ~2 mos, low RR  
Regorafenib – CORRECT & CONCUR  
TAS-102 – RECOURSE & TERRA
- Distinct toxicities:
  - TAS-102: **cytopenias** (neutropenia) [diarrhea, fatigue]
  - Regorafenib: hand-foot **skin toxicity**, rash, loss of appetite, fatigue, risk of bleeding, black box warning for liver failure.
- *Patient preference matters.*
- If regorafenib used, start at 50% dose (ReDOSE).

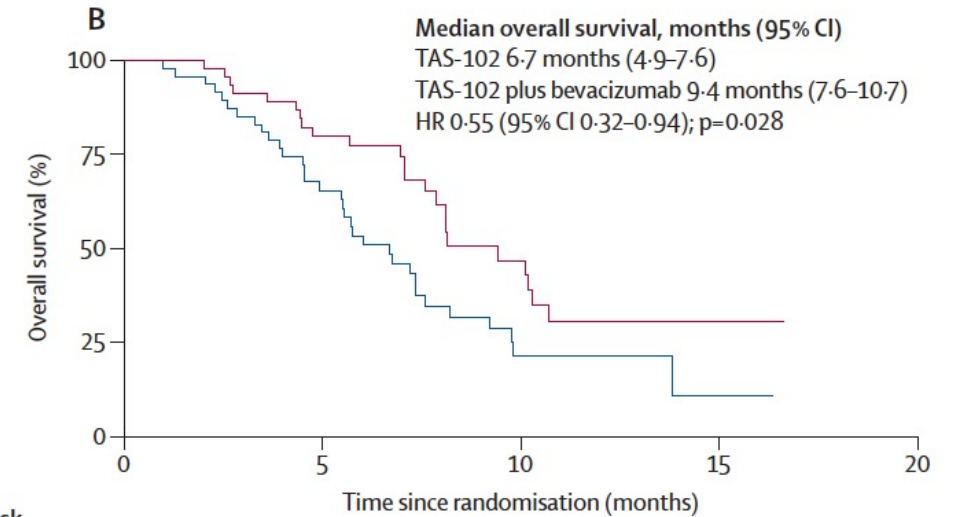
# More on TAS-102: C-TASK FORCE Trial

In pts with refractory and regorafenib-untreated advanced CRC

- RCT: TAS-102 +/- beva (Pfeiffer et al., *Lancet Oncology* 2020)



	0	5	10	15
Number at risk (number censored)				
TAS-102	47 (38)	8 (6)	1 (0)	0
TAS-102 plus bevacizumab	46 (24)	20 (8)	5 (3)	1



	0	5	10	15	20
Number at risk (number censored)					
TAS-102	47 (16)	29 (16)	6 (1)	1 (0)	0
TAS-102 plus bevacizumab	46 (9)	34 (10)	12 (4)	2 (0)	0

*TAS-102 + beva in 2.2021 NCCN Guidelines*

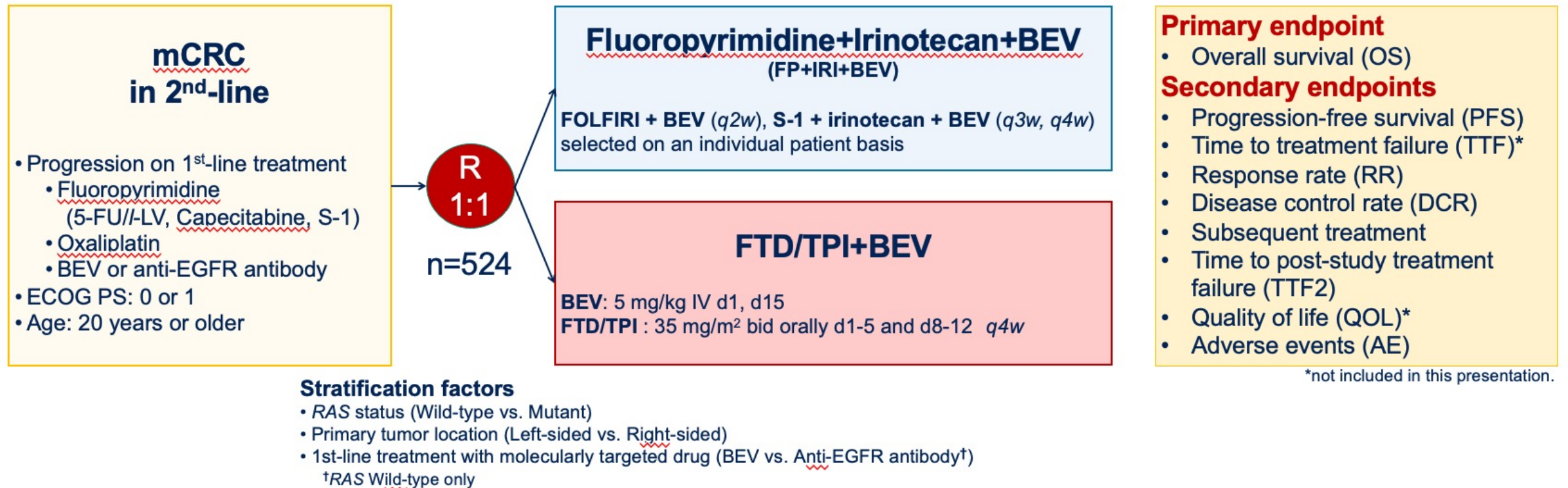
# More on TAS-102: TRUSTY study

Abstract 3507, Dr. Kuboki

Phase 2/3 TAS-102 +beva vs. FOLFIRI +beva as 2<sup>nd</sup> Line

## Non-inferiority

Prior to randomization, either 5-FU or S-1 was declared by each investigator when allocated FP+IRI+BEV.

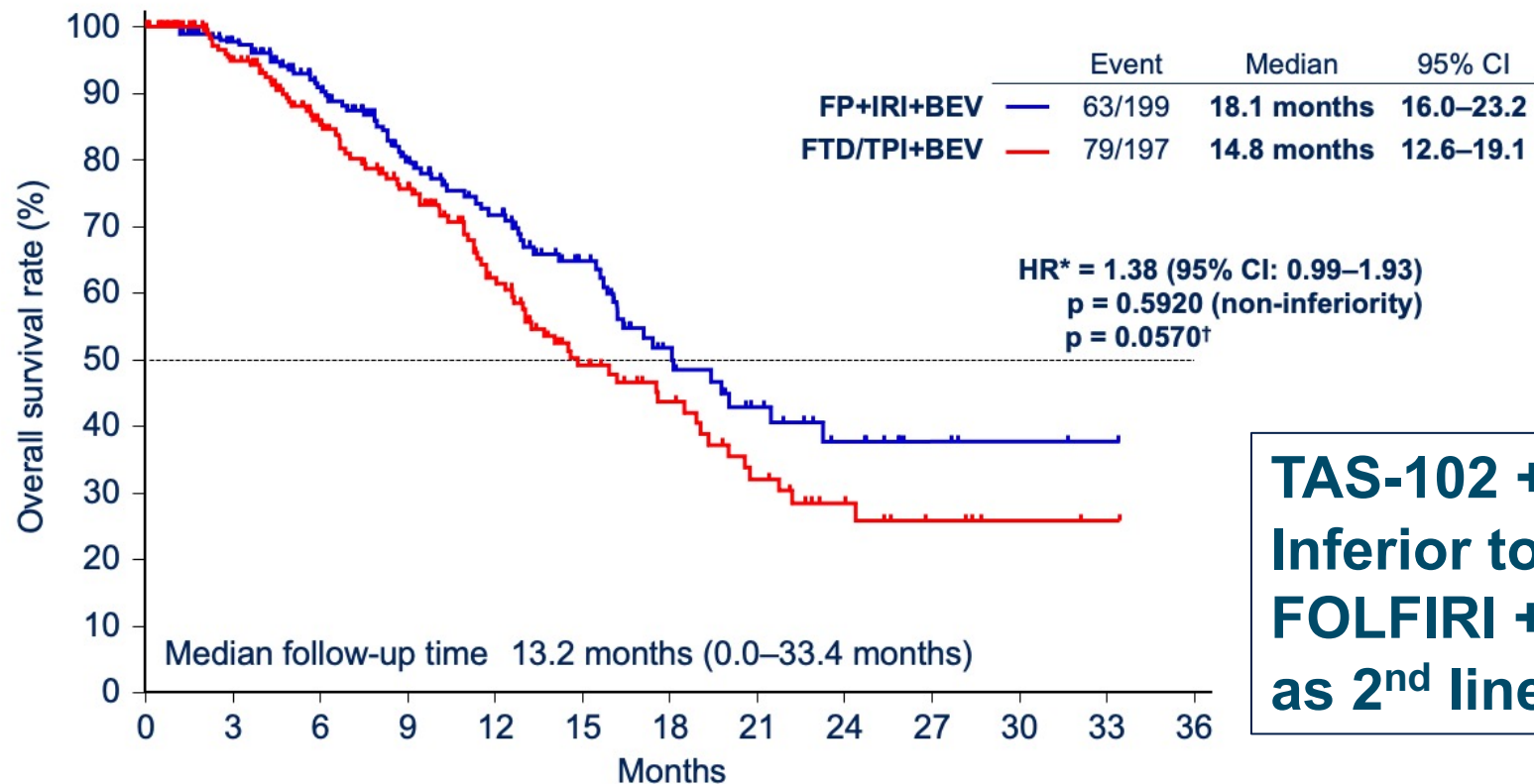




# More on TAS-102: TRUSTY study

Primary endpoint

## Overall survival



Number at risk

FP+IRI+BEV	199	167	134	98	78	54	32	20	12	4	2	1	-
FTD/TPI+BEV	197	163	122	98	66	44	28	19	12	5	2	1	-

**TAS-102 +beva  
Inferior to  
FOLFIRI +beva  
as 2<sup>nd</sup> line therapy**

# What is your preferred sequencing of therapies for HER2-positive mCRC, including T-DXd?



**Dr Tanios Bekaii-Saab**



**Dr Eileen O'Reilly**



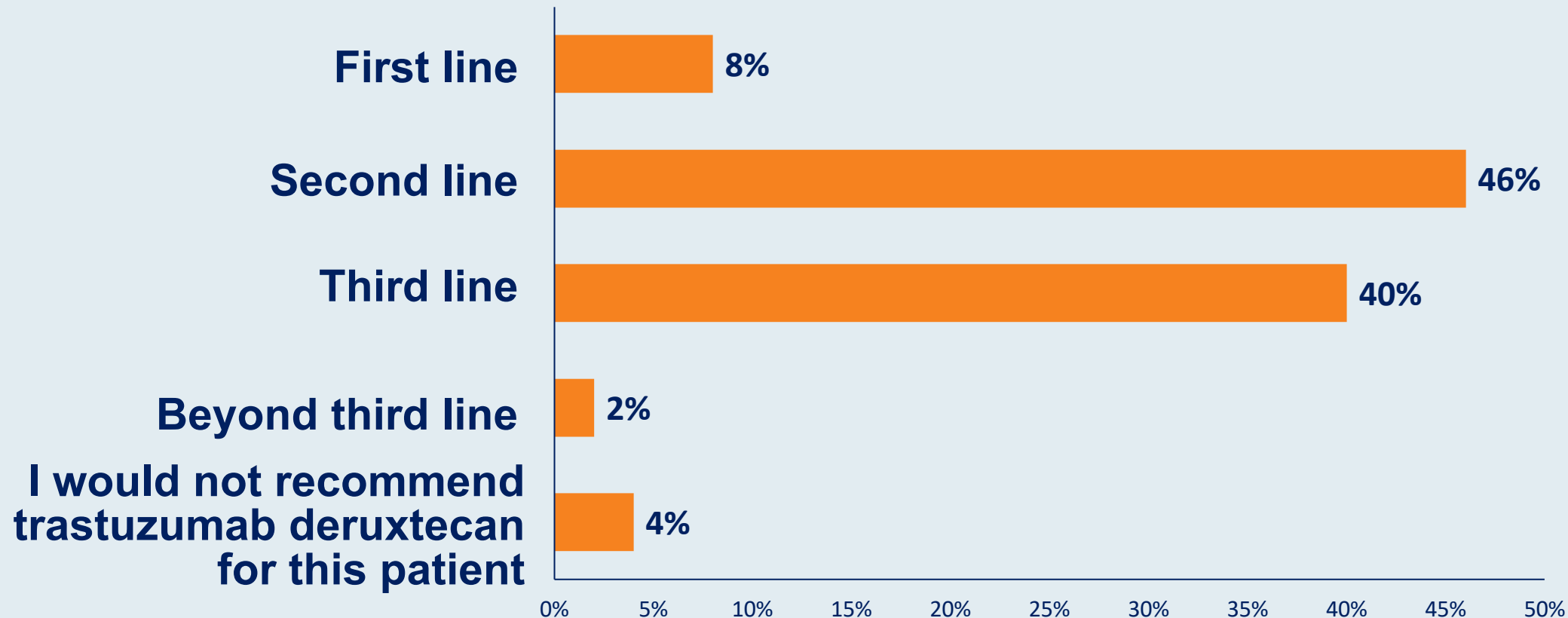
**Dr Philip Philip**



**Dr Kim Reiss Binder**



# Regulatory and reimbursement issues aside, in which line of therapy would you generally recommend trastuzumab deruxtecan for a 65-year-old patient with HER2-positive mCRC?



# Regulatory and reimbursement issues aside, in which line of therapy would you generally recommend trastuzumab deruxtecan for a 65-year-old patient with HER2-positive mCRC?



**Dr Atreya**

**Third line**



**Dr Bekaii-Saab**

**Third line**



**Dr Deming**

**Beyond third line**



**Dr O'Reilly**

**Third line**



**Prof Van Cutsem**

**Third line**



**Dr Philip**

**Third line**



**Dr Wainberg**

**Third line**



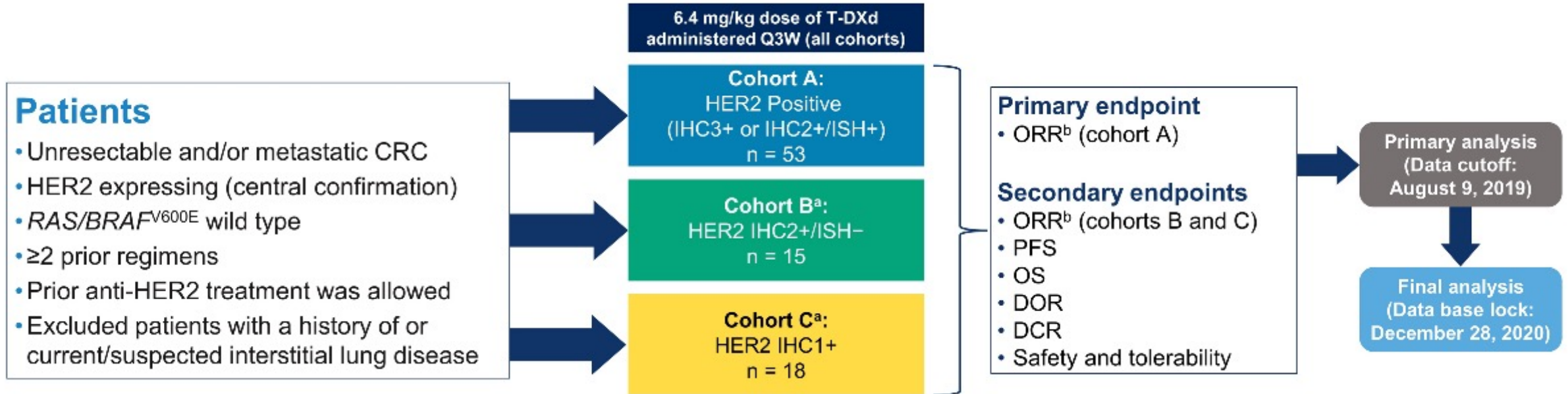
**Dr Reiss Binder**

**Third line**

**At the current time, should patients with HER2-positive mCRC receive trastuzumab deruxtecan at some point in their treatment course? If so, when is the optimal time to do so?**

- ◇ HER2-positive mCRC is a relatively new important subtype of mCRC that deserves specific considerations.
- ◇ This subtype typically does well with standard FOLFOX or FOLFIRI.
- ◇ In the refractory setting, the use of trastuzumab/pertuzumab has become a standard of care.
- ◇ The DESTINY-CRC01 trial demonstrated exciting activity for trastuzumab deruxtecan, even in the setting of resistance to prior HER2 targeting.
- ◇ This therapy should be considered after progression on trastuzumab/pertuzumab.
- ◇ Care needs to be taken when monitoring for toxicities, especially ILD.

# DESTINY-CRC01: Trastuzumab deruxtecan in patients with HER2-expressing metastatic colorectal cancer





# DESTINY-CRC01

	HER2 IHC3+ or IHC2+/ ISH+ Cohort A (n = 53)	HER2 IHC2+/ ISH- Cohort B (n = 15)	HER2 IHC1+ Cohort C (n = 18)
<b>Confirmed ORR by ICR, n (%) [95% CI]</b>	<b>24 (45.3)</b> [31.6-59.6]	<b>0</b> [0.0-21.8]	<b>0</b> [0.0-18.5]
CR	0	0	0
PR	24 (45.3)	0	0
SD	20 (37.7)	9 (60.0)	4 (22.2)
PD	5 (9.4)	5 (33.3)	10 (55.6)
Not evaluable <sup>a</sup>	4 (7.5)	1 (6.7)	4 (22.2)
<b>Disease control rate, % (95% CI)</b>	<b>83.0 (70.2-91.9)</b>	<b>60.0 (32.3-83.7)</b>	<b>22.2 (6.4-47.6)</b>
<b>Median duration of response, (95% CI) months</b>	<b>7.0 (5.8-9.5)</b>	<b>NE (NE-NE)</b>	<b>NE (NE-NE)</b>
<b>Median treatment duration, (95% CI) months</b>	<b>5.1 (3.9-7.6)</b>	<b>2.1 (1.4-2.6)</b>	<b>1.4 (1.3-1.5)</b>

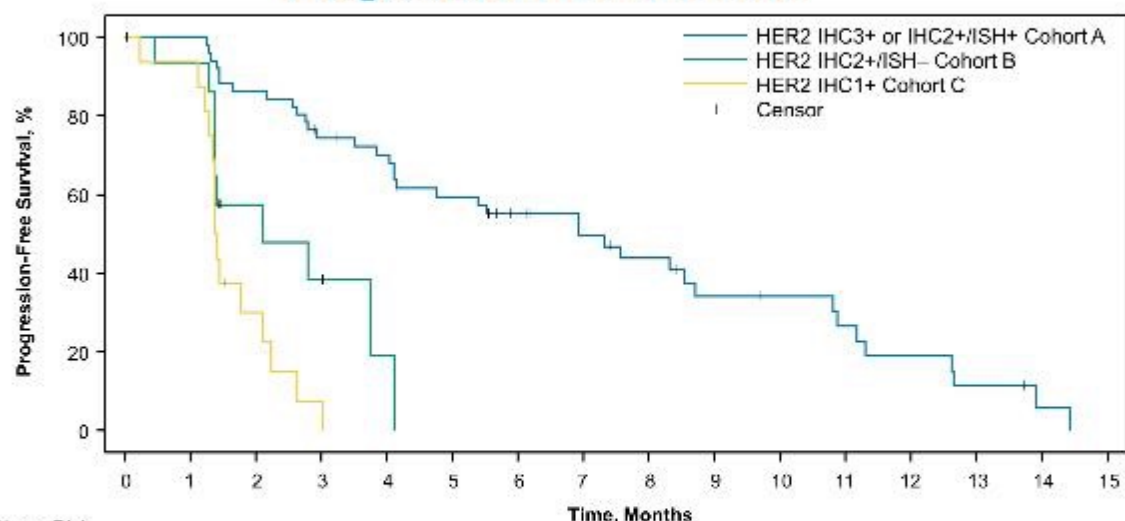




# DESTINY-CRC01

## Progression-Free and Overall Survival

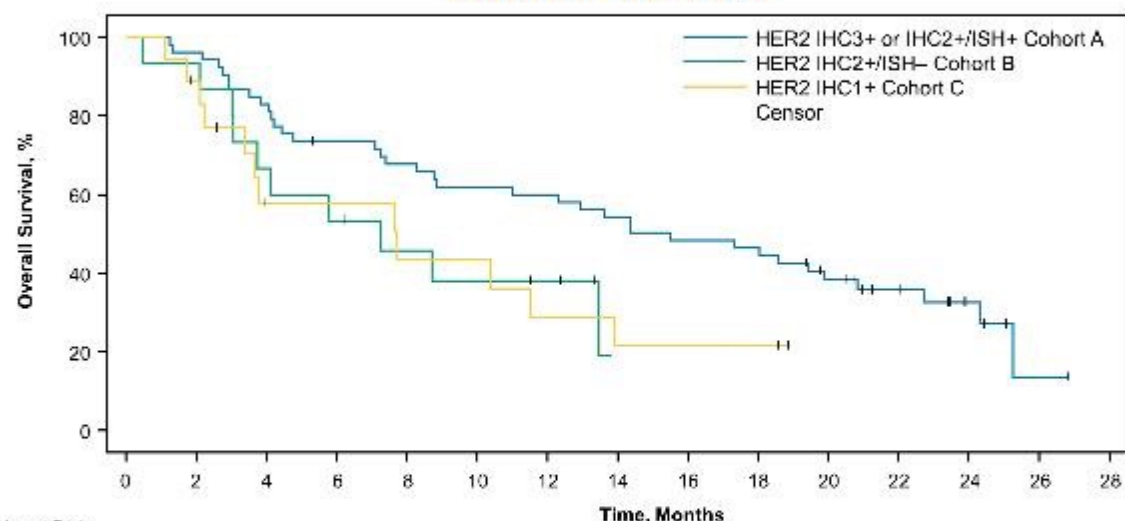
### Progression-Free Survival



No. at Risk	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cohort A	53	51	44	36	33	27	22	18	15	10	9	7	5	3	1	0
Cohort B	15	14	6	4	1	0	0	0	0	0	0	0	0	0	0	0
Cohort C	18	15	4	1	0	0	0	0	0	0	0	0	0	0	0	0

	HER2 IHC3+ or IHC2+/ISH+ Cohort A (n = 53)	HER2 IHC2+/ISH- Cohort B (n = 15)	HER2 IHC1+ Cohort C (n = 18)
mPFS (95% CI), months	6.9 (4.1-8.7)	2.1 (1.4-4.1)	1.4 (1.3-2.1)

### Overall Survival



No. at Risk	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
Cohort A	53	51	44	38	35	32	31	28	25	24	18	12	6	1	0
Cohort B	15	14	10	8	6	5	4	0	0	0	0	0	0	0	0
Cohort C	18	15	8	8	6	6	4	3	3	2	0	0	0	0	0

	HER2 IHC3+ or IHC2+/ISH+ Cohort A (n = 53)	HER2 IHC2+/ISH- Cohort B (n = 15)	HER2 IHC1+ Cohort C (n = 18)
mOS (95% CI), months	15.5 (8.8-20.8)	7.3 (3.0-NE)	7.7 (2.2-13.9)

# DESTINY-CRC01 – Interstitial lung disease

All Patients (N=86)	n (%)
Grade 1	0
Grade 2	4 (4.7)
Grade 3	1 (1.2)
Grade 4	0
Grade 5	3 (3.5) <sup>a</sup>
Any Grade/Total	8 (9.3) <sup>b,c</sup>

## Adjudicated drug-related ILDs:

- Median time to adjudicated onset was 61.0 days (range, 9-165 days)
- 8 of 8 patients received corticosteroids
- 4 patients with grade 2 recovered and 1 patient with grade 3 did not recover (later died due to disease progression)
- Median time from adjudicated onset date to initiation of steroid treatment in the 8 ILD cases was 3.5 days, (range 0-50)

## Grade 5 ILDs:

- In the 3 fatal cases adjudicated as drug-related ILD, onset was from 9 days to 120 days (median: 22 days); and death occurred 6-19 days after diagnosis (median: 6 days)

**Updated ILD/pneumonitis guidelines recommend to monitor for symptoms, interrupt or discontinue T-DXd, conduct imaging (as clinically indicated), and start steroids as soon as ILD is suspected.**

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- What is the current role of intrahepatic arterial chemotherapy for patients with predominant liver metastases?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- Any upcoming trial of KRAS inhibitor that looks promising?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- Does *Oncotype DX*<sup>®</sup> colon have any real value?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- Second line therapy use in left-sided vs right-sided CRC. Any difference in usage of drugs?  
Role of trastuzumab deruxtecan in HER2+ metastatic CRC



# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- BRAF treatment in first line?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- Would you use IO therapy in MSS patient with TMB>10?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- Will CAR T-cell therapy work in mCRC?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- How often would you retest with liquid biopsy? At every progression?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- If resectable oligometastatic liver lesion — resect upfront or systemic therapy and then resect?

# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- Adjuvant therapy for 85-year-old woman left side colon with MSI high, poor ECOG, how long to give IO? 6 months, 1 year or...?



# Webinar Registrant Questions for the Faculty

## Colorectal Cancer

- First line treatment for BRAF V600E mutated mCRC (BEACON combined with chemo vs chemo) while we are waiting for the BREAKWATER study result

# Consensus or Controversy? Clinical Investigator Perspectives on the Current and Future Management of Hepatocellular Carcinoma and Pancreatic Cancer

Wednesday, August 4, 2021  
5:00 PM – 6:30 PM ET

## Faculty

Tanios Bekaii-Saab, MD  
Kim A Reiss Binder, MD  
Eileen M O'Reilly, MD  
Philip A Philip, MD, PhD, FRCP

## Moderator

Neil Love, MD



***Thank you for joining us!***

***CME and MOC credit information will be emailed to each participant within 2-3 business days.***