

# **What I Tell My Patients: New Treatments and Clinical Trial Options**

*A 2-Part Complimentary NCPD Webinar Series*

## **Gastroesophageal Cancers**

**Wednesday, May 18, 2022**

**5:00 PM – 6:00 PM ET**

### **Faculty**

**Kristen K Ciombor, MD, MSCI**

**Jessica Mitchell, APRN, CNP, MPH**

### **Moderator**

**Neil Love, MD**

# Faculty



**Kristen K Ciombor, MD, MSCI**

Associate Professor of Medicine  
Division of Hematology/Oncology  
Vanderbilt-Ingram Cancer Center  
Nashville, Tennessee



**Moderator**

**Neil Love, MD**

Research To Practice  
Miami, Florida



**Jessica Mitchell, APRN, CNP, MPH**

Assistant Professor of Oncology  
Mayo Clinic College of Medicine and Science  
Rochester, Minnesota

## Commercial Support

This activity is supported by educational grants from Astellas and Lilly.

## 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, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma Corp, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab, 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, Mersana Therapeutics Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sanofi Genzyme, Seagen Inc, Servier Pharmaceuticals LLC, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc and Zymeworks 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.

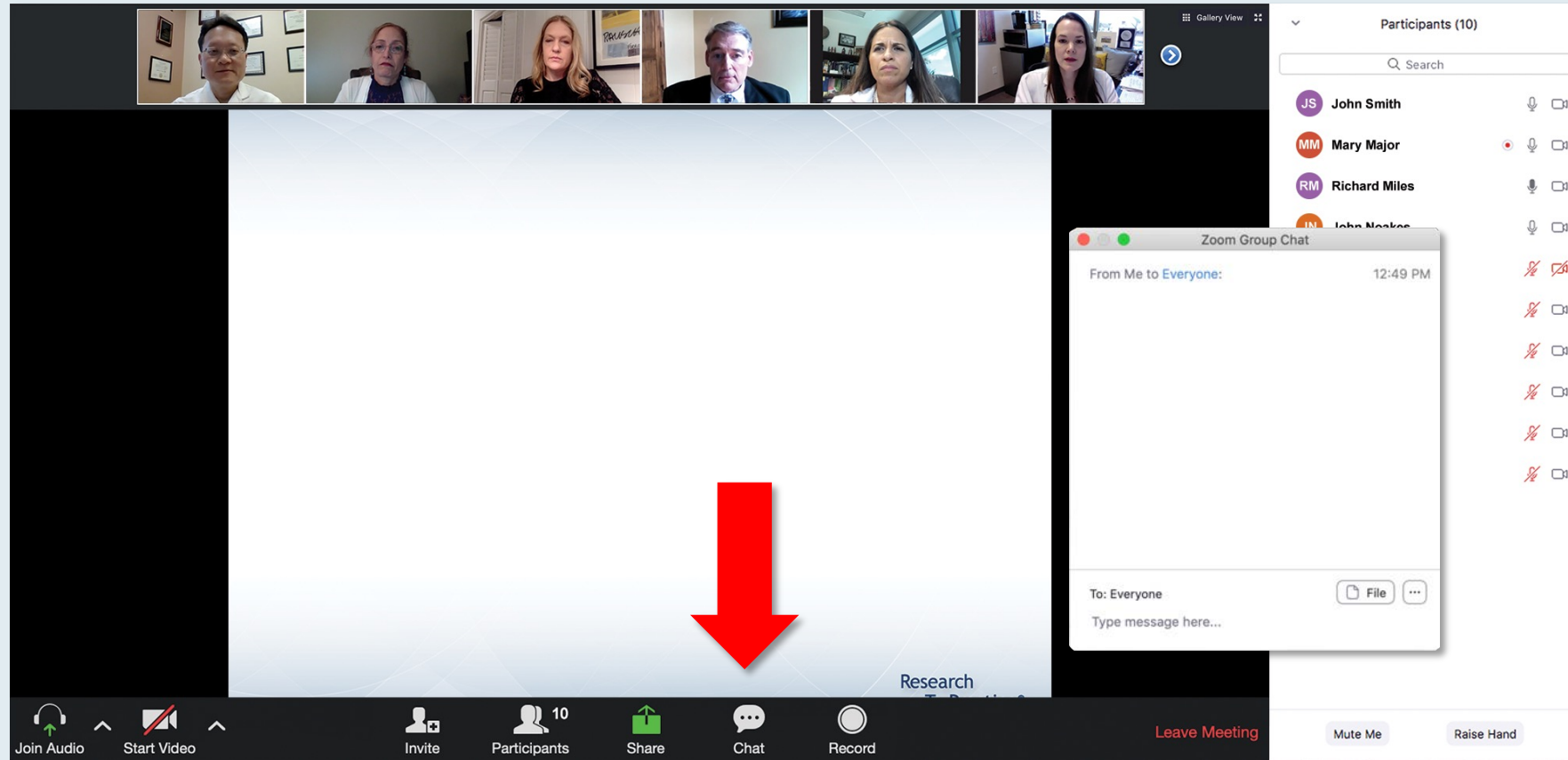
## Dr Ciombor — Disclosures

<b>Advisory Committee</b>	Array BioPharma Inc, a subsidiary of Pfizer Inc, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Personalis Inc, Pfizer Inc, Replimune
<b>Consulting Agreements</b>	Merck, Pfizer Inc, Seagen Inc
<b>Contracted Research</b>	Bristol-Myers Squibb Company, Calithera Biosciences, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, Incyte Corporation, Merck, NuCana, Pfizer Inc

# Ms Mitchell — Disclosures

No relevant conflicts of interest to disclose.

# 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

## Expand chat submission box

The screenshot displays a Zoom meeting interface. At the top, there's a header bar with participant names: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below this, a slide titled "Meet The Professor Program Participating Faculty" is shown. The slide lists six faculty members with their photos and titles:

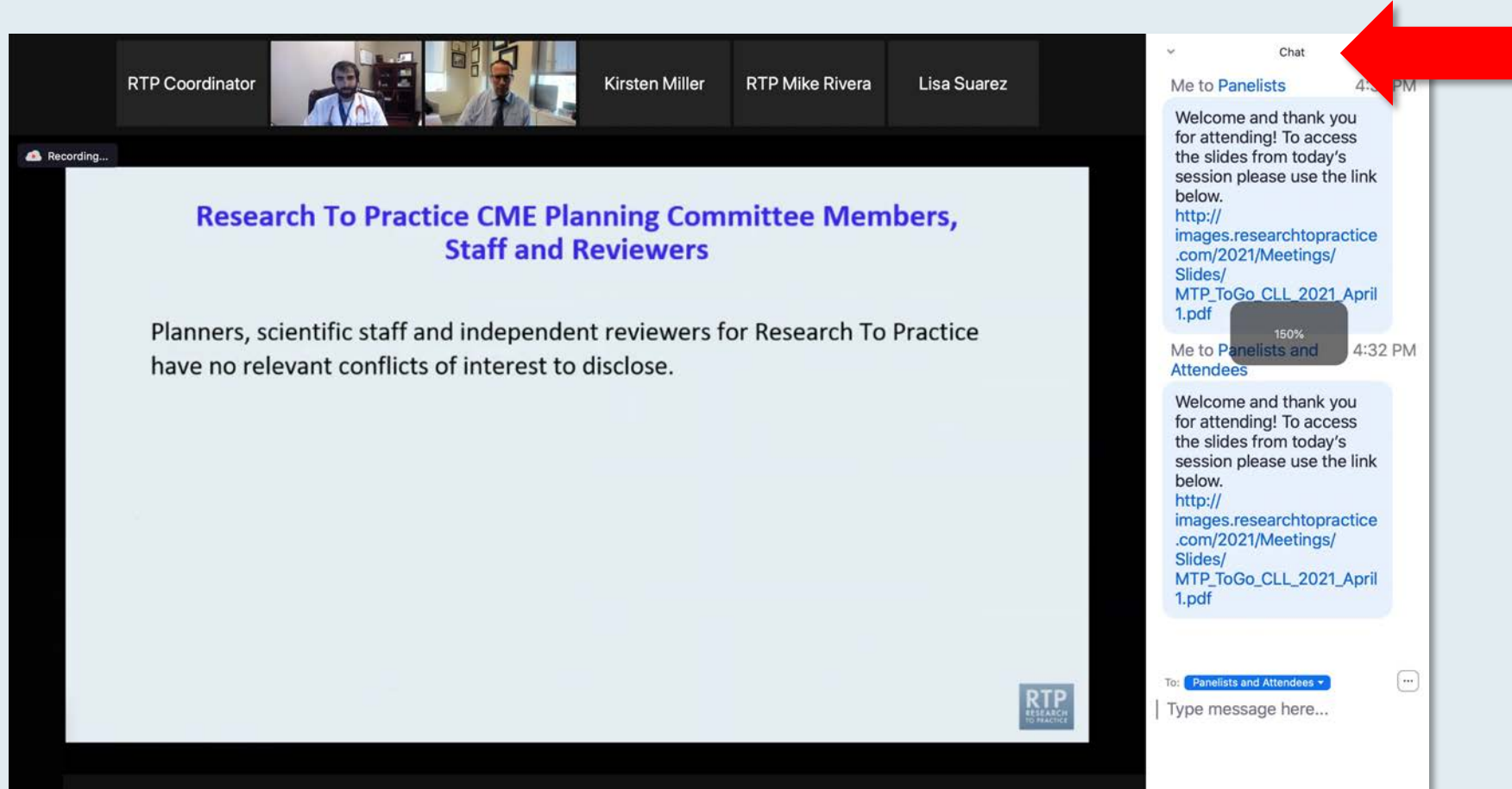
- Nancy L Bartlett, MD**  
Professor of Medicine  
Koman Chair in Medical Oncology  
Washington University School of Medicine  
St Louis, Missouri
- Jonathan W Friedberg, MD, MMSc**  
Samuel E Durand Professor of Medicine  
Director, James P Wilmot Cancer Institute  
University of Rochester  
Rochester, New York
- Carla Casulo, MD**  
Associate Professor of Medicine  
Division of Hematology/Oncology  
Director, Hematology/Oncology Fellowship Program  
University of Rochester  
Wilmot Cancer Institute  
Rochester, New York
- Brian T Hill, MD, PhD**  
Director, Lymphoid Malignancy Program  
Cleveland Clinic Taussig Cancer Institute  
Cleveland, Ohio
- Christopher R Flowers, MD, MS**  
Chair, Professor  
Department of Lymphoma/Myeloma  
The University of Texas MD Anderson Cancer Center  
Houston, Texas
- Brad S Kahl, MD**  
Professor of Medicine  
Washington University School of Medicine  
Director, Lymphoma Program  
Siteman Cancer Center  
St Louis, Missouri

On the right side, a chat window is open. It shows two messages from "Me to Panelists" and "Me to Panelists and Attendees". At the bottom of the chat window, there's a white line above the submission box, which is highlighted by a red arrow. The submission box contains the text "Type message here..." and a dropdown menu set to "Panelists and Attendees".

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

## Gastroesophageal Cancers



DR SAMUEL KLEMPNER

MASSACHUSETTS  
GENERAL HOSPITAL



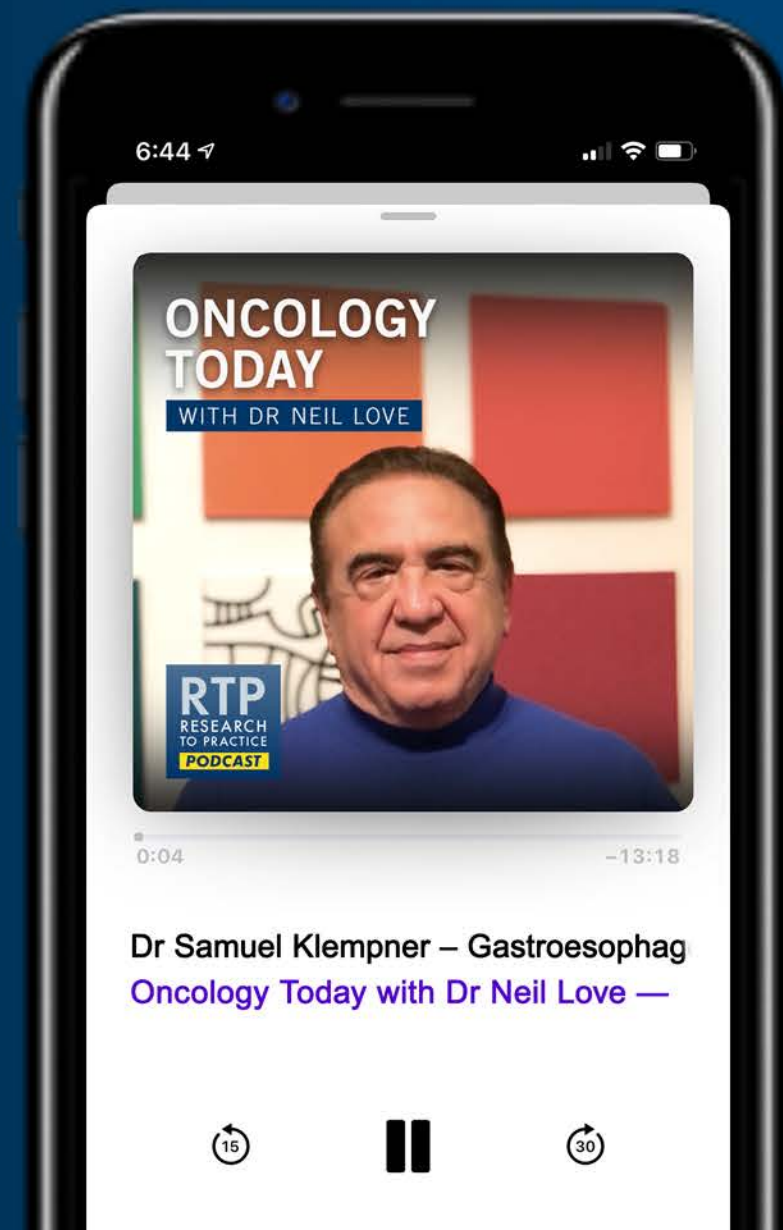
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# **Clinical Investigator Perspectives on the Management of Renal Cell Carcinoma**

**Thursday, May 19, 2022**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Thomas E Hutson, DO, PharmD**

**Brian I Rini, MD**

## **Moderator**

**Neil Love, MD**



# ***Meet The Professor***

## **Current and Future Management of Chronic Lymphocytic Leukemia**

**Tuesday, May 24, 2022  
5:00 PM – 6:00 PM ET**

**Faculty**

**Susan O'Brien, MD**

**Moderator**

**Neil Love, MD**

# ***Meet The Professor***

## **Current and Future Management of Myelofibrosis**

**Wednesday, May 25, 2022  
5:00 PM – 6:00 PM ET**

**Faculty**

**John Mascarenhas, MD**

**Moderator**

**Neil Love, MD**

# ***Meet The Professor***

## **Optimizing the Management of Gastroesophageal Cancers**

**Thursday, May 26, 2022  
5:00 PM – 6:00 PM ET**

**Faculty**

**Harry H Yoon, MD**

**Moderator**

**Neil Love, MD**

# Exciting CME Events in Chicago You Do Not Want to Miss

*A CME Hybrid Symposium Series Held in Conjunction with the 2022 ASCO Annual Meeting*

## Acute Myeloid Leukemia and Myelodysplastic Syndromes

**Friday, June 3, 2022**

11:45 AM – 12:45 PM CT (12:45 PM – 1:45 AM ET)

### Faculty

Courtney D DiNardo, MD, MSCE

Michael R Savona, MD

Eunice S Wang, MD

## Prostate Cancer

**Saturday, June 4, 2022**

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

### Faculty

Andrew J Armstrong, MD, ScM

Alan H Bryce, MD

Alicia K Morgans, MD, MPH

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6:30 PM – 9:00 PM CT (7:30 PM – 10:00 PM ET)

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Corey J Langer, MD

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Heather Wakelee, MD

Jared Weiss, MD

Helena Yu, MD

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Kristen K Ciombor, MD, MSCI

Eileen M O'Reilly, MD

Philip A Philip, MD, PhD, FRCP

John Strickler, MD

Eric Van Cutsem, MD, PhD

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## Ovarian Cancer

**Sunday, June 5, 2022**

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

### Faculty

Antonio González-Martín, MD, PhD

Joyce F Liu, MD, MPH

Kathleen N Moore, MD, MS

## Bladder Cancer

**Monday, June 6, 2022**

6:45 AM – 7:45 AM CT (7:45 AM – 8:45 AM ET)

### Faculty

Yohann Loriot, MD, PhD

Elizabeth R Plimack, MD, MS

Jonathan E Rosenberg, MD

## Chronic Lymphocytic Leukemia and Non-Hodgkin Lymphoma

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Brian T Hill, MD, PhD

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Ajai Chari, MD

Elizabeth O'Donnell, MD

Robert Z Orlowski, MD, PhD

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

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

**What I Tell My Patients:  
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*An NCPD Program for Oncology Nurses*

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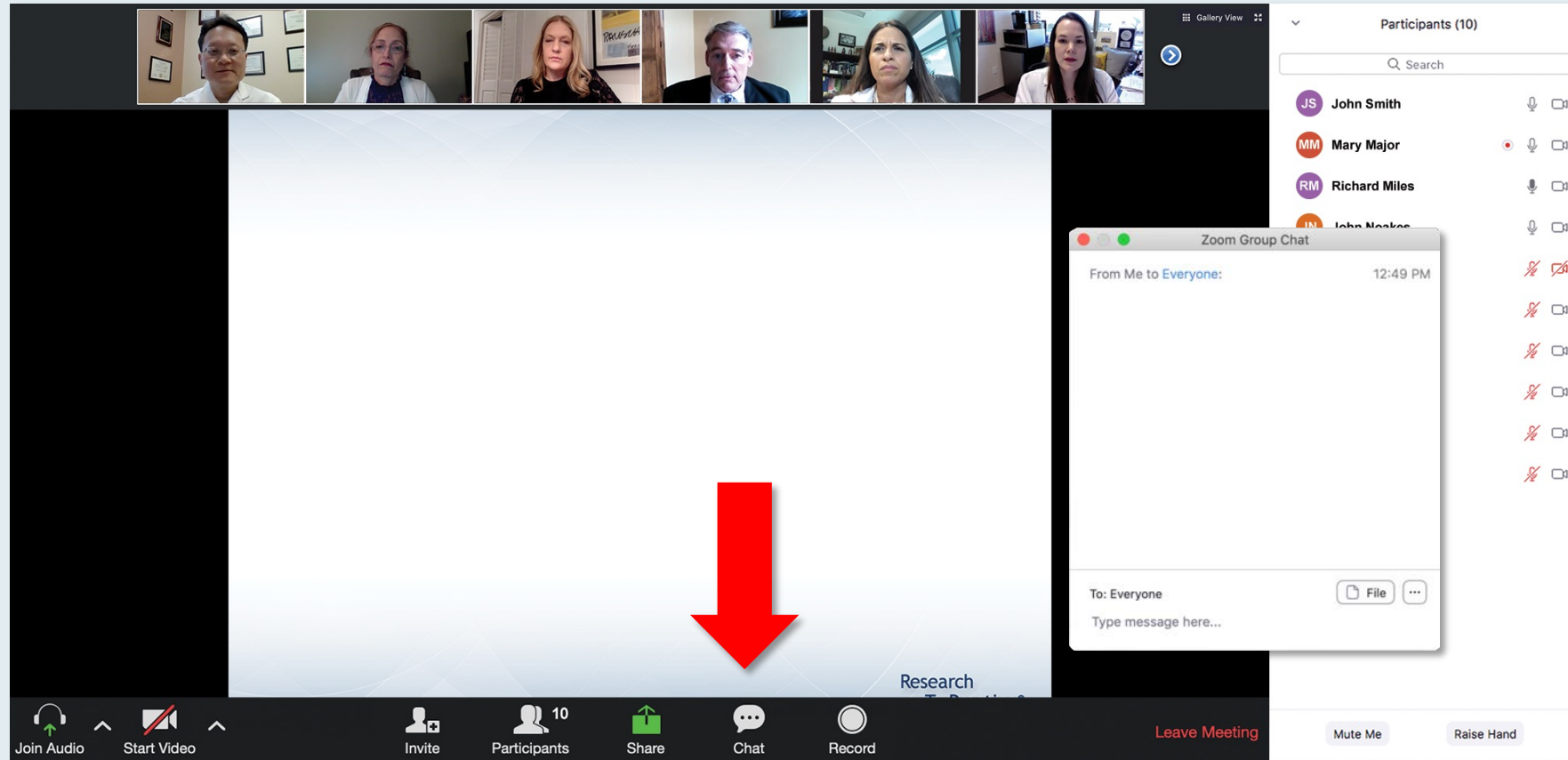


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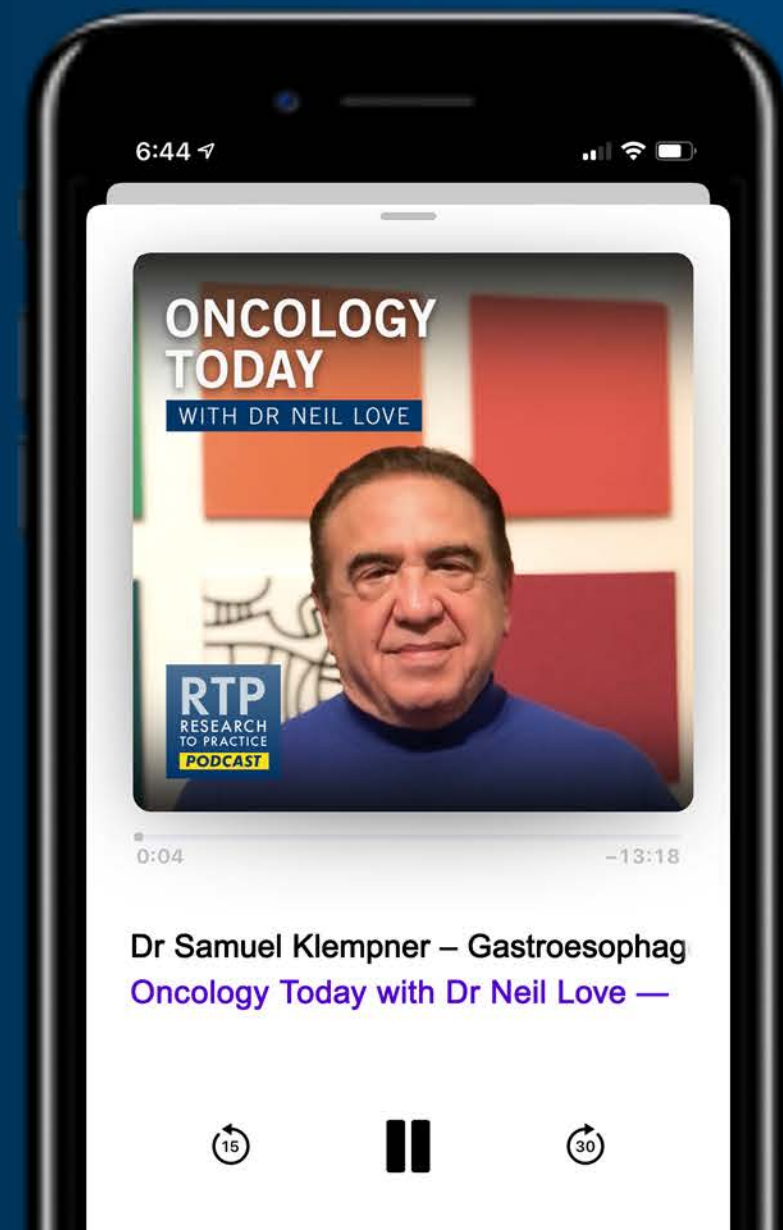
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Assistant Professor of Oncology  
Mayo Clinic College of Medicine and Science  
Rochester, Minnesota

# **The Core Oncology Triad**

## **Developing an Individualized Oncology Strategy**





# **Agenda:**

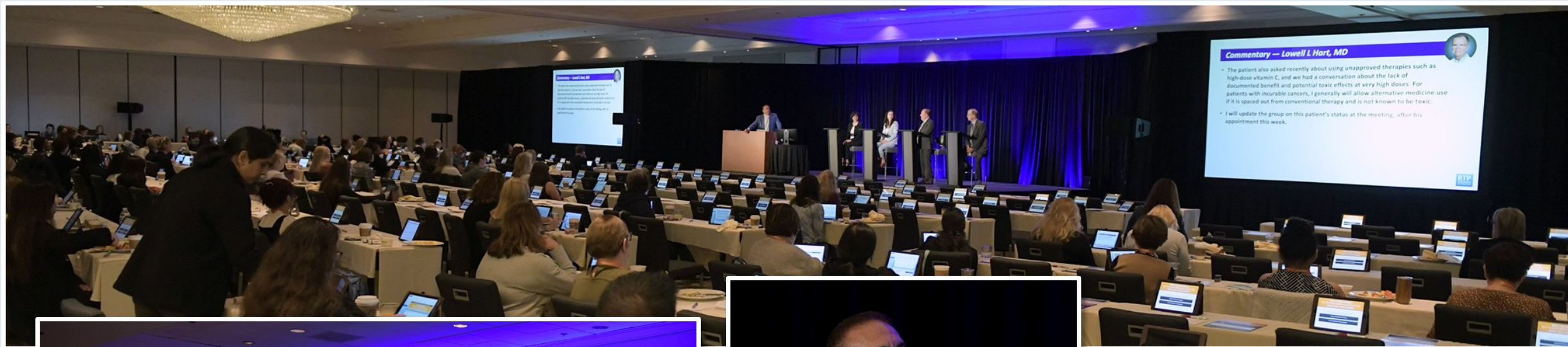
## **Management of Gastroesophageal Cancers**

**Introduction – Overview**

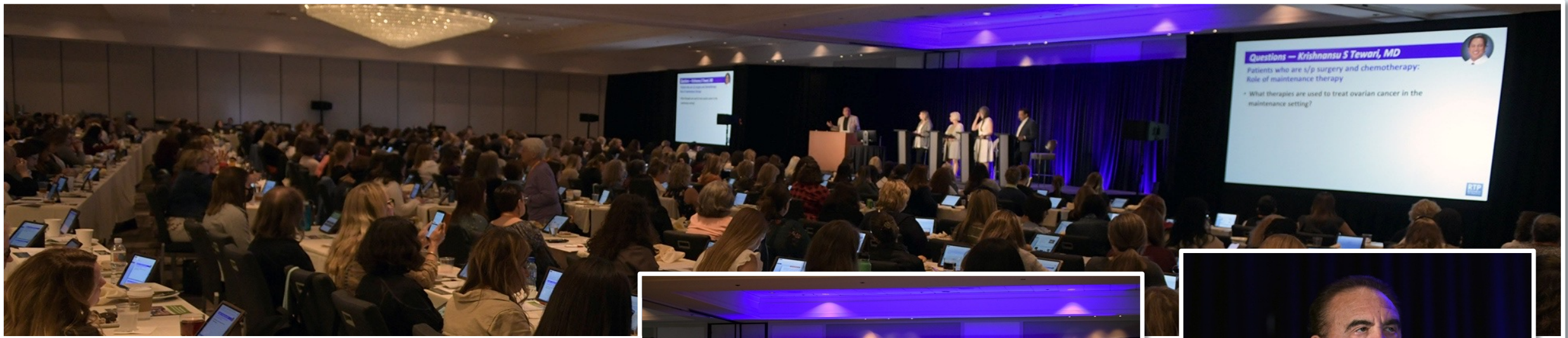
**Module 1 – Management of Localized Disease**

**Module 2 – Management of HER2-Negative Metastatic Disease**

**Module 3 – Management of HER2-Positive Metastatic Disease**











# Agenda:

## Management of Gastroesophageal Cancers

### Introduction – Overview

**Module 1 – Management of Localized Disease**

**Module 2 – Management of HER2-Negative Metastatic Disease**

**Module 3 – Management of HER2-Positive Metastatic Disease**

# Key Questions in Upper Gastrointestinal Cancers

**What are the incidence and mortality trends in gastrointestinal (GI) cancers, and are more patients being diagnosed at an earlier age?**



The NEW ENGLAND JOURNAL of MEDICINE

REVIEW ARTICLE

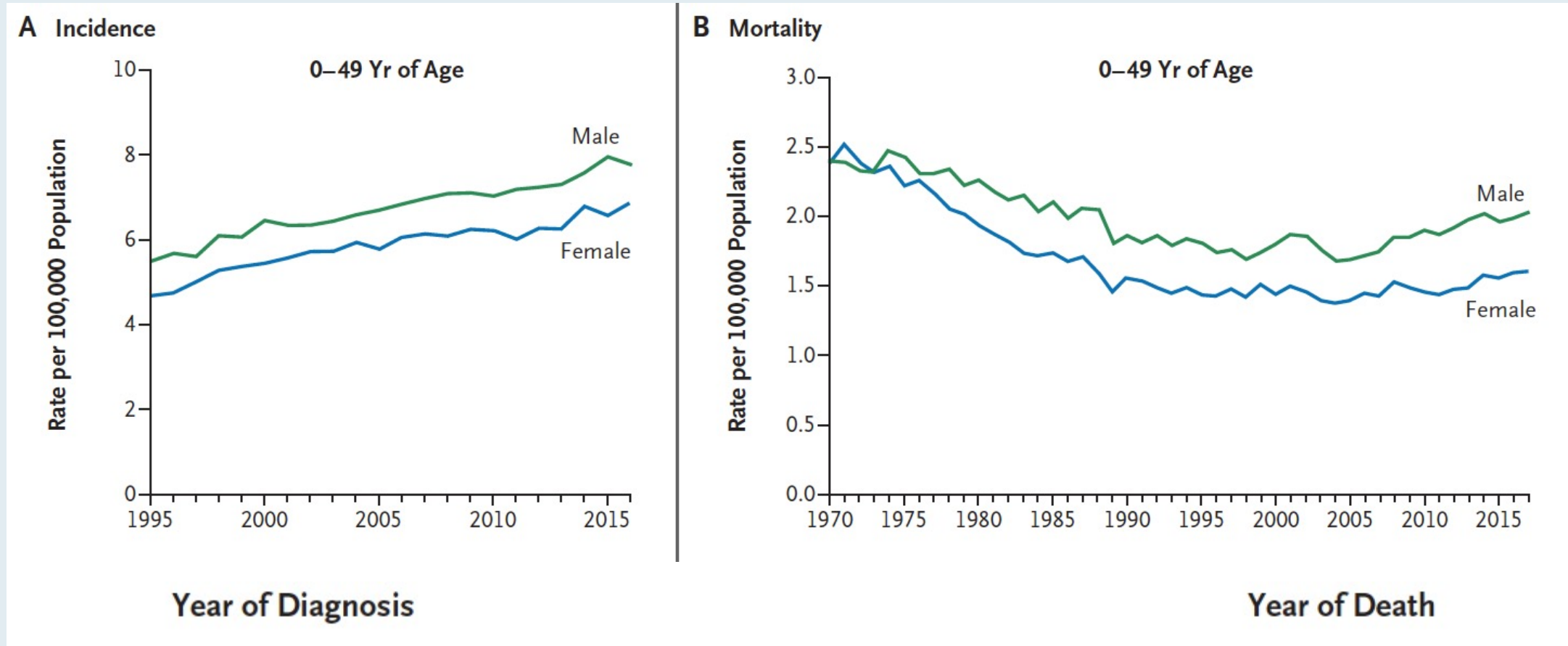
Dan L. Longo, M.D., *Editor*

# Increasing Incidence of Early-Onset Colorectal Cancer

Frank A. Sinicrope, M.D.

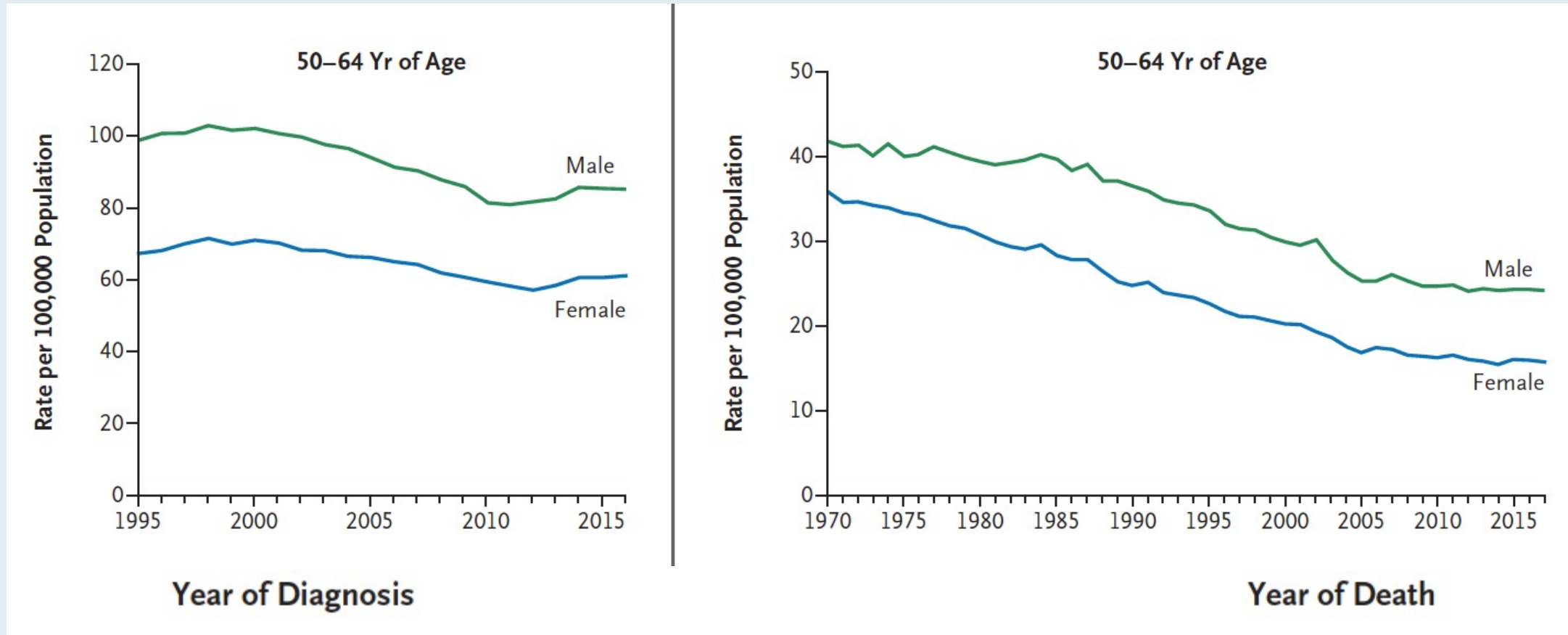
***N Engl J Med 2022;386(16):1547-58.***

# Trends in Colorectal Cancer Incidence (1995–2016) and Mortality (1970–2017) in the United States: 0-49 Years of Age

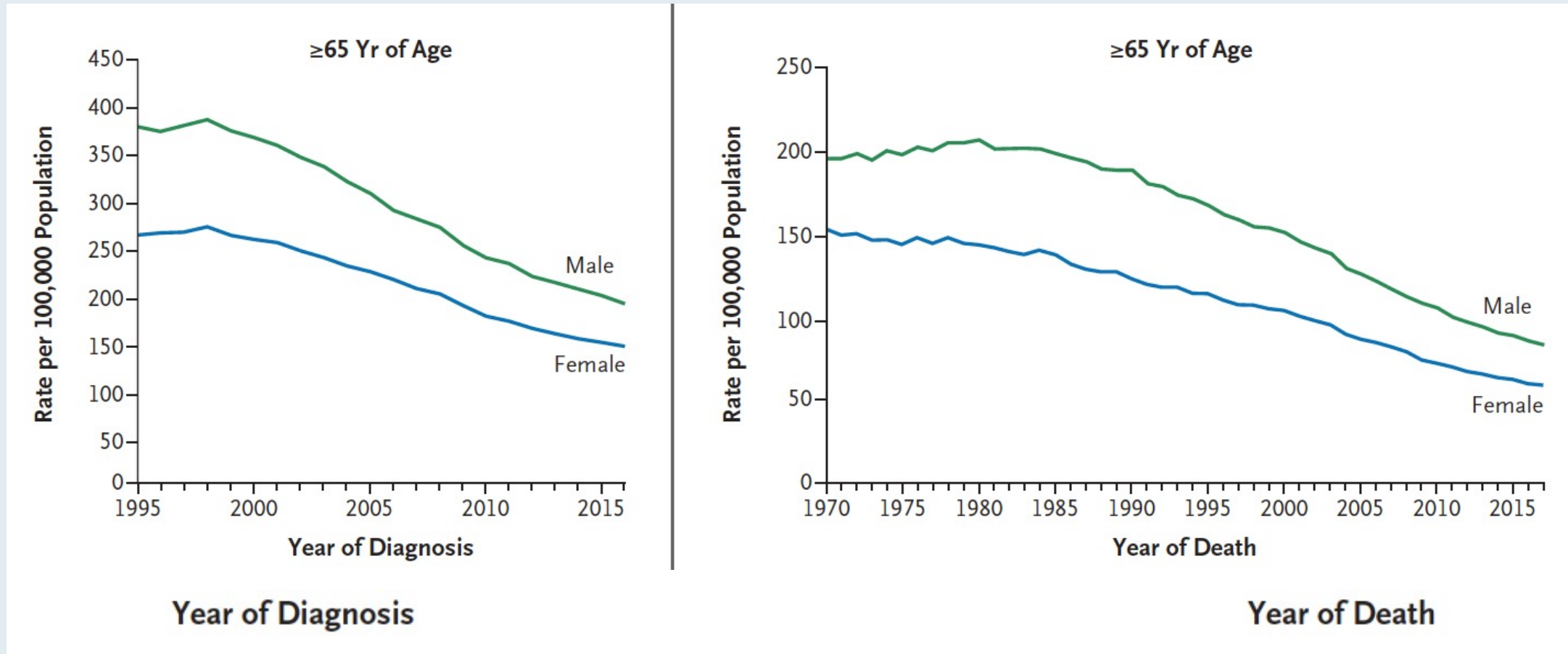




# Trends in Colorectal Cancer Incidence (1995–2016) and Mortality (1970–2017) in the United States: 50-64 Years of Age



# Trends in Colorectal Cancer Incidence (1995–2016) and Mortality (1970–2017) in the United States: 65 Years of Age or Older





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**Original Investigation** | Gastroenterology and Hepatology

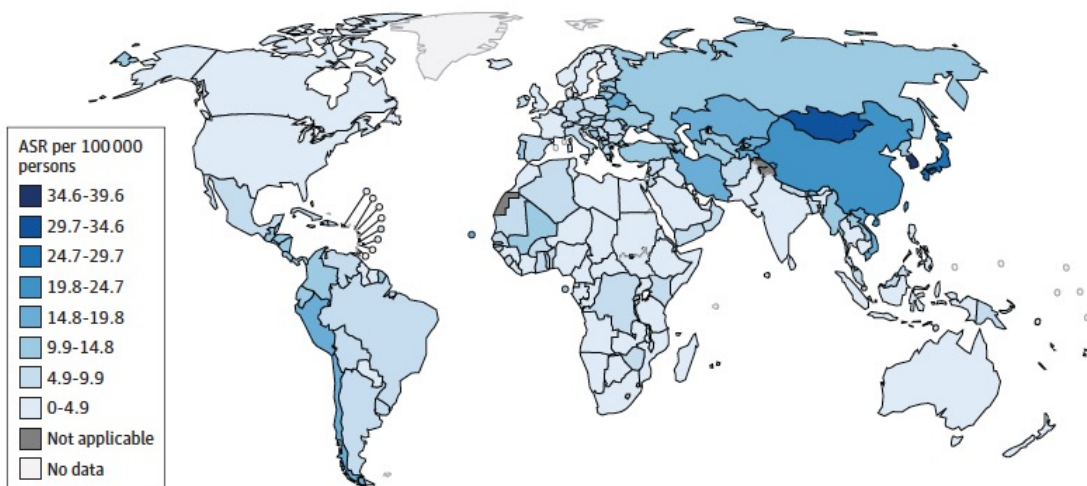
# Global Incidence and Mortality of Gastric Cancer, 1980-2018

Martin C. S. Wong, MD, MPH; Junjie Huang, MD, MSc; Paul S. F. Chan, MEd; Peter Choi, BSc; Xiang Qian Lao, PhD; Shannon Melissa Chan, MBChB; Anthony Teoh, MD; Peter Liang, MD

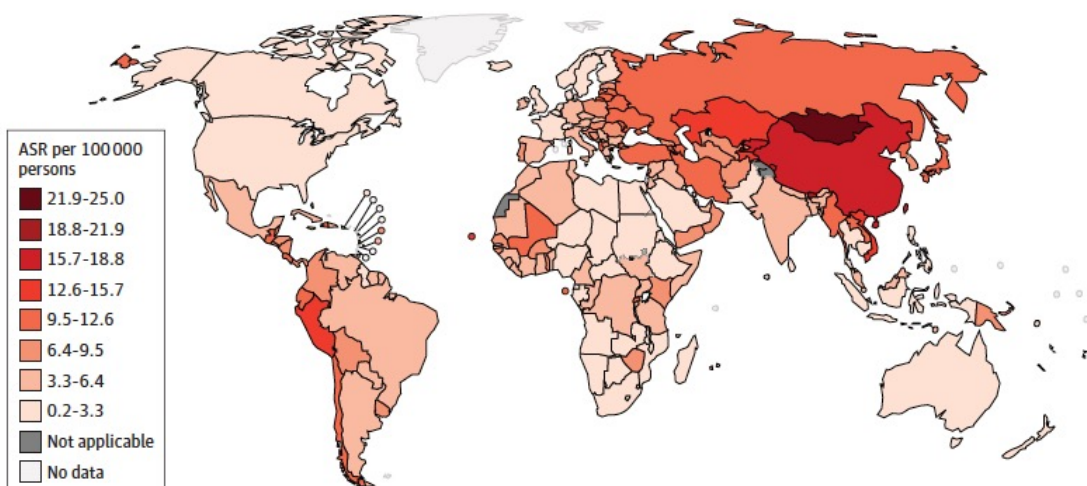
***JAMA Netw Open 2021;4(7):e2118457.***

# Global Incidence of Gastric Cancer

**A** Global estimated incidence of gastric cancer in 2018, both sexes, all ages



**B** Global estimated mortality of gastric cancer in 2018, both sexes, all ages





# Average Annual Percent Change (AAPC) of the Incidence of Gastric Cancer in Individuals 40 Years or Older

AAPC among males and females by global region and country

## North America

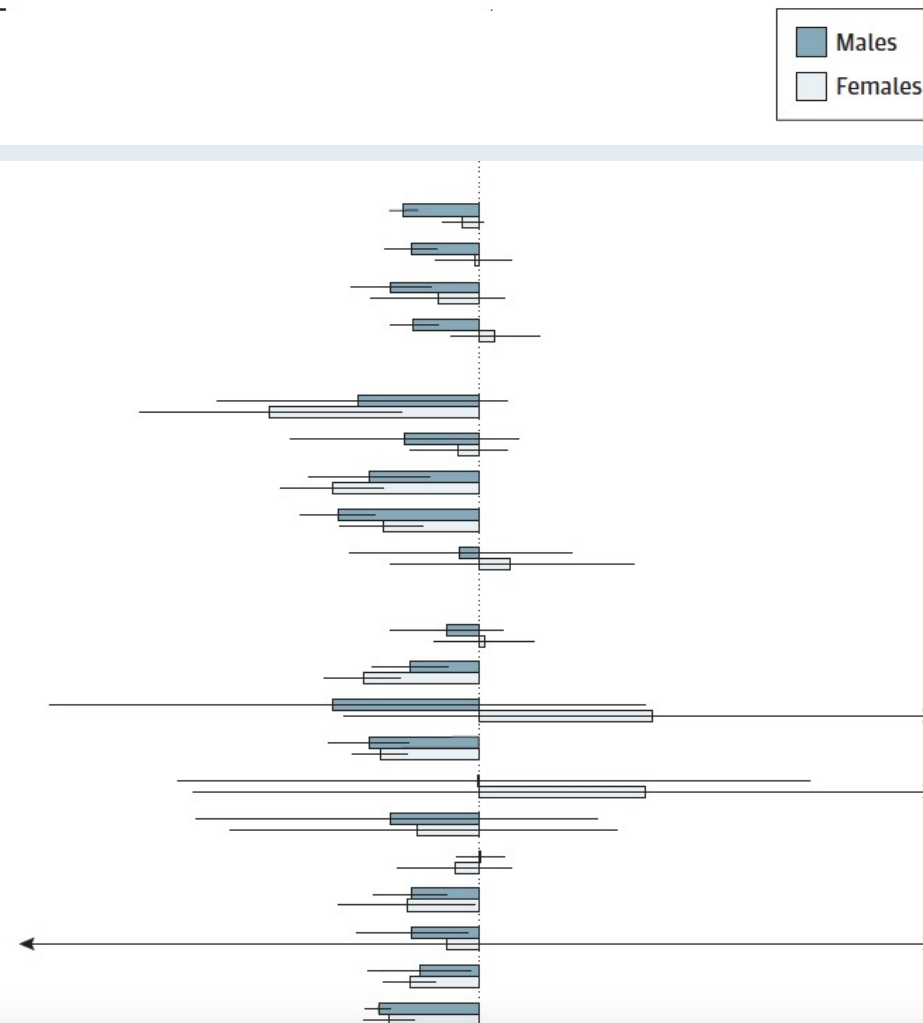
Canada: -2.64 (95% CI, -3.14 to -2.14),  $P < .001$ ; -0.57 (95% CI, -1.24 to 0.12),  $P = .09$   
 US: -2.39 (95% CI, -3.28 to -1.49),  $P < .001$ ; -0.21 (95% CI, -1.53 to 1.13),  $P = .73$   
 US: Black: -3.09 (95% CI, -4.47 to -1.69),  $P = .001$ ; -1.47 (95% CI, -3.76 to 0.88),  $P = .19$   
 US: White: -2.29 (95% CI, -3.11 to -1.46),  $P < .001$ ; 0.56 (95% CI, -0.97 to 2.12),  $P = .42$

## South America

Brazil: -4.21 (95% CI, -9.14 to 1.00),  $P = .01$ ; -7.37 (95% CI, -11.85 to -2.66),  $P = .007$   
 Chile: -2.65 (95% CI, -6.55 to 1.41),  $P = .17$ ; -0.73 (95% CI, -2.42 to 1.00),  $P = .36$   
 Colombia: -3.83 (95% CI, -5.90 to -1.70),  $P = .003$ ; -5.14 (95% CI, -6.91 to -3.33),  $P < .001$   
 Costa Rica: -4.95 (95% CI, -6.23 to -3.65),  $P < .001$ ; -3.40 (95% CI, -4.86 to -1.92),  $P = .001$   
 Ecuador: -0.69 (95% CI, -4.52 to 3.30),  $P = .70$ ; 1.07 (95% CI, -3.10 to 5.42),  $P = .58$

## Northern Europe

Denmark: -1.12 (95% CI, -3.06 to 0.86),  $P = .23$ ; 0.17 (95% CI, -1.55 to 1.93),  $P = .82$   
 Estonia: -2.41 (95% CI, -3.73 to -1.06),  $P = .003$ ; -4.06 (95% CI, -5.37 to -2.73),  $P < .001$   
 Faroe Islands: -5.14 (95% CI, -14.94 to 5.78),  $P = .30$ ; 6.02 (95% CI, -4.69 to 17.92),  $P = .24$   
 Finland: -3.84 (95% CI, -5.22 to -2.44),  $P < .001$ ; -3.46 (95% CI, -4.42 to -2.49),  $P < .001$   
 Greenland: -0.07 (95% CI, -10.47 to 11.54),  $P = .99$ ; 5.80 (95% CI, -9.95 to 24.30),  $P = .44$   
 Iceland: -3.12 (95% CI, -9.85 to 4.11),  $P = .34$ ; -2.19 (95% CI, -8.70 to 4.79),  $P = .48$   
 Ireland: 0.07 (95% CI, -0.75 to 0.90),  $P = .84$ ; -0.86 (95% CI, -2.81 to 1.13),  $P = .35$   
 Lithuania: -2.39 (95% CI, -3.68 to -1.10),  $P = .003$ ; -2.52 (95% CI, -4.89 to -0.10),  $P = .04$   
 Norway: -2.36 (95% CI, -4.28 to -0.40),  $P = .02$ ; -1.15 (95% CI, -16.71 to 17.30),  $P = .88$   
 Sweden: -2.07 (95% CI, -3.84 to -0.27),  $P = .03$ ; -2.43 (95% CI, -3.35 to -1.51),  $P < .001$   
 UK: -3.51 (95% CI, -3.96 to -3.06),  $P < .001$ ; -3.15 (95% CI, -4.00 to -2.29),  $P < .001$



# Average Annual Percent Change (AAPC) of the Incidence of Gastric Cancer in Individuals Younger than 40 Years

AAPC among males and females by global region and country

## North America

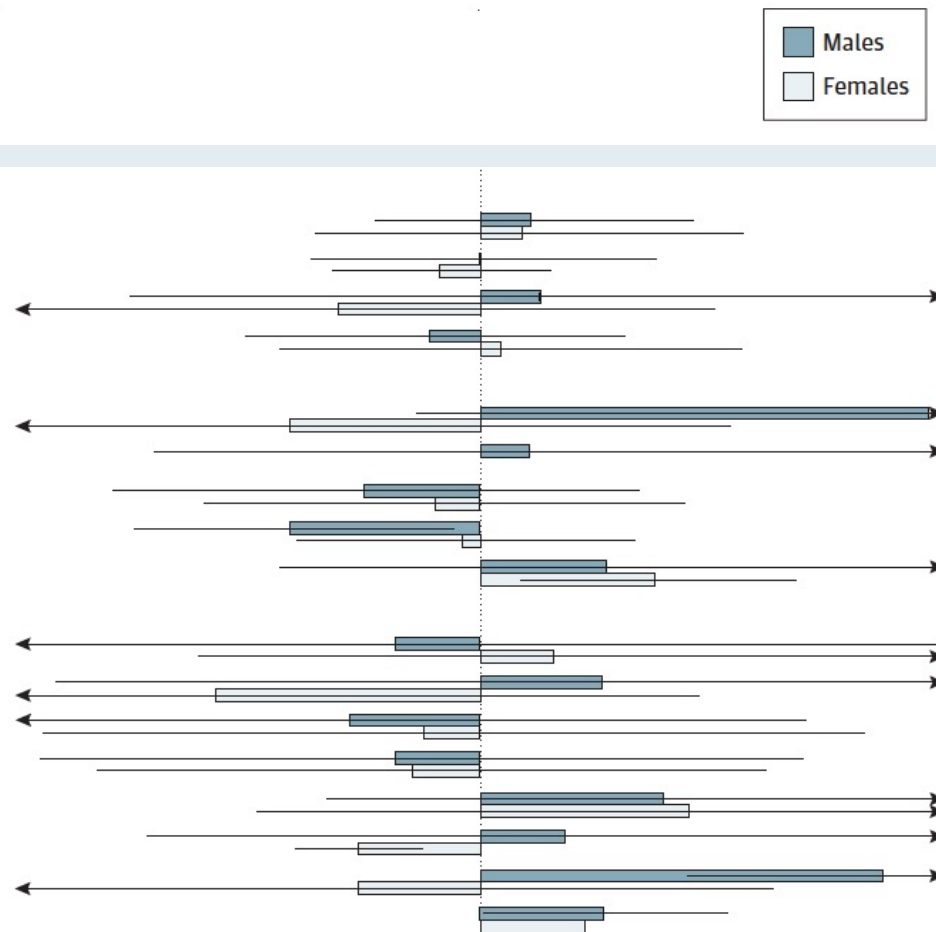
Canada: 1.73 (95% CI, -3.61 to 7.36),  $P = .48$ ; 1.41 (95% CI, -5.70 to 9.06),  $P = .67$   
 US: -0.04 (95% CI, -5.82 to 6.09),  $P = .99$ ; -1.39 (95% CI, -5.10 to 2.47),  $P = .43$   
 US: Black: 2.06 (95% CI, -12.08 to 18.47),  $P = .76$ ; -4.92 (95% CI, -16.37 to 8.09),  $P = .39$   
 US: White: -1.76 (95% CI, -8.09 to 5.01),  $P = .56$ ; 0.74 (95% CI, -6.90 to 9.01),  $P = .84$

## South America

Brazil: 15.50 (95% CI, -2.19 to 36.39),  $P = .08$ ; -6.58 (95% CI, -19.66 to 8.64),  $P = .33$   
 Chile: 1.71 (95% CI, -11.22 to 16.53),  $P = .78$ ; NA  
 Colombia: -4.02 (95% CI, -12.67 to 5.49),  $P = .35$ ; -1.59 (95% CI, -9.52 to -7.04),  $P = .67$   
 Costa Rica: -6.57 (95% CI, -11.91 to -0.91),  $P = .03$ ; -0.65 (-6.30 to 5.35),  $P = .81$   
 Ecuador: 4.36 (95% CI, -6.87 to 16.95),  $P = .41$ ; 6.05 (95% CI, 1.40 to 10.92),  $P = .02$

## Northern Europe

Denmark: -2.93 (95% CI, -18.58 to 15.74),  $P = .71$ ; 2.56 (95% CI, -9.74 to 16.54),  $P = .66$   
 Estonia: 4.20 (95% CI, -14.65 to 27.21),  $P = .65$ ; -9.14 (95% CI, -23.26 to 7.58),  $P = .23$   
 Finland: -4.50 (95% CI, -18.03 to 11.25),  $P = .51$ ; -1.95 (95% CI, -15.07 to 13.21),  $P = .76$   
 Ireland: -2.91 (95% CI, -15.16 to 11.12),  $P = .63$ ; -2.35 (95% CI, -13.20 to 9.85),  $P = .65$   
 Lithuania: 6.35 (95% CI, -5.29 to 19.42),  $P = .26$ ; 7.19 (95% CI, -7.69 to 24.46),  $P = .32$   
 Norway: 2.94 (95% CI, -11.51 to 19.76),  $P = .67$ ; -4.21 (95% CI, -6.38 to -2.00),  $P = .002$   
 Sweden: 13.92 (95% CI, 7.16 to 21.11),  $P = .001$ ; -4.25 (95% CI, -16.73 to 10.09),  $P = .49$   
 UK: 4.27 (95% CI, 0.15 to 8.55),  $P = .04$ ; 3.60 (95% CI, 3.60 to 3.60),  $P < .001$



# Key Questions in Upper Gastrointestinal Cancers

**What are some of the biopsychosocial factors that affect younger patients with cancer, including the impact on minor children?**

# Agenda:

## Management of Gastroesophageal Cancers

**Introduction – Overview**

**Module 1 – Management of Localized Disease**

**Module 2 – Management of HER2-Negative Metastatic Disease**

**Module 3 – Management of HER2-Positive Metastatic Disease**



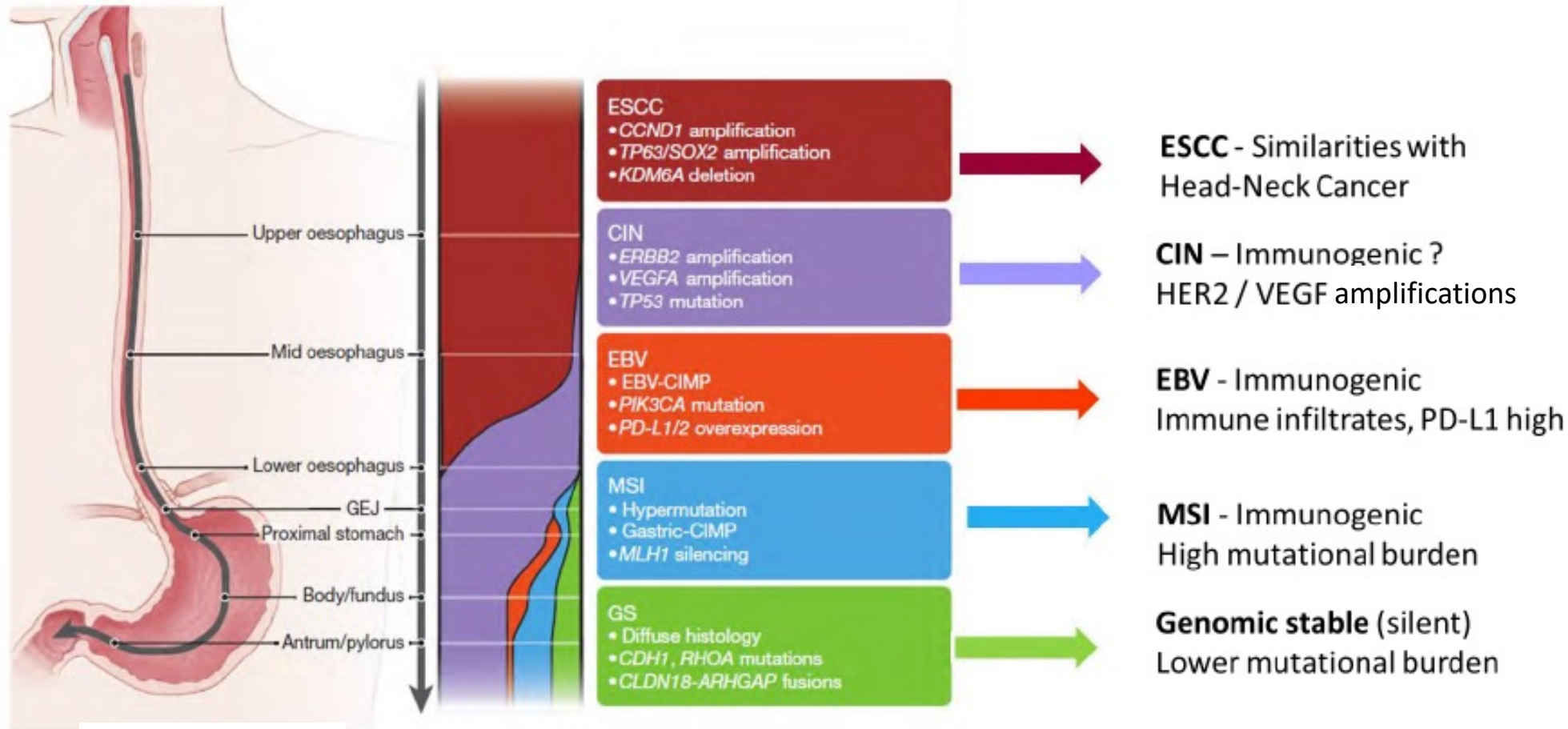
# Key Questions in Upper Gastrointestinal Cancers

**Where do upper GI cancers occur anatomically?**

**How are these cancers usually detected?**

**How does the tumor stage and histology  
affect treatment selection?**

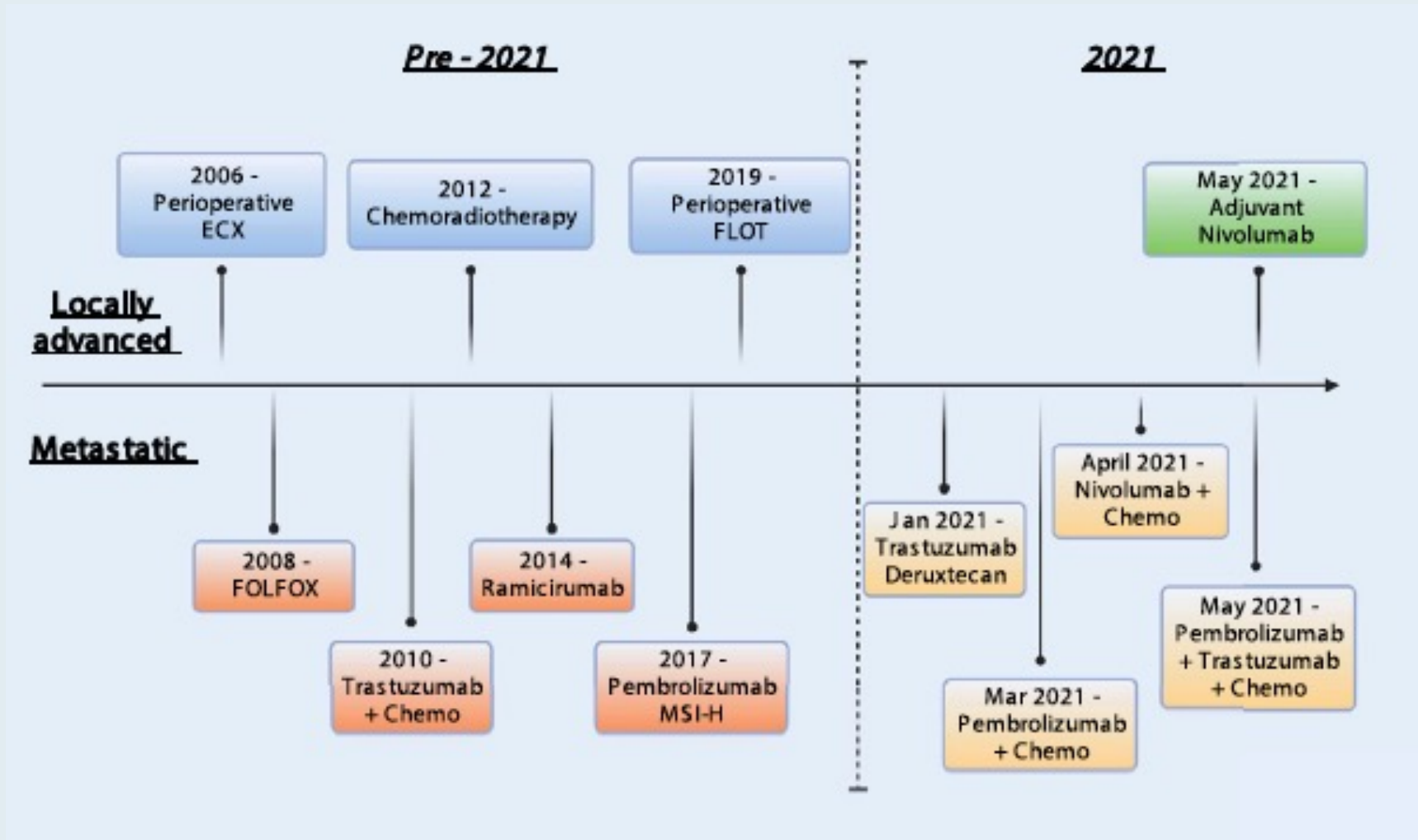
# Tumor Biology Is Key



# Key Questions in Upper Gastrointestinal Cancers

**What are Phase I, II and III clinical trials?**

# Timeline of US FDA Approvals and Interventions for Esophagogastric Cancer



# Key Questions in Upper Gastrointestinal Cancers

**What are the trial design and key findings of the CheckMate 577 study evaluating adjuvant nivolumab for esophageal or gastroesophageal junction cancer?**

**In what clinical situations is this treatment used?**

# Adjuvant nivolumab in resected esophageal or gastroesophageal junction cancer following neoadjuvant chemoradiotherapy: expanded efficacy and safety analyses from CheckMate 577

Ronan J. Kelly,<sup>1</sup> Jaffer A. Ajani,<sup>2</sup> Jaroslaw Kuzdzal,<sup>3</sup> Thomas Zander,<sup>4</sup> Eric Van Cutsem,<sup>5</sup> Guillaume Piessen,<sup>6</sup> Guillermo Mendez,<sup>7</sup> Josephine Feliciano,<sup>8</sup> Satoru Motoyama,<sup>9</sup> Astrid Lièvre,<sup>10</sup> Hope Uronis,<sup>11</sup> Elena Elimova,<sup>12</sup> Cecile Grootsholten,<sup>13</sup> Karen Geboes,<sup>14</sup> Jenny Zhang,<sup>15</sup> Samira Soleymani,<sup>15</sup> Ming Lei,<sup>15</sup> Prianka Singh,<sup>15</sup> James M. Cleary,<sup>16</sup> Markus Moehler<sup>17</sup>

<sup>1</sup>The Charles A. Sammons Cancer Center at Baylor University Medical Center, Dallas, TX; <sup>2</sup>The University of Texas MD Anderson Cancer Center, Houston, TX; <sup>3</sup>Jagiellonian University, John Paul II Hospital, Cracow, Poland; <sup>4</sup>University Hospital of Cologne, Cologne, Germany; <sup>5</sup>University Hospitals Gasthuisberg, Leuven and KU Leuven, Leuven, Belgium; <sup>6</sup>University of Lille, Claude Huriez University Hospital, Lille, France; <sup>7</sup>Fundacion Favaloro, Buenos Aires, Argentina; <sup>8</sup>Johns Hopkins Sidney Kimmel Comprehensive Cancer Center, Baltimore, MD; <sup>9</sup>Akita University Hospital, Akita, Japan; <sup>10</sup>CHU Pontchaillou, Rennes 1 University, Rennes, France; <sup>11</sup>Duke Cancer Institute, Durham, NC; <sup>12</sup>Princess Margaret Cancer Centre, Toronto, ON, Canada; <sup>13</sup>Netherlands Cancer Institute-Antoni van Leeuwenhoek Hospital, Amsterdam, Netherlands; <sup>14</sup>UZ Gent, Gent, Belgium; <sup>15</sup>Bristol Myers Squibb, Princeton, NJ; <sup>16</sup>Dana Farber Cancer Institute, Boston, MA; <sup>17</sup>Johannes-Gutenberg University Clinic, Mainz, Germany



# CheckMate 577: Phase III Study Design

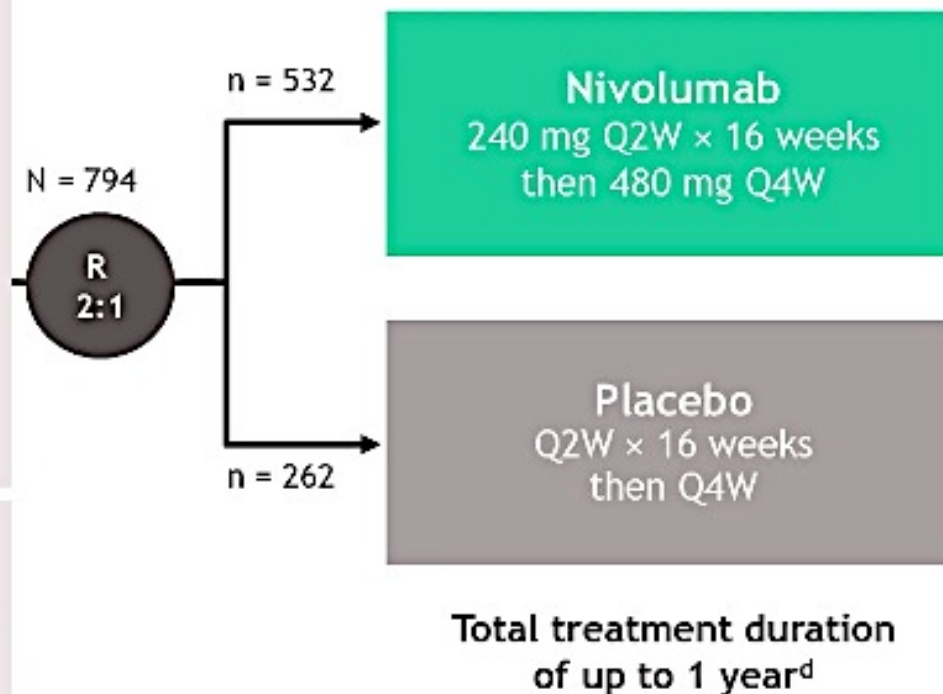
- CheckMate 577 is a global, phase 3, randomized, double-blind, placebo-controlled trial<sup>a</sup>

## Key eligibility criteria

- Stage II/III EC/GEJC
- Adenocarcinoma or squamous cell carcinoma
- Neoadjuvant CRT + surgical resection (R0,<sup>b</sup> performed within 4-16 weeks prior to randomization)
- Residual pathologic disease
  - $\geq$  ypT1 or  $\geq$  ypN1
- ECOG PS 0-1

## Stratification factors

- Histology (squamous versus adenocarcinoma)
- Pathologic lymph node status ( $\geq$  ypN1 versus ypN0)
- Tumor-cell PD-L1 expression ( $\geq$  1% versus  $<$  1%)<sup>c</sup>



## Primary endpoint:

- DFS<sup>e</sup>

## Secondary endpoints:

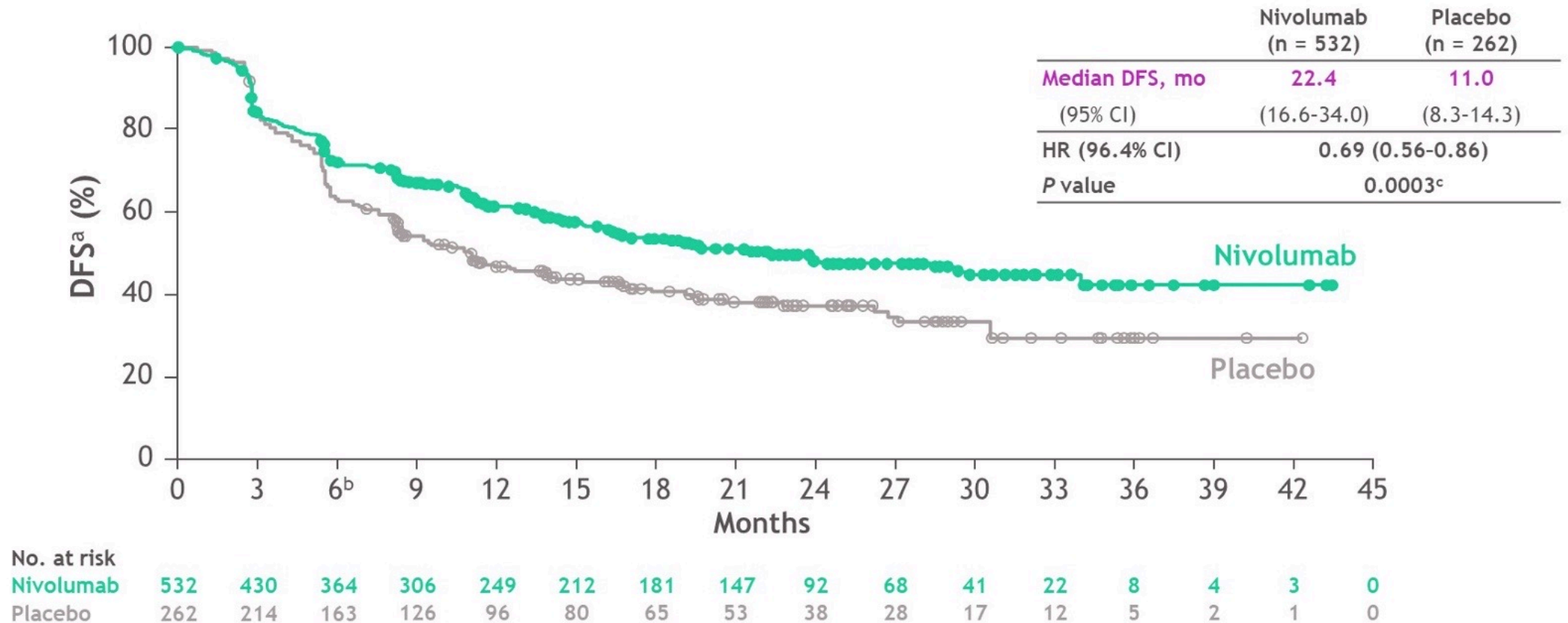
- OS<sup>f</sup>
- OS rate at 1, 2, and 3 years

## Exploratory endpoints included:

- Safety
- DMFS<sup>g</sup>
- PFS2<sup>h</sup>
- QoL

- Median follow-up was 24.4 months (range, 6.2-44.9)<sup>i</sup>
- Geographical regions: Europe (38%), United States and Canada (32%), Asia (13%), rest of the world (16%)

# 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



# Key Questions in Upper Gastrointestinal Cancers

**In which situations is neoadjuvant systemic therapy used?**

**What typically occurs in terms of toxicity and tumor response?**

**What are the CROSS and FLOT regimens, and when are they generally used?**

# Key Questions in Upper Gastrointestinal Cancers

**What do you say to patients with upper GI cancers who are about to begin a neoadjuvant treatment regimen in terms of what to expect before and after surgery?**

# **Surgical and Pathological Outcome, and Pathological Regression, in Patients Receiving Perioperative Atezolizumab in Combination with FLOT Chemotherapy versus FLOT Alone for Resectable Esophagogastric Adenocarcinoma: Interim Results from DANTE, a Randomized, Multicenter, Phase IIb Trial of the FLOT-AIO German Gastric Cancer Group and Swiss SAKK**

Al-Batran SE et al.

ASCO 2022;Abstract 4003

**Primary Track: Gastrointestinal Cancer — Gastroesophageal, Pancreatic, and Hepatobiliary**  
**Oral Session: June 5, 2022, 9:12 AM**

# Key Questions in Upper Gastrointestinal Cancers

**What clinical trials are being conducted in localized gastroesophageal cancers?**

**What can we expect from the future?**

# Agenda:

## Management of Gastroesophageal Cancers

**Introduction – Overview**

**Module 1 – Management of Localized Disease**

**Module 2 – Management of HER2-Negative Metastatic Disease**

**Module 3 – Management of HER2-Positive Metastatic Disease**

# Key Questions in Upper Gastrointestinal Cancers

**What is the usual first-line treatment for metastatic HER2-negative metastatic gastroesophageal cancer?**

**How does first-line treatment vary based on PD-L1 level?**

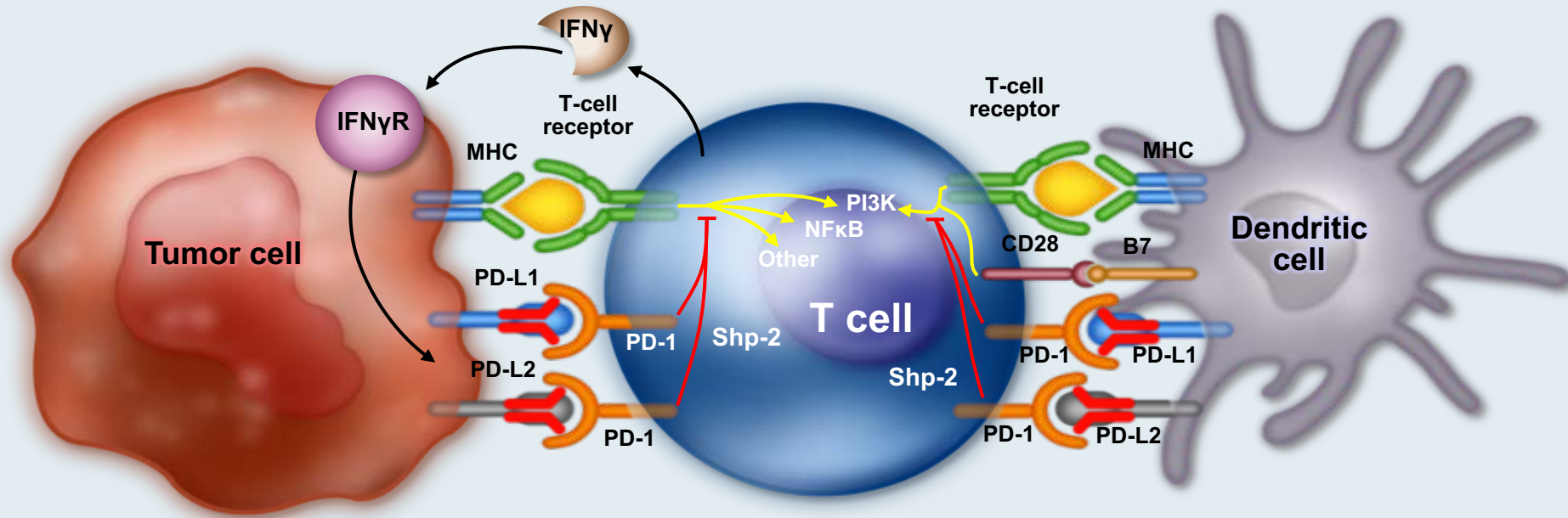
# Key Questions in Upper Gastrointestinal Cancers


**In general, what do you say to patients who are about to receive immunotherapy, and how do you explain the common toxicities?**

**What specific autoimmune issues arise in patients receiving checkpoint inhibitors – including endocrine abnormalities and dermatologic toxicities?**

# Anti-PD-1/PD-L1 Antibodies: Mechanism of Action

- PD-1 expression on tumor-infiltrating lymphocytes is associated with decreased cytokine production and effector function



 Nivolumab/pembrolizumab: PD-1 receptor blocking Ab  
Atezolizumab: PD-L1 receptor blocking Ab



# Nivolumab plus chemotherapy or ipilimumab in gastro-oesophageal cancer

<https://doi.org/10.1038/s41586-022-04508-4>

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Open access

Kohei Shitara<sup>1</sup>, Jaffer A. Ajani<sup>2</sup>, Markus Moehler<sup>3</sup>, Marcelo Garrido<sup>4</sup>, Carlos Gallardo<sup>5</sup>, Lin Shen<sup>6</sup>, Kensei Yamaguchi<sup>7</sup>, Lucjan Wyrwicz<sup>8</sup>, Tomasz Skoczylas<sup>9</sup>, Arinilda Campos Bragagnoli<sup>10</sup>, Tianshu Liu<sup>11</sup>, Mustapha Tehfe<sup>12</sup>, Elena Elimova<sup>13</sup>, Ricardo Bruges<sup>14</sup>, Thomas Zander<sup>15</sup>, Sergio de Azevedo<sup>16</sup>, Ruben Kowalyszyn<sup>17</sup>, Roberto Pazo-Cid<sup>18</sup>, Michael Schenker<sup>19</sup>, James M. Cleary<sup>20</sup>, Patricio Yanez<sup>21</sup>, Kynan Feeney<sup>22</sup>, Michalis V. Karamouzis<sup>23</sup>, Valerie Poulart<sup>24</sup>, Ming Lei<sup>24</sup>, Hong Xiao<sup>24</sup>, Kaoru Kondo<sup>24</sup>, Mingshun Li<sup>24</sup> & Yelena Y. Janjigian<sup>25</sup>✉

# CheckMate 649: Study Design

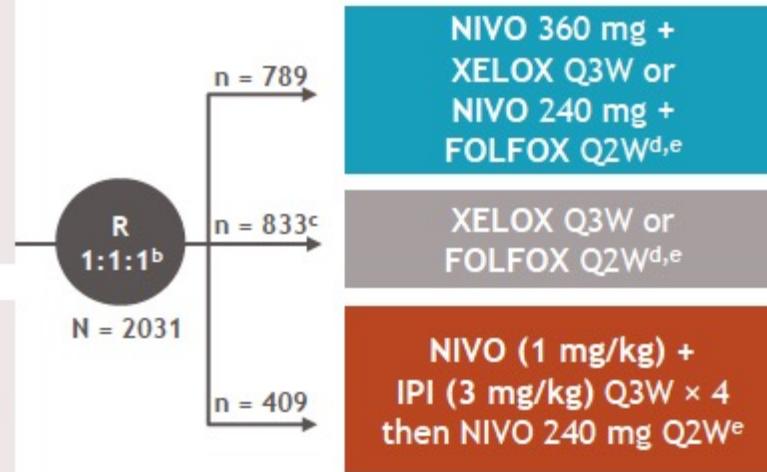
- CheckMate 649 is a randomized, open-label, global phase 3 study (NCT02872116)<sup>1</sup>

## Key eligibility criteria

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

## Stratification factors

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



## Dual primary endpoints

- NIVO + chemo vs chemo*
- OS and PFS per BICR (PD-L1 CPS  $\geq 5$ )

## Hierarchically tested secondary efficacy endpoints

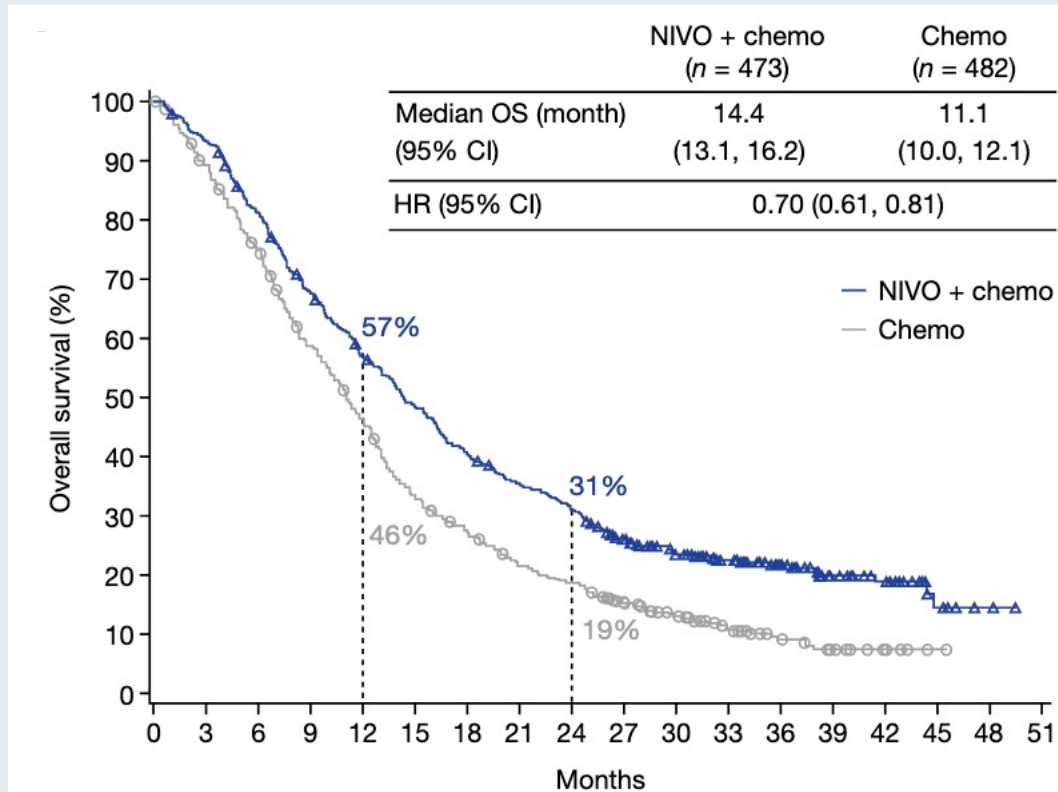
- |  |  |
|--|--|
| <i>NIVO + chemo vs chemo</i>               | <i>NIVO + IPI vs chemo</i>                 |
| • OS (PD-L1 CPS $\geq 1$ , all randomized) | • OS (PD-L1 CPS $\geq 5$ , all randomized) |

- At data cutoff (May 27, 2021), the minimum follow-up<sup>f</sup> was 24.0 months in the NIVO + chemo arm and 35.7 months in the NIVO + IPI arm

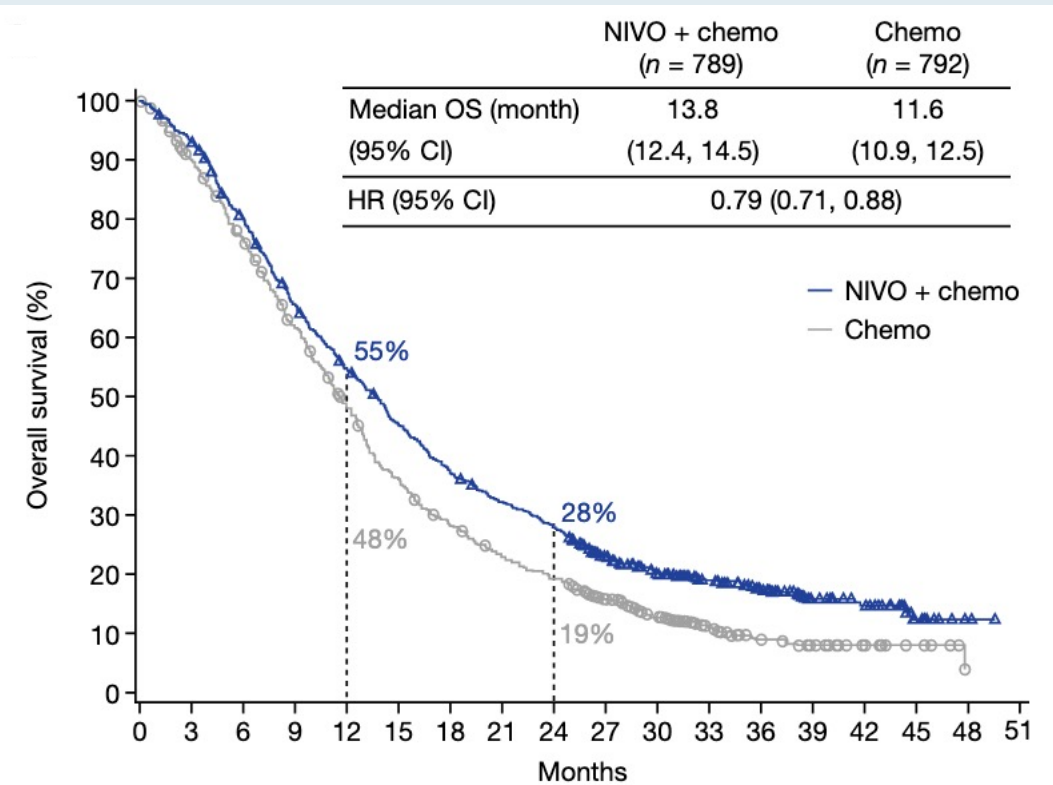
<sup>a</sup>< 1% includes indeterminate tumor cell PD-L1 expression; <sup>b</sup>After NIVO + chemo arm was added and before new patient enrollment in the NIVO + IPI arm was stopped early (5 June 2018) based on DMC recommendation; patients already enrolled in the NIVO + IPI arm were allowed to remain on study; <sup>c</sup>Includes patients concurrently randomized to chemo vs NIVO + IPI (October 2016-June 2018), and to NIVO + chemo (Apr 2017-Apr 2019); <sup>d</sup>XELOX: oxaliplatin 130 mg/m<sup>2</sup> IV (day 1) and capecitabine 1000 mg/m<sup>2</sup> orally twice daily (days 1-14); FOLFOX: oxaliplatin 85 mg/m<sup>2</sup>, leucovorin 400 mg/m<sup>2</sup>, and FU 400 mg/m<sup>2</sup> IV (day 1) and FU 1200 mg/m<sup>2</sup> IV daily (days 1-2); <sup>e</sup>Until documented disease progression (unless consented to treatment beyond progression for NIVO + chemo or NIVO + IPI), discontinuation due to toxicity, withdrawal of consent, or study end. NIVO is given for a maximum of 2 years; <sup>f</sup>Time from concurrent randomization of the last patient to data cutoff. 1. Janjigian YY, et al. *Lancet* 2021;398:27-40.

# CheckMate 649: Overall Survival with Nivolumab/Chemotherapy versus Chemotherapy

PD-L1 CPS  $\geq 5$



All randomly assigned patients



CPS = combined positive score

ORIGINAL ARTICLE

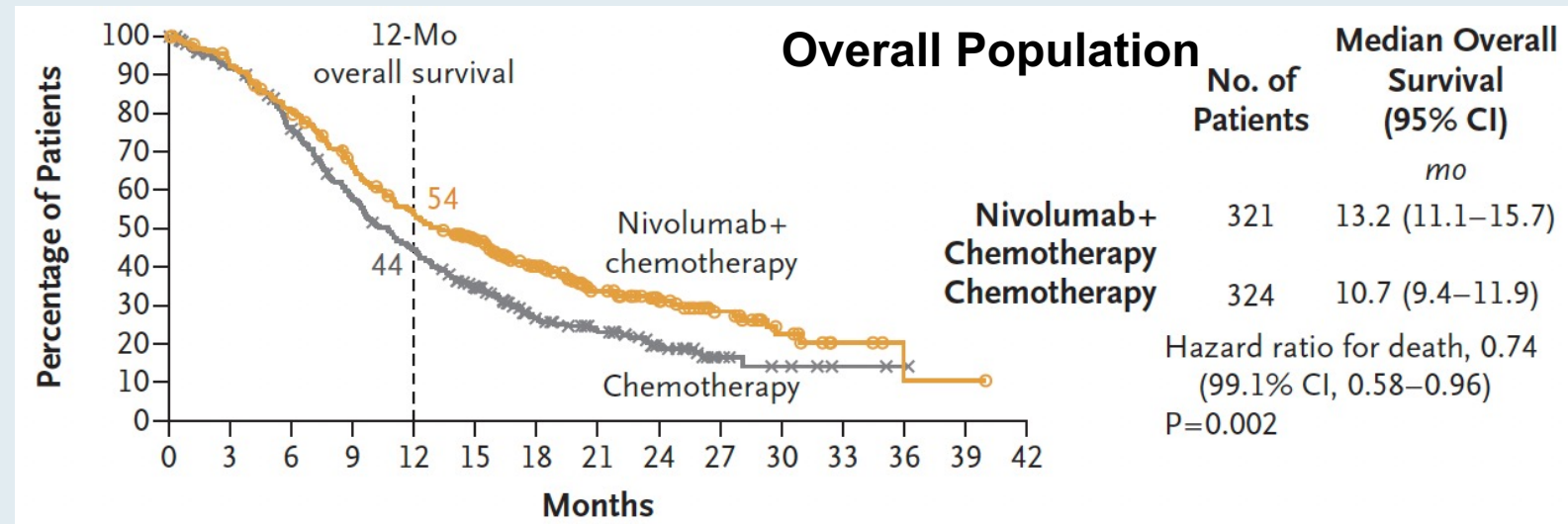
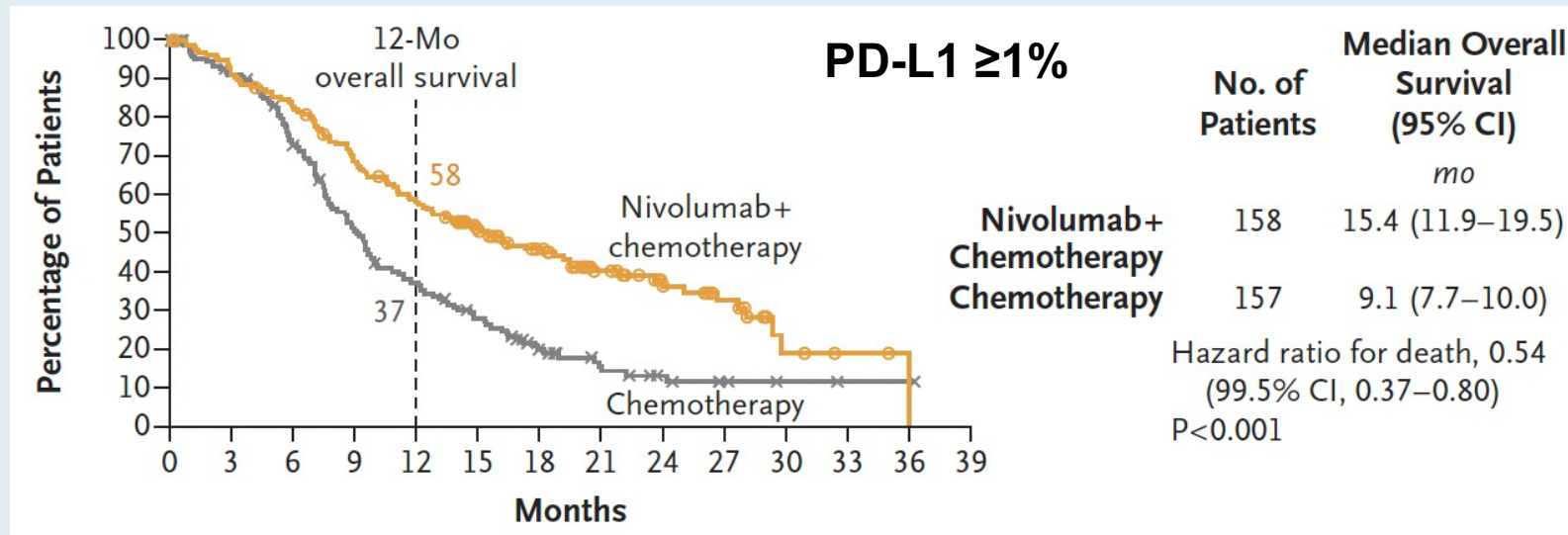
# Nivolumab Combination Therapy in Advanced Esophageal Squamous-Cell Carcinoma

Y. Doki, J.A. Ajani, K. Kato, J. Xu, L. Wyrwicz, S. Motoyama, T. Ogata, H. Kawakami, C.-H. Hsu, A. Adenis, F. El Hajbi, M. Di Bartolomeo, M.I. Braghiroli, E. Holtved, S.A. Ostoich, H.R. Kim, M. Ueno, W. Mansoor, W.-C. Yang, T. Liu, J. Bridgewater, T. Makino, I. Xynos, X. Liu, M. Lei, K. Kondo, A. Patel, J. Gricar, I. Chau, and Y. Kitagawa, for the CheckMate 648 Trial Investigators\*

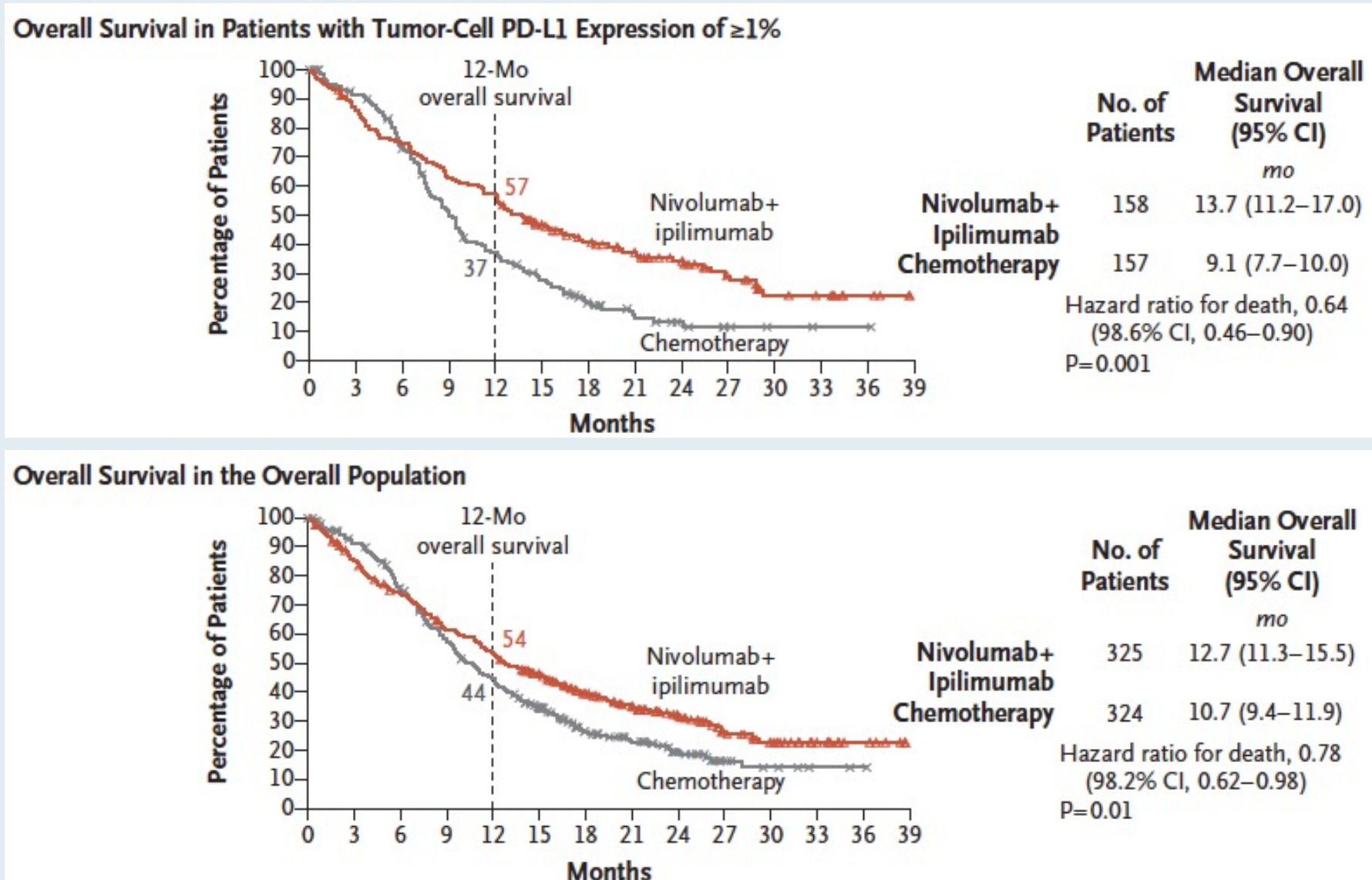
***N Engl J Med 2022;386(5):449-62.***



# CheckMate 648: Overall Survival for PD-L1 $\geq 1\%$ and in the Overall Population – Nivolumab + Chemotherapy



# CheckMate 648: Overall Survival for PD-L1 $\geq 1\%$ and in the Overall Population – Nivolumab + Ipilimumab



Research

JAMA Oncology | **Original Investigation**

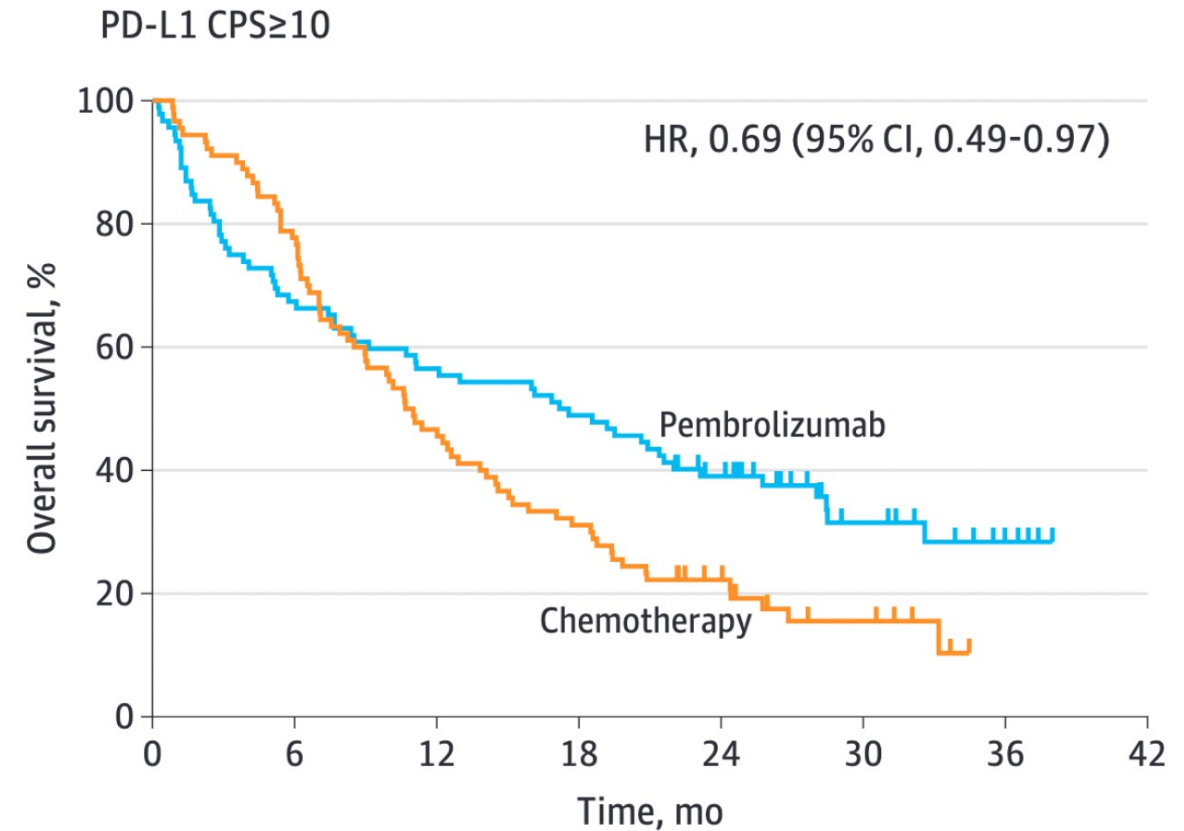
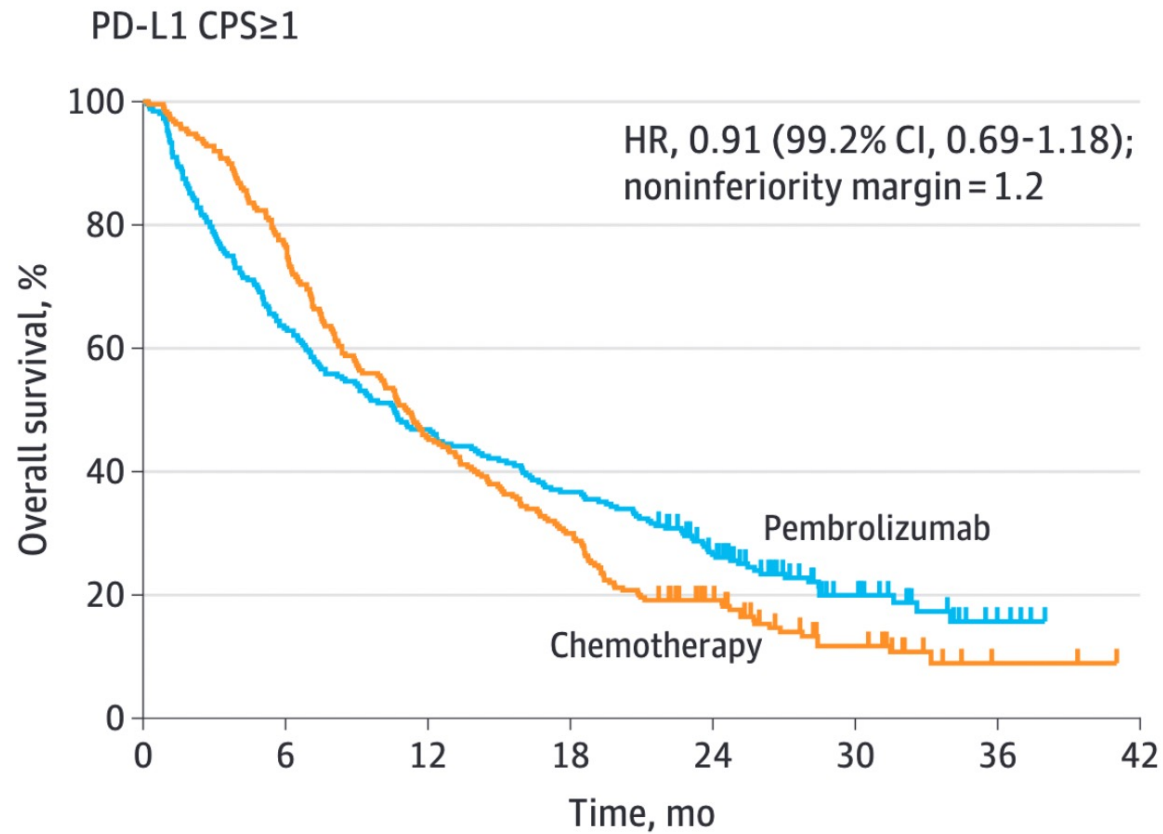
# Efficacy and Safety of Pembrolizumab or Pembrolizumab Plus Chemotherapy vs Chemotherapy Alone for Patients With First-line, Advanced Gastric Cancer

## The KEYNOTE-062 Phase 3 Randomized Clinical Trial

Kohei Shitara, MD; Eric Van Cutsem, MD; Yung-Jue Bang, MD; Charles Fuchs, MD; Lucjan Wyrwicz, MD; Keun-Wook Lee, MD; Iveta Kudaba, MD; Marcelo Garrido, MD; Hyun Cheol Chung, MD; Jeeyun Lee, PhD; Hugo Raul Castro, MD; Wasat Mansoor, MD; Maria Ignez Braghiroli, MD; Nina Karaseva, MD; Christian Caglevic, MD; Luis Villanueva, MD; Eray Goekkurt, MD; Hironaga Satake, MD; Peter Enzinger, MD; Maria Alsina, MD; Al Benson, MD; Joseph Chao, MD; Andrew H. Ko, MD; Zev A. Wainberg, MD; Uma Kher, MS; Sukrut Shah, PhD; S. Peter Kang, MD; Josep Tabernero, MD, PhD, MSc

2020;6(10):1571-80.

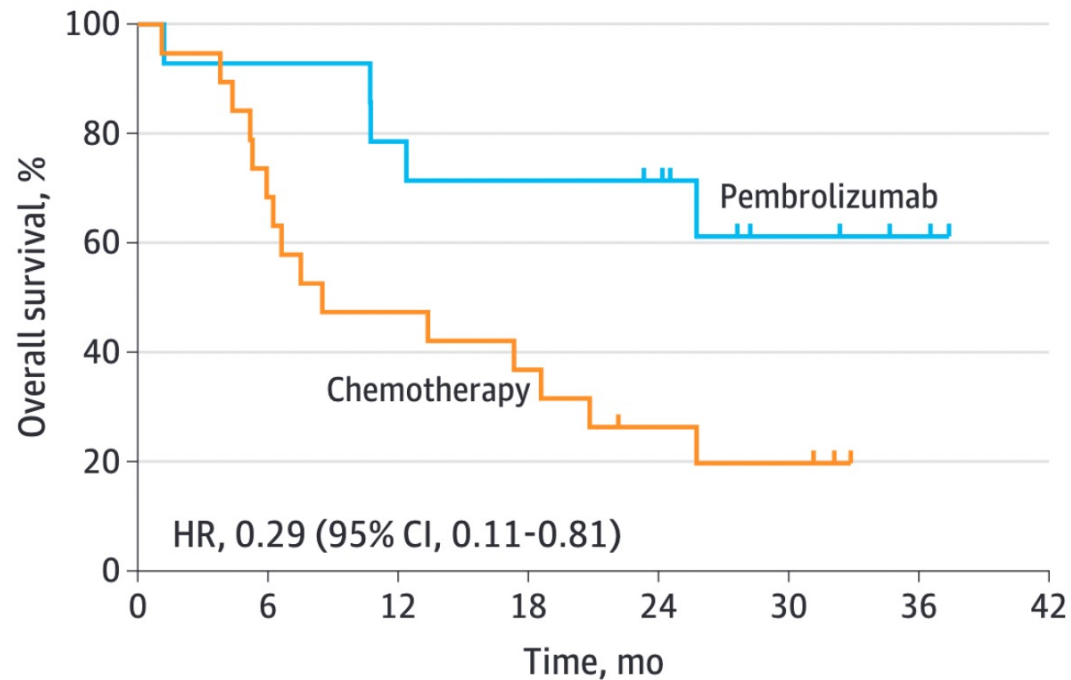
# KEYNOTE-062: Pembrolizumab Monotherapy



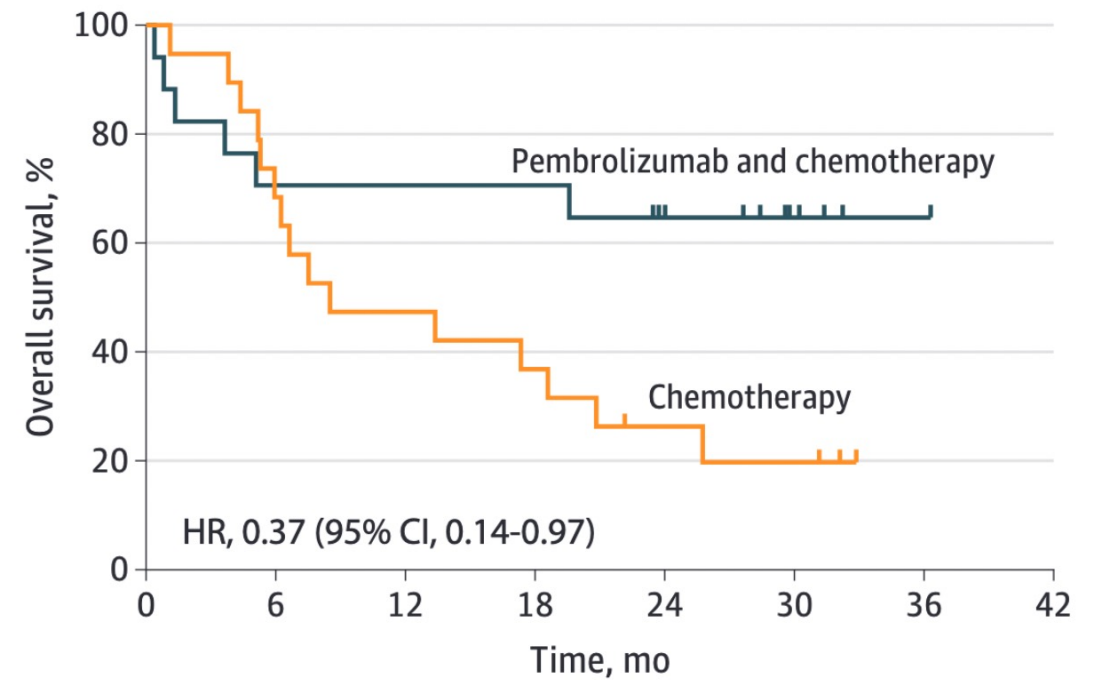


## KEYNOTE 062: Overall Survival for MSI-H, CPS $\geq 1$

Pembrolizumab



Pembrolizumab and chemotherapy



# Key Questions in Upper Gastrointestinal Cancers

**What is the long-term prognosis for patients with metastatic upper GI cancers?**

**Are some patients cured with systemic therapy alone?**

# Key Questions in Upper Gastrointestinal Cancers

**In what situations is local therapy used to treat oligometastases in upper GI cancers?**

# Key Questions in Upper Gastrointestinal Cancers

**What is the usual second-line treatment for patients with HER2-negative metastatic gastroesophageal cancer?**

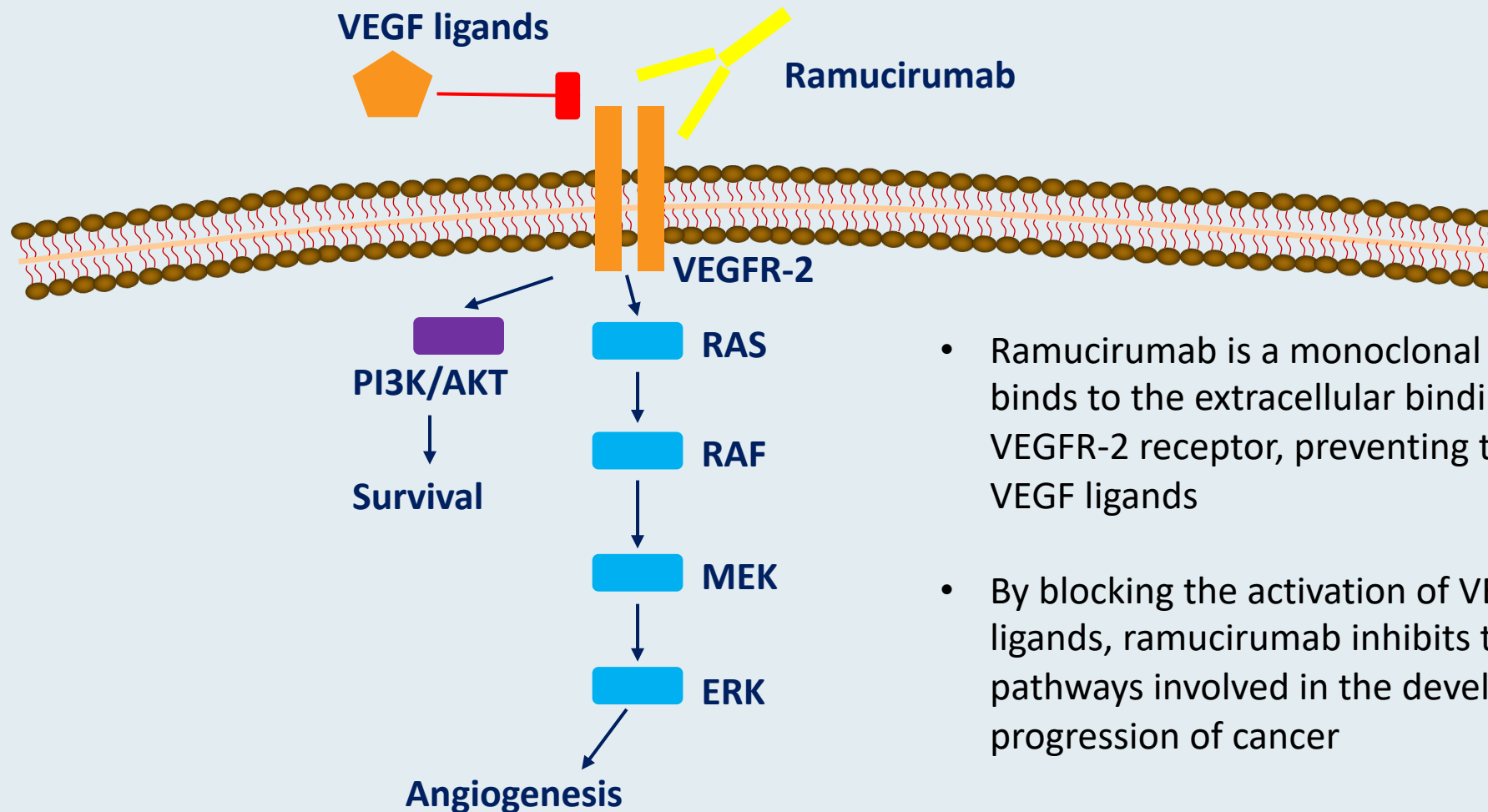
**What are the risks and potential benefits of chemotherapy/ramucirumab?**

**Which forms of chemotherapy can be combined with ramucirumab?**

# Key Questions in Upper Gastrointestinal Cancers

**What do you say to patients with metastatic upper GI cancers who are about to begin treatment with chemotherapy/ramucirumab in terms of what to expect?**

# Mechanism of Action of Ramucirumab



- Ramucirumab is a monoclonal antibody that binds to the extracellular binding domain of the VEGFR-2 receptor, preventing the binding of VEGF ligands
- By blocking the activation of VEGFR-2 by VEGF ligands, ramucirumab inhibits the angiogenesis pathways involved in the development and progression of cancer

***Lancet 2014;383(9911):31-9.***

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**Ramucirumab monotherapy for previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (REGARD): an international, randomised, multicentre, placebo-controlled, phase 3 trial**



*Charles S Fuchs, Jiri Tomasek, Cho Jae Yong, Filip Dumitru, Rodolfo Passalacqua, Chanchal Goswami, Howard Safran, Lucas Vieira dos Santos, Giuseppe Aprile, David R Ferry, Bohuslav Melichar, Mustapha Tehfe, Eldar Topuzov, John Raymond Zalcberg, Ian Chau, William Campbell, Choondal Sivanandan, Joanna Pikiel, Minoru Koshiji, Yanzhi Hsu, Astra M Liepa, Ling Gao, Jonathan D Schwartz, Josep Tabernero, for the REGARD Trial Investigators\**

***Lancet Oncol 2014;15(11):1224-35.***

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**Ramucirumab plus paclitaxel versus placebo plus paclitaxel in patients with previously treated advanced gastric or gastro-oesophageal junction adenocarcinoma (RAINBOW): a double-blind, randomised phase 3 trial**

*Hansjochen Wilke, Kei Muro, Eric Van Cutsem, Sang-Cheul Oh, György Bodoky, Yasuhiro Shimada, Shuichi Hironaka, Naotoshi Sugimoto, Oleg Lipatov, Tae-You Kim, David Cunningham, Philippe Rougier, Yoshito Komatsu, Jaffer Ajani, Michael Emig, Roberto Carlesi, David Ferry†, Kumari Chandrawansa, Jonathan D Schwartz, Atsushi Ohtsu, for the RAINBOW Study Group\**



# Pivotal Phase III Studies of Ramucirumab for Advanced Gastric or GEJ Adenocarcinoma

Study	N	Setting	Treatment	Median OS	Hazard ratio ( <i>p</i> -value)
REGARD	355	PD after first-line therapy	Ramucirumab Placebo	5.2 mo 3.8 mo	HR: 0.776 ( <i>p</i> = 0.047)
RAINBOW	665	PD after first-line therapy	Ramucirumab/paclitaxel Placebo/paclitaxel	9.6 mo 7.4 mo	HR: 0.807 ( <i>p</i> = 0.017)

PD = progressive disease



ELSEVIER

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

ScienceDirect

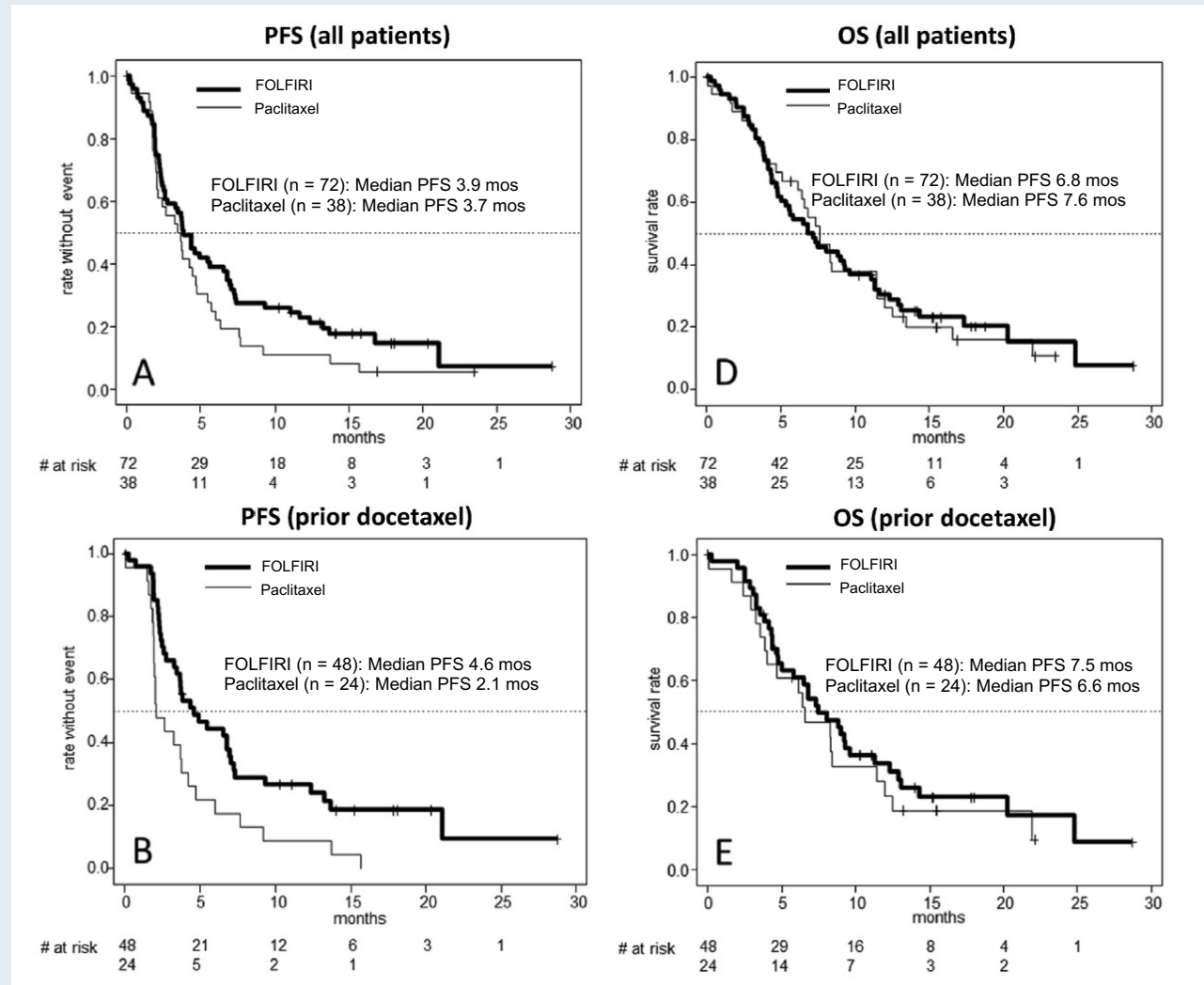
journal homepage: [www.ejancer.com](http://www.ejancer.com)

## Original Research

# FOLFIRI plus ramucirumab versus paclitaxel plus ramucirumab as second-line therapy for patients with advanced or metastatic gastroesophageal adenocarcinoma with or without prior docetaxel — results from the phase II RAMIRIS Study of the German Gastric Cancer Study Group at AIO

Sylvie Lorenzen <sup>a,\*</sup>, Peter Thuss-Patience <sup>b</sup>, Claudia Pauligk <sup>c</sup>,  
Eray Gökkurt <sup>d</sup>, Thomas Ettrich <sup>e</sup>, Florian Lordick <sup>f</sup>, Michael Stahl <sup>g</sup>,  
Peter Reichardt <sup>h</sup>, Martin Sökler <sup>i</sup>, Daniel Pink <sup>j,k</sup>, Stefan Probst <sup>l</sup>,  
Axel Hinke <sup>m</sup>, Thorsten O. Goetze <sup>c,n,l</sup>, Salah E. Al-Batran <sup>c,n,l</sup>

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



# Key Questions in Upper Gastrointestinal Cancers

**What are some of the obstacles you encounter in having patients participate in clinical trials?**

**How do you dispel common misperceptions of clinical trial participation?**

**What are some of the psychosocial issues that arise in this situation?**

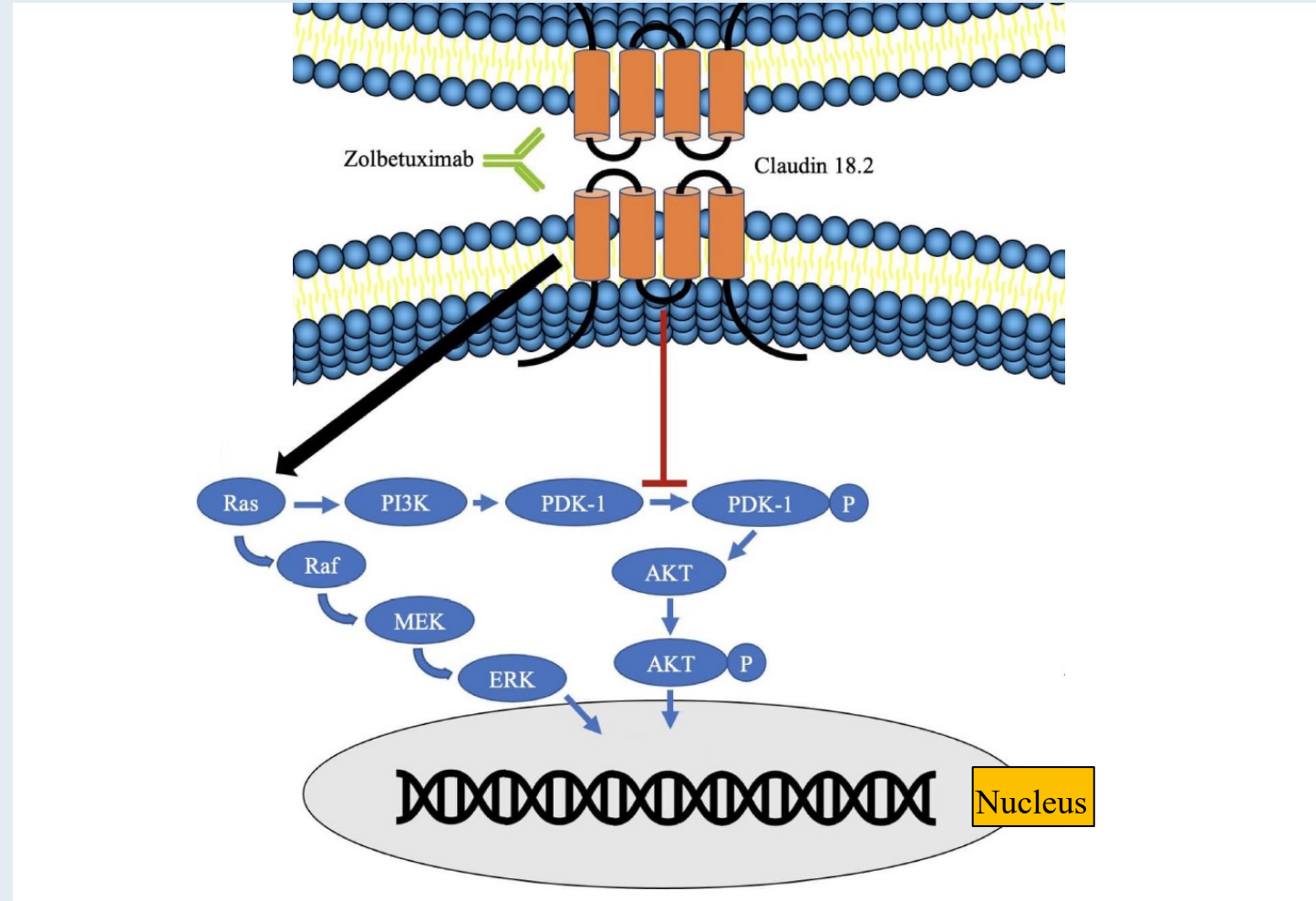
# Key Questions in Upper Gastrointestinal Cancers

**What are some of the novel systemic therapies being evaluated in clinical trials?**

**What is currently known about zolbetuximab?**

**What is currently known about bemarituzumab?**

# Zolbetuximab Mechanism of Action





ORIGINAL ARTICLE

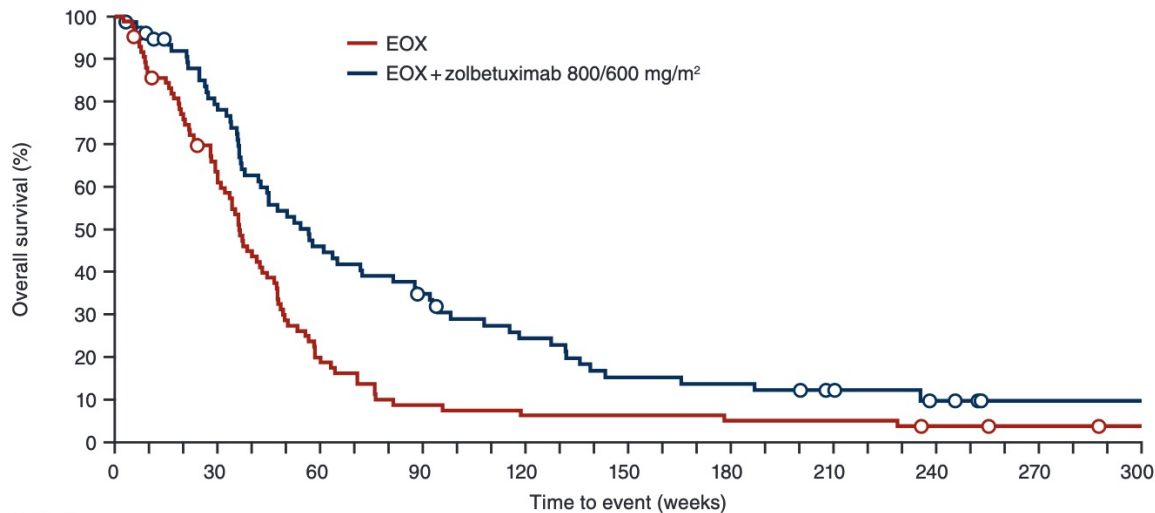
# FAST: a randomised phase II study of zolbetuximab (IMAB362) plus EOX versus EOX alone for first-line treatment of advanced CLDN18.2-positive gastric and gastro-oesophageal adenocarcinoma

U. Sahin<sup>1,2,3</sup>, Ö. Türeci<sup>3,4</sup>, G. Manikhas<sup>5</sup>, F. Lordick<sup>6</sup>, A. Rusyn<sup>7</sup>, I. Vynnychenko<sup>8</sup>, A. Dudov<sup>9</sup>, I. Bazin<sup>10</sup>, I. Bondarenko<sup>11</sup>, B. Melichar<sup>12</sup>, K. Dhaene<sup>13</sup>, K. Wiechen<sup>14</sup>, C. Huber<sup>1,3,4</sup>, D. Maurus<sup>15</sup>, A. Arozullah<sup>16</sup>, J. W. Park<sup>16</sup>, M. Schuler<sup>17†</sup> & S.-E. Al-Batran<sup>18\*†</sup>



# FAST: Overall Survival with Zolbetuximab in Combination with Chemotherapy for Advanced CLDN18.2-Positive Gastric and Gastroesophageal Adenocarcinoma

## Overall population



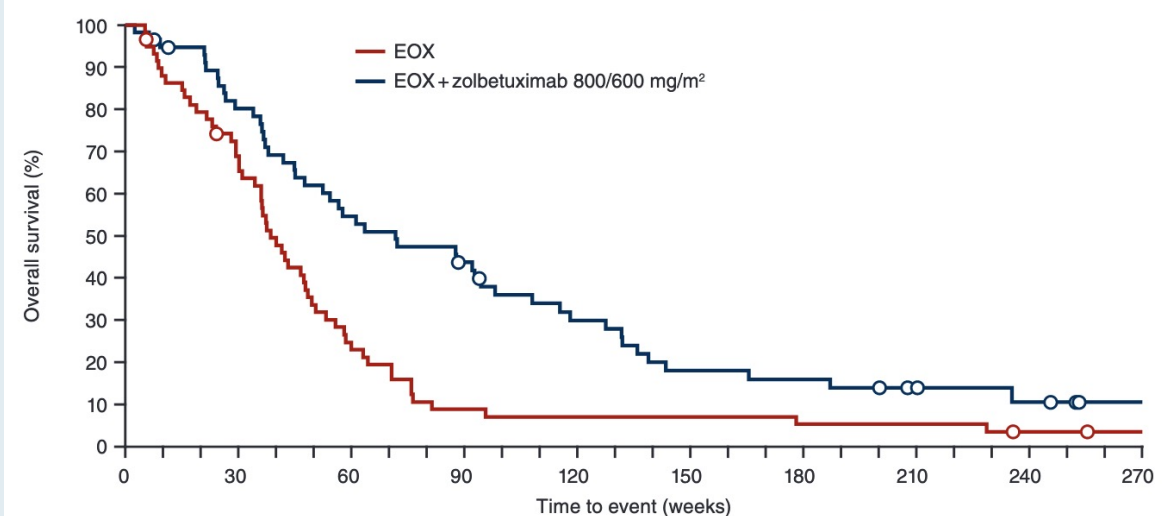
### Median OS

EOX (n = 84): 8.3 months

EOX + zolbetuximab (n = 77): 13.0 months

HR (*p*-value): 0.55 (<0.0005)

## Patients with ≥70% CLDN18.2-positive tumor cells



### Median OS

EOX (n = 59): 8.9 months

EOX + zolbetuximab (n = 57): 16.5 months

HR (*p*-value): 0.50 (<0.0005)

## FAST: Select Treatment-Emergent Adverse Events

Adverse event	EOX (n = 84)		EOX + zolbetuximab (n = 77)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Nausea	76.2%	4.8%	81.8%	6.5%
Vomiting	54.8%	3.6%	67.5%	10.4%
Anemia	35.7%	7.1%	45.5%	11.7%
Neutropenia	34.5%	21.4%	44.2%	32.5%
Weight loss	31.0%	3.6%	32.5%	11.7%
Fatigue	20.2%	3.6%	31.2%	6.5%
Leukopenia	16.7%	6.0%	15.6%	7.8%

# Ongoing Phase III Trials of Zolbetuximab in Combination with Chemotherapy as First-Line Therapy for Gastric or GEJ Adenocarcinoma

Trial identifier	N	Setting	Study arms
GLOW (NCT03653507)	507	<ul style="list-style-type: none"> <li>Locally advanced unresectable or metastatic</li> <li>CLDN18.2-positive</li> <li>HER2-negative</li> </ul>	<ul style="list-style-type: none"> <li>Zolbetuximab + CAPOX</li> <li>Placebo + CAPOX</li> </ul>
SPOTLIGHT (NCT03504397)	550	<ul style="list-style-type: none"> <li>Locally advanced unresectable or metastatic</li> <li>CLDN18.2-positive</li> <li>HER2-negative</li> </ul>	<ul style="list-style-type: none"> <li>Zolbetuximab + mFOLFOX6</li> <li>Placebo + mFOLFOX6</li> </ul>

# ILUSTRO: A Phase II Study of Zolbetuximab Alone or in Combination with Chemotherapy, Immunotherapy or Both for Metastatic or Locally Advanced Unresectable Gastric or GEJ Adenocarcinoma

**Trial Identifier:** NCT03505320 (Open)

**Histologically confirmed gastric or GEJ adenocarcinoma**  
Locally advanced, unresectable or metastatic disease  
Positivity for CLDN18.2 expression

**R**

**Cohort 1A**  
Zolbetuximab

**Cohort 2**  
Zolbetuximab + mFOLFOX6

**Cohort 3A**  
Zolbetuximab + pembrolizumab

**Cohort 4A/4B**  
Zolbetuximab + mFOLFOX6  
+/- nivolumab

**Primary endpoint:** Objective response rate with zolbetuximab monotherapy

**Secondary endpoints** include PFS, pharmacokinetics, safety and tolerability



# 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)

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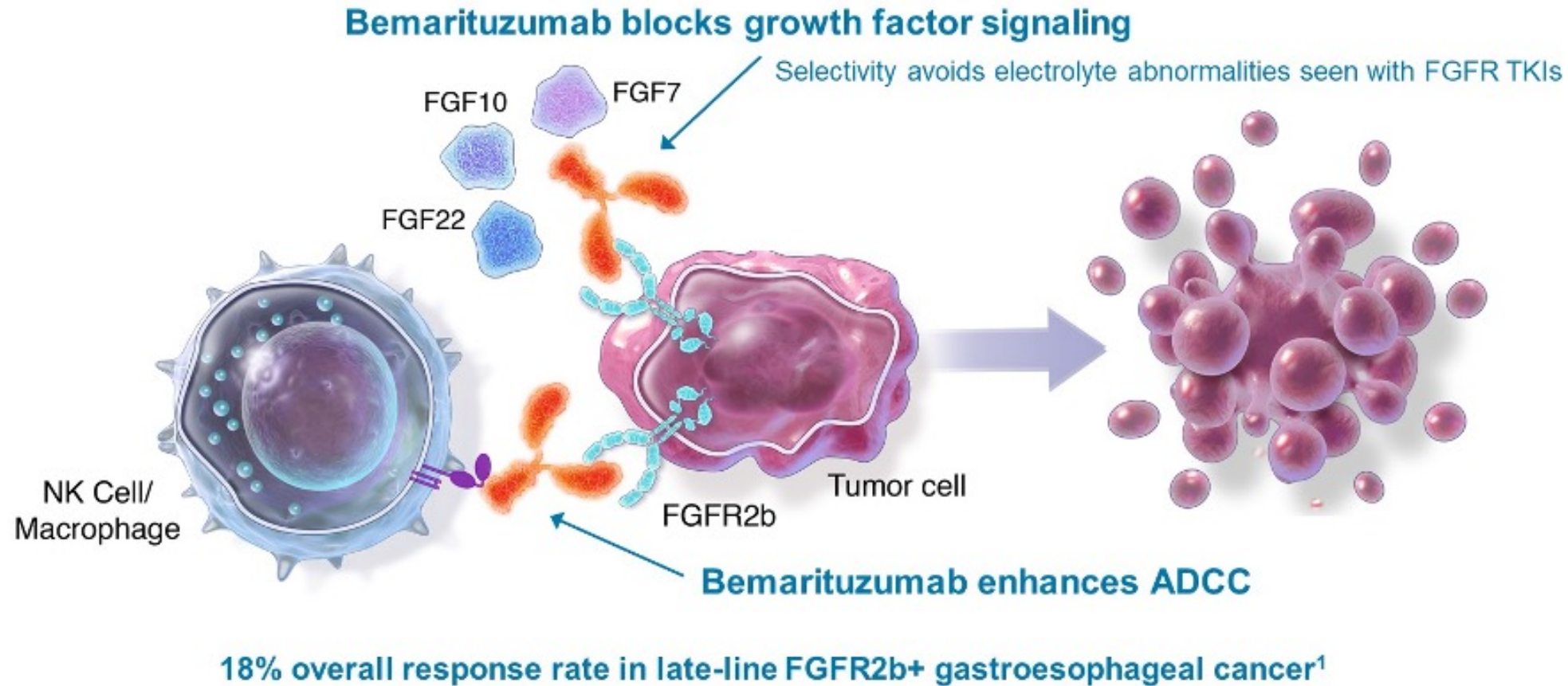
Presenter: Daniel Catenacci, MD  
University of Chicago

**Authors:** Catenacci DV<sup>1</sup>, Kang YK<sup>2</sup>, Saeed A<sup>3</sup>, Yamaguchi K<sup>4</sup>, Qin S<sup>5</sup>, Lee KW<sup>6</sup>, Kim IH<sup>7</sup>, Oh SC<sup>8</sup>, Li J<sup>9</sup>, Turk HM<sup>10</sup>, Teixeira AC<sup>11</sup>, Borg C<sup>12</sup>, Hitre E<sup>13</sup>, Udrea AA<sup>14</sup>, Cardellino GG<sup>15</sup>, Guardado Sanchez R<sup>16</sup>, Mitra S<sup>17</sup>, Yang Y<sup>17</sup>, Enzinger PC<sup>18</sup>, Wainberg ZA<sup>19</sup>

<sup>1</sup>University of Chicago, Chicago, USA; <sup>2</sup>Asan Medical Center, Seoul, South Korea; <sup>3</sup>Kansas University Cancer Center, Westwood, KS, USA; <sup>4</sup>The Cancer Institute Hospital of JFCR, Koto-Ku, Tokyo, Japan; <sup>5</sup>81 Hospital Nanjing University of Chinese Medicine, Nanjing, China; <sup>6</sup>Seoul National University Bundang Hospital, Seoul National University College of Medicine, Seongnam, Gyeonggi-do, South Korea; <sup>7</sup>The Catholic University of Korea, Seoul St. Mary's Hospital, Seoul, South Korea; <sup>8</sup>Korea University Guro Hospital, Seoul, South Korea; <sup>9</sup>Shanghai East Hospital, Shanghai, China; <sup>10</sup>Department of Medical Oncology, Bezmialem Vakif University, School of Medicine, Istanbul, Turkey; <sup>11</sup>Hospital Senhora Da Oliveira, Guimarães, Portugal; <sup>12</sup>Centre Hospitalier Régional Universitaire de Besançon, Besançon France; <sup>13</sup>National Institute of Oncology, Budapest, Hungary; <sup>14</sup>SC Medisprof SRL, Cluj-Napoca, Romania; <sup>15</sup>Department of Oncology, Azienda Sanitaria Universitaria Friuli Centrale, Udine, Italy; <sup>16</sup>Institut Català d'Oncologia, Girona, Spain; <sup>17</sup>FivePrime Therapeutics, Inc., South San Francisco, USA; <sup>18</sup>Dana Farber Cancer Institute, Boston, USA; <sup>19</sup>University of California, Los Angeles, USA



# Bemarituzumab Mechanism of Action



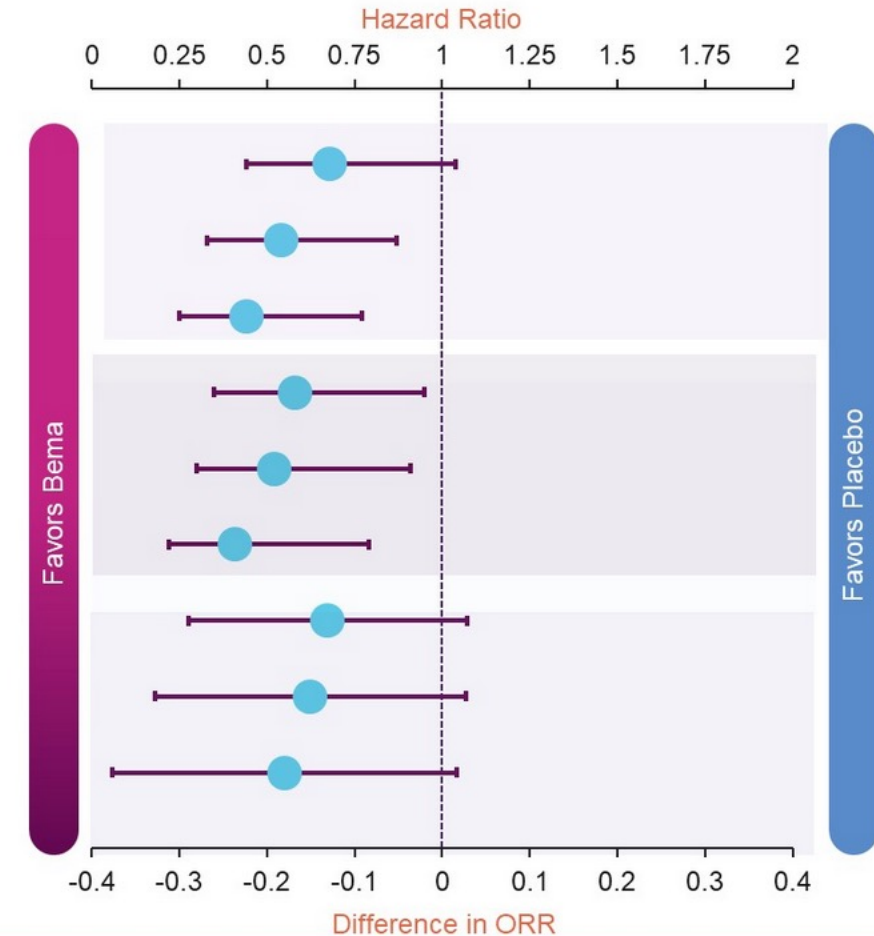
ADCC, antibody-dependent cell-mediated cytotoxicity; FGF, fibroblast growth factor; IgG1, Immunoglobulin G1; NK, natural killer; TKIs, tyrosine kinase inhibitors.

1. Catenacci D, et al. *J Clin Oncol*. 2020.

# FIGHT: Efficacy of First-Line Bemarituzumab with Modified FOLFOX6 for Gastric/GEJ Adenocarcinoma

Endpoint	Subgroup	Median PFS/OS (months) Response rate	HR (95% CI) Difference in ORR (95% CI)
PFS	Overall*	Bema: 9.5 Placebo: 7.4	0.68 (0.44, 1.04)
	IHC 2+ or 3+ $\geq 5\%^{\dagger}$	Bema: 10.2 Placebo: 7.3	0.54 (0.33, 0.87)
	IHC 2+ or 3+ $\geq 10\%^{\ddagger}$	Bema: 14.1 Placebo: 7.3	0.44 (0.25, 0.77)
OS	Overall	Bema: NR Placebo: 12.9	0.58 (0.35, 0.95)
	IHC 2+ or 3+ $\geq 5\%$	Bema: NR Placebo: 12.5	0.52 (0.30, 0.91)
	IHC 2+ or 3+ $\geq 10\%$	Bema: NR Placebo: 11.1	0.41 (0.22, 0.79)
ORR	Overall	Bema: 36 (46.8%) Placebo: 26 (33.3%)	-13.1% $^{\S}$ (-29.0%, 2.8%)
	IHC 2+ or 3+ $\geq 5\%$	Bema: 30 (51.7%) Placebo: 22 (36.7%)	-15.1% $^{\S}$ (-32.8%, 2.7%)
	IHC 2+ or 3+ $\geq 10\%$	Bema: 24 (54.5%) Placebo: 19 (36.5%)	-18.0% $^{\S}$ (-37.7%, 1.7%)

\*N = 155;  $^{\dagger}$ N = 118;  $^{\ddagger}$ N = 96;  $^{\S}$ difference in ORR is calculated by (placebo ORR – Bema ORR).  
NR, not reached.



- Median OS was reached in the overall population with longer follow-up – 5.7-mo improvement



# FIGHT: Selected Treatment-Related Adverse Event Summary

Selected AE (Preferred term)	Any Grade		Grade ≥3	
	Bema (N = 76)	Placebo (N = 77)	Bema (N = 76)	Placebo (N = 77)
<b>Total Events</b>	<b>76 (100.0%)</b>	<b>76 (98.7%)</b>	<b>63 (82.9%)</b>	<b>57 (74.0%)</b>
Nausea	36 (47.4%)	41 (53.2%)	0	3 (3.9%)
Vomiting	22 (28.9%)	24 (31.2%)	2 (2.6%)	2 (2.6%)
Diarrhea	31 (40.8%)	24 (31.2%)	2 (2.6%)	1 (1.3%)
Stomatitis	24 (31.6%)	10 (13.0%)	7 (9.2%)	1 (1.3%)
Peripheral sensory neuropathy	15 (19.7%)	15 (19.5%)	4 (5.3%)	3 (3.9%)
Neutrophil count decreased	31 (40.8%)	33 (42.9%)	23 (30.3%)	27 (35.1%)
Platelet count decreased	14 (18.4%)	21 (27.3%)	1 (1.3%)	0
Aspartate aminotransferase increased	23 (30.3%)	15 (19.5%)	4 (5.3%)	2 (2.6%)
Alanine aminotransferase increased	22 (28.9%)	11 (14.3%)	2 (2.6%)	1 (1.3%)
Dry eye	20 (26.3%)	5 (6.5%)	2 (2.6%)	0

AE, adverse event.

# Key Questions in Upper Gastrointestinal Cancers

**What are some of the palliative care issues that arise for patients with metastatic upper GI cancers?**

# **Agenda:**

## **Management of Gastroesophageal Cancers**

**Introduction – Overview**

**Module 1 – Management of Localized Disease**

**Module 2 – Management of HER2-Negative Metastatic Disease**

**Module 3 – Management of HER2-Positive Metastatic Disease**

# Key Questions in Upper Gastrointestinal Cancers

**What percent of patients with upper GI cancers are considered HER2-positive, and how is this determined?**

**In general, what are the PD-L1 levels in these patients?**

# Key Questions in Upper Gastrointestinal Cancers

**What is the usual first-line treatment for patients with HER2-positive metastatic upper GI cancers?**

**How has the treatment approach changed in the last year?**

*Nature* 2021;600(7890):727-30.

**Article**

# **The KEYNOTE-811 trial of dual PD-1 and HER2 blockade in HER2-positive gastric cancer**

<https://doi.org/10.1038/s41586-021-04161-3>

Received: 25 May 2021

Accepted: 30 September 2021

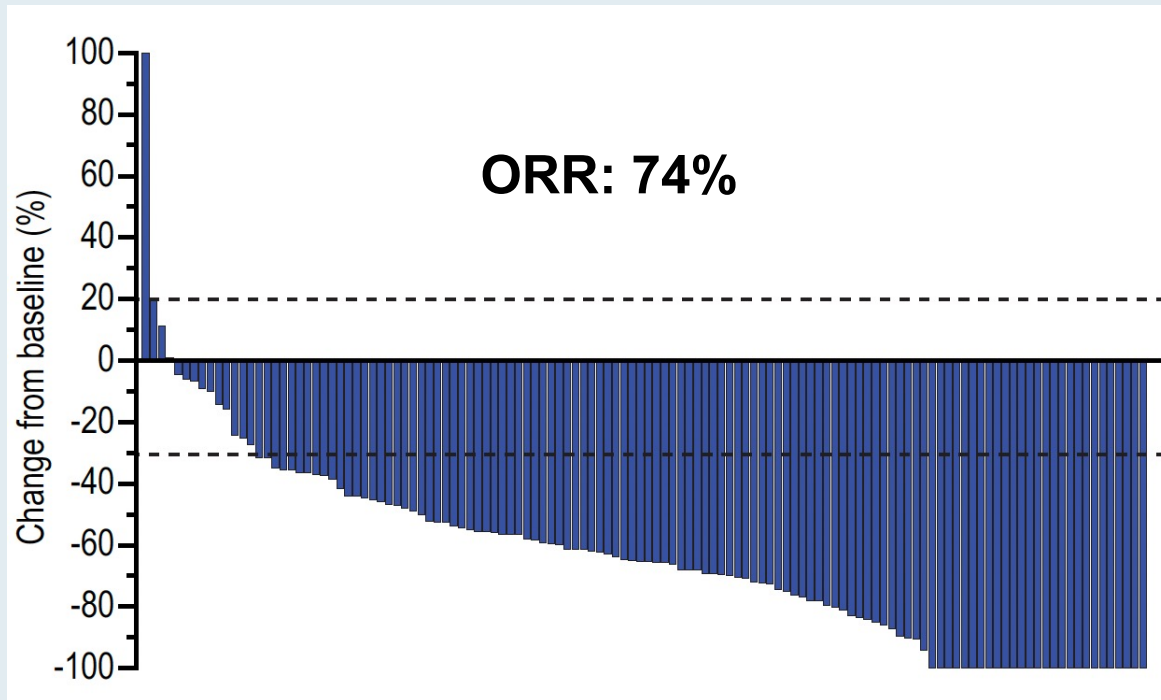
Published online: 15 December 2021

Yelena Y. Janjigian<sup>1✉</sup>, Akihito Kawazoe<sup>2</sup>, Patricio Yañez<sup>3</sup>, Ning Li<sup>4</sup>, Sara Lonardi<sup>5</sup>, Oleksii Kolesnik<sup>6</sup>, Olga Barajas<sup>7</sup>, Yuxian Bai<sup>8</sup>, Lin Shen<sup>9</sup>, Yong Tang<sup>10</sup>, Lucjan S. Wyrwicz<sup>11</sup>, Jianming Xu<sup>12</sup>, Kohei Shitara<sup>2</sup>, Shukui Qin<sup>13</sup>, Eric Van Cutsem<sup>14</sup>, Josep Tabernero<sup>15</sup>, Lie Li<sup>16</sup>, Sukrut Shah<sup>16</sup>, Pooja Bhagia<sup>16</sup> & Hyun Cheol Chung<sup>17</sup>

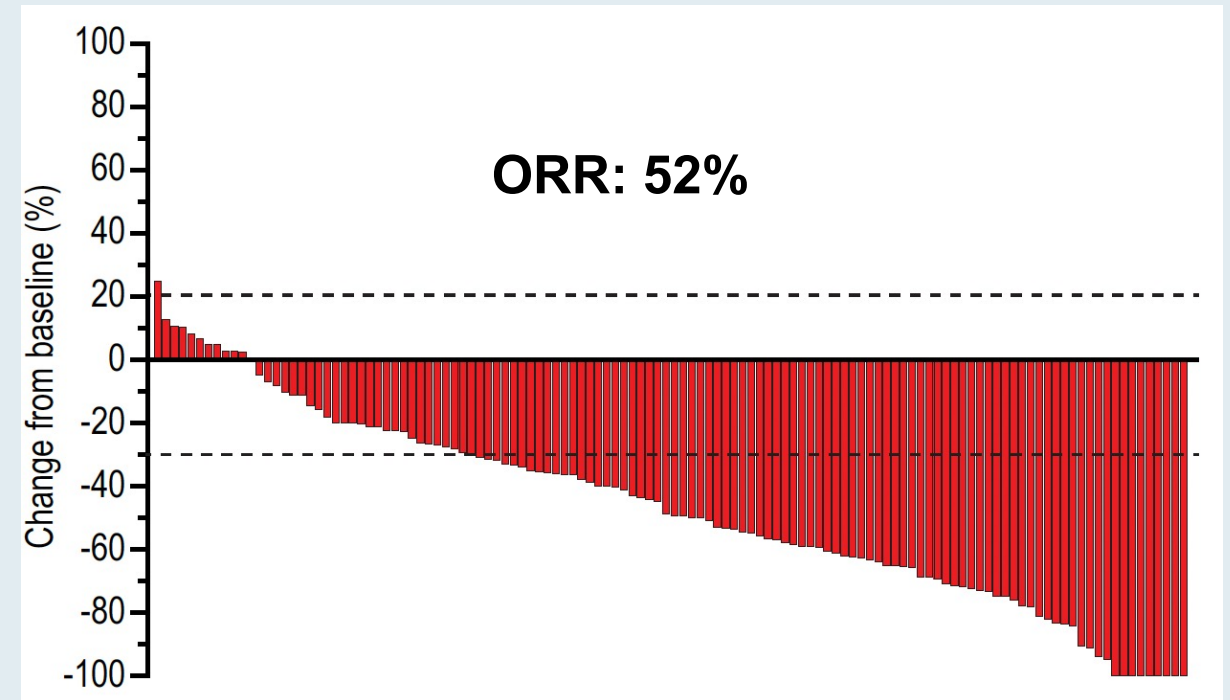


# KEYNOTE-811: Overall Response Rate

## Pembrolizumab



## Placebo



## KEYNOTE-811: Summary of Adverse Events

Number of events (%)	Any cause		Immune-mediated events and infusion reactions <sup>a</sup>	
	Pembrolizumab group (n = 217)	Placebo group (n = 216)	Pembrolizumab group (n = 217)	Placebo group (n = 216)
Any grade	211 (97.2)	212 (98.1)	73 (33.6)	45 (20.8)
Grade 3–5	124 (57.1)	124 (57.4)	21 (9.7)	7 (3.2)
Serious	68 (31.3)	83 (38.4)	19 (8.8)	7 (3.2)
Led to death	7 (3.2)	10 (4.6)	3 (1.4)	1 (0.5)
Led to discontinuation of any drug	53 (24.4)	56 (25.9)	12 (5.5)	5 (2.3)
Pembrolizumab or placebo	12 (5.5)	15 (6.9)	7 (3.2)	2 (0.9)
Trastuzumab	12 (5.5)	16 (7.4)	7 (3.2)	2 (0.9)
Any chemotherapy	50 (23.0)	52 (24.1)	12 (5.5)	5 (2.3)
All drugs	8 (3.7)	12 (5.6)	6 (2.8)	2 (0.9)

The treatment regimen included trastuzumab and chemotherapy in both groups.

<sup>a</sup>Events with a possible immune-mediated cause and infusion reactions were considered regardless of attribution to study treatment or immune relatedness by the investigator and are based on a list of terms provided by the sponsor.

# Key Questions in Upper Gastrointestinal Cancers

**What is trastuzumab deruxtecan and how does it work?**

**How do you generally explain the risks and benefits of this agent to patients?**

# Key Questions in Upper Gastrointestinal Cancers

**What do you say to patients with HER2-positive metastatic upper GI cancers who are about to begin treatment with trastuzumab deruxtecan in terms of what to expect?**

**How do you monitor cardiopulmonary toxicity in these patients?**

**ASCO** Gastrointestinal **2022**  
Cancers Symposium

# **Trastuzumab Deruxtecan (T-DXd; DS-8201) in Patients With HER2-Positive Advanced Gastric or Gastroesophageal Junction (GEJ) Adenocarcinoma: Final Overall Survival (OS) Results From a Randomized, Multicenter, Open-Label, Phase 2 Study (DESTINY-Gastric01)**

Kensei Yamaguchi

The Cancer Institute Hospital of JFCR, Tokyo, Japan

ON BEHALF OF THE DESTINY-GASTRIC01 INVESTIGATORS

*Additional authors:* Yung-Jue Bang, Satoru Iwasa, Naotoshi Sugimoto, Min-Hee Ryu, Daisuke Sakai, Hyun Cheol Chung, Hisato Kawakami, Hiroshi Yabusaki, Jeeyun Lee, Kaku Saito, Yoshinori Kawaguchi, Takahiro Kamio, Akihito Kojima, Masahiro Sugihara, Kohei Shitara

**ASCO** Gastrointestinal  
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PRESENTED BY: Kensei Yamaguchi, MD

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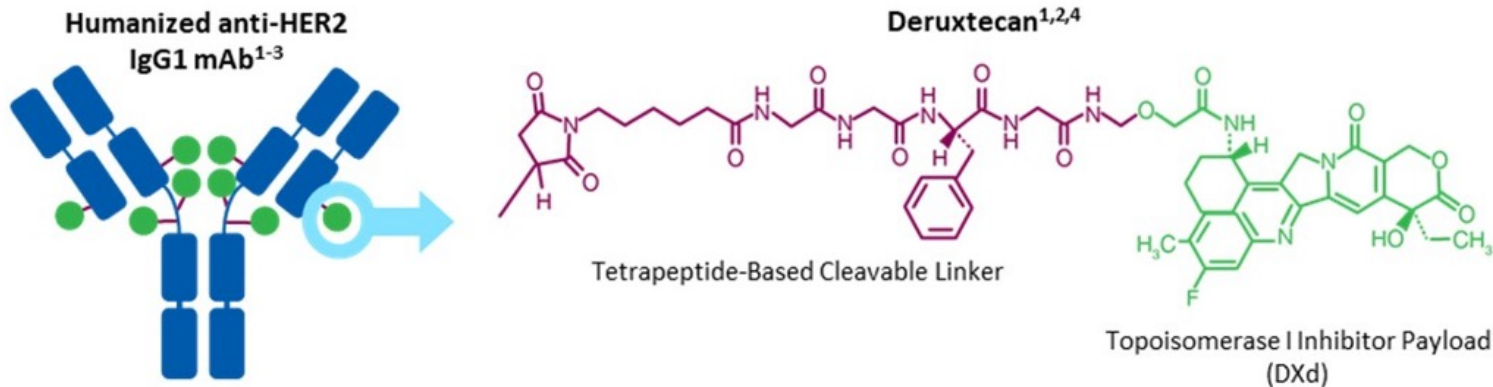
**RTP**  
RESEARCH  
TO PRACTICE



# Trastuzumab Deruxtecan (T-DXd) Is a Novel Antibody-Drug Conjugate (ADC) Designed to Deliver an Antitumor Effect

## T-DXd is an ADC with 3 components:

- A humanized anti-HER2 IgG1 mAb with the same amino acid sequence as trastuzumab
- A topoisomerase I inhibitor payload, an exatecan derivative
- A tetrapeptide-based cleavable linker



- T-DXd is being clinically evaluated across a number of HER2-expressing or mutated cancers, including breast cancer, CRC, non-small cell lung cancer, and others

Payload mechanism of action:  
topoisomerase I inhibitor

High potency of payload

High drug to antibody ratio  $\approx 8$

Payload with short systemic half-life

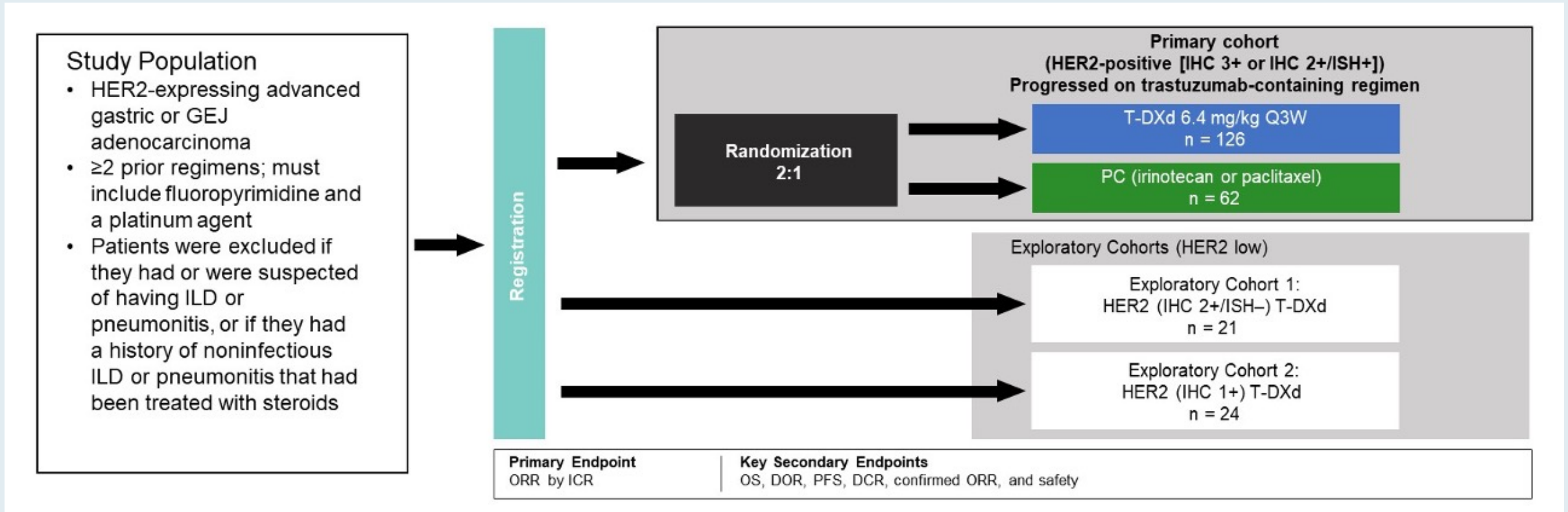
Stable linker-payload

Tumor-selective cleavable linker

Membrane-permeable payload



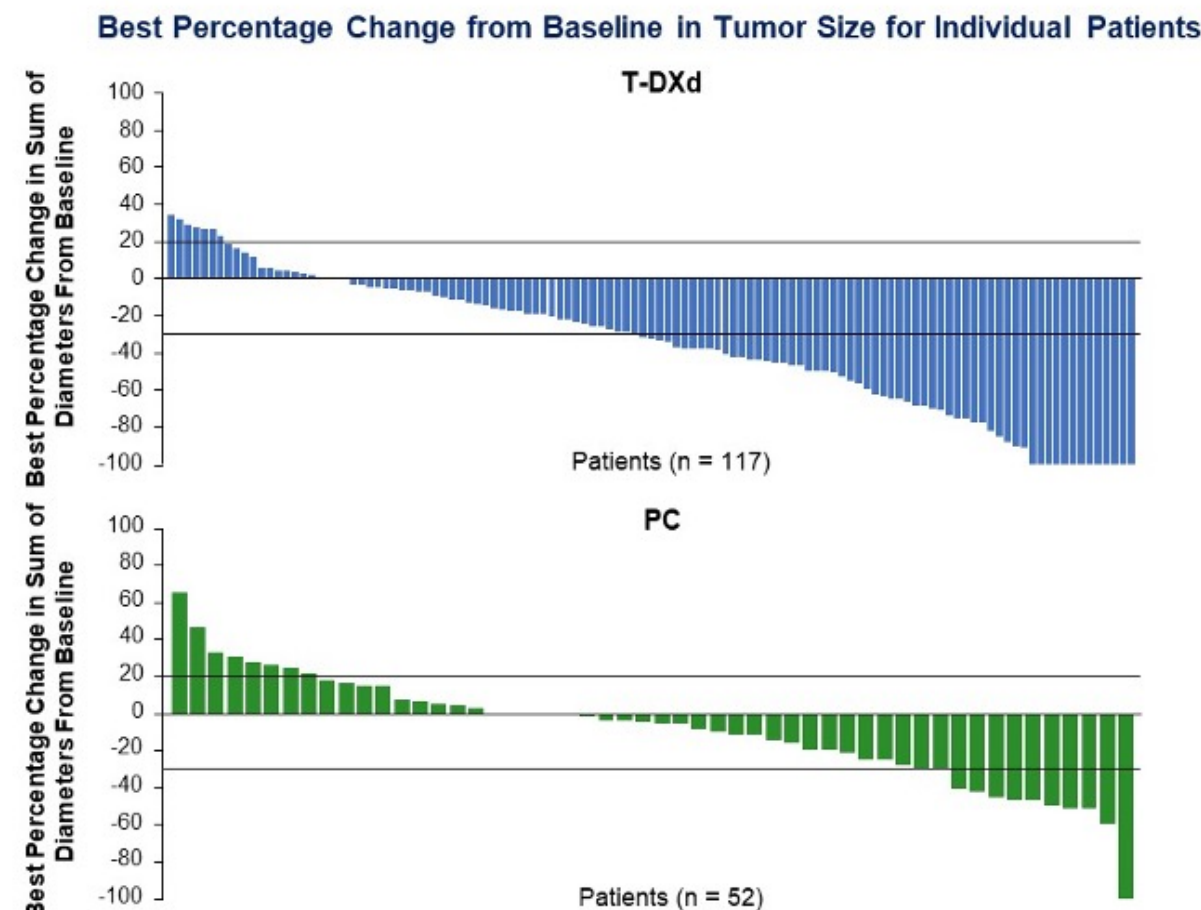
# DESTINY-Gastric01 Randomized, Phase II Study Design



ILD = interstitial lung disease; PC = physician's choice of therapy

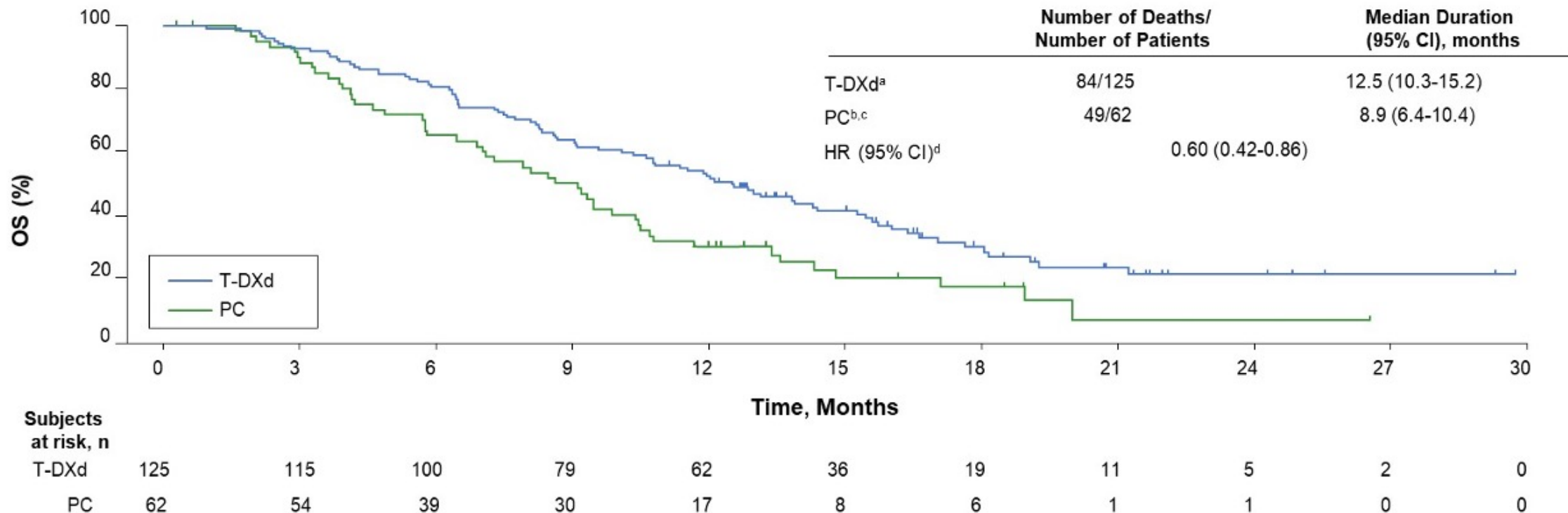
# DESTINY-Gastric01: Antitumor Activity

	T-DXd n = 119	PC Overall n = 56
<b>ORR (CR + PR) by ICR, n (%)<sup>a</sup></b>	<b>61 (51.3)</b>	<b>8 (14.3)</b>
	<b>95% CI, 41.9-60.5</b>	<b>95% CI, 6.4-26.2</b>
	<i>P</i> < 0.0001 <sup>b</sup>	
CR	11 (9.2)	0
PR	50 (42.0)	8 (14.3)
SD	42 (35.3)	27 (48.2)
PD	14 (11.8)	17 (30.4)
Not evaluable	2 (1.7)	4 (7.1)
<b>Confirmed ORR (CR + PR) by ICR, n (%)<sup>a</sup></b>	<b>50 (42.0)</b>	<b>7 (12.5)</b>
	<b>95% CI, 33.0-51.4</b>	<b>95% CI, 5.2-24.1</b>
CR	10 (8.4)	0
PR	40 <sup>c</sup> (33.6)	7 (12.5)
SD	52 (43.7)	28 (50.0)
PD	14 (11.8)	17 (30.4)
Not evaluable	3 (2.5)	4 (7.1)
<b>Confirmed DCR (CR + PR + SD), n (%)<sup>a</sup></b>	<b>102 (85.7)</b>	<b>35 (62.5)</b>
	<b>95% CI, 78.1-91.5</b>	<b>95% CI, 48.5-75.1</b>
<b>Confirmed DOR, median, months</b>	<b>12.5</b>	<b>3.9</b>
	<b>95% CI, 5.6-NE</b>	<b>95% CI, 3.0-4.9</b>
<b>TTR, median, months</b>	<b>1.5</b>	<b>1.6</b>
	<b>95% CI, 1.4-1.7</b>	<b>95% CI, 1.3-1.7</b>



# DESTINY-Gastric01: Final Overall Survival (OS)

## Kaplan-Meier Analysis of OS



As in the primary analysis (101 OS events; 54.0% maturity), in this updated analysis (133 OS events; 71.1% maturity), T-DXd showed superior antitumor activity compared to PC

## DESTINY-Gastric01: Select Adverse Events

Adverse event	T-DXd (n = 125)		PC Overall (n = 62)	
	Any grade	Grade ≥3	Any grade	Grade ≥3
Neutrophil count decrease	65%	51%	36%	24%
Nausea	63%	6%	47%	2%
Decreased appetite	61%	17%	45%	13%
Anemia	58%	38%	31%	23%
Platelet count decrease	40%	11%	7%	3%
WBC count decrease	38%	21%	36%	11%
Lymphocyte count decrease	23%	12%	3%	2%

16 patients (13%) had T-DXd-related interstitial lung disease/pneumonitis:

- 13/16 were Grade 1 or 2
- Median time to first onset: 102.5 days

## **Appendix of Recent Data Sets**

# Checkpoint Inhibitor Approvals in Gastric, GEJ and Esophageal Cancers

Regimen/FDA approval date/Pivotal trial	Location	Histology	Setting	PD-L1
Nivolumab 5/20/21 (CM-577)	Esophageal, GEJ	Adenocarcinoma and squamous	<ul style="list-style-type: none"> <li>Completed resected, with residual pathologic disease after neoadjuvant chemoradiation</li> </ul>	Not required
Pembrolizumab + cisplatin/5-FU 3/22/2021 (KN-590)	Esophageal, GEJ	Adenocarcinoma and squamous	<ul style="list-style-type: none"> <li>Recurrent locally advanced or metastatic</li> <li>Not amenable to surgical resection or definitive chemoradiation</li> </ul>	Not required
Nivolumab + mFOLFOX6 or CAPOX 4/16/2021 (CM-649)	Gastric, GEJ, esophageal	Adenocarcinoma	<ul style="list-style-type: none"> <li>Advanced or metastatic gastric, GEJ or esophageal adenocarcinoma</li> </ul>	Not required
Pembrolizumab 7/30/2019 (KN-181)	Esophageal, GEJ	Squamous	<ul style="list-style-type: none"> <li>Recurrent locally advanced or metastatic</li> <li>Not amenable to surgical resection or definitive chemoradiation</li> <li>After ≥1 prior lines of systemic therapy</li> </ul>	CPS ≥10
Nivolumab 6/10/2020 (ATTRACTION-3)	Esophageal	Squamous	<ul style="list-style-type: none"> <li>Unresectable advanced, recurrent or metastatic</li> <li>After prior fluoropyrimidine- and platinum-based chemotherapy</li> </ul>	Not required

Kelly RJ et al. *New Engl J Med*. 2021; 384(13):1191-1203. Sun J et al. *Lancet*. 2021; 398(10302):759-771. Janjigian YY et al. *Lancet* 2021;398(10294):27-40. Kojima T et al. *J Clin Oncol*. 2020;38(35):4138-4148. Kato K et al. *Lancet Oncol*. 2019; 20(11):1506-1517.



## Recent FDA Approvals in HER2-Positive Gastric, GEJ and Esophageal Cancer

Regimen/FDA approval date/Pivotal trial	Location	Histology	Setting	PD-L1
Pembrolizumab + trastuzumab + chemotherapy 5/5/2021 (KN-811)	Gastric, GEJ	Adenocarcinoma	<ul style="list-style-type: none"> <li>First-line treatment for locally advanced, unresectable or metastatic HER2-positive gastric or GEJ adenocarcinoma</li> </ul>	Not required
Trastuzumab deruxtecan 1/15/2021 (DESTINY-Gastric01)	Gastric, GEJ	Adenocarcinoma	<ul style="list-style-type: none"> <li>Patients who have received a prior trastuzumab-based regimen</li> </ul>	Not required

# The Role of the TP53 Pathway in Predicting Response to Neoadjuvant Therapy in Esophageal Adenocarcinoma

Smita Sihag<sup>1</sup>, Samuel C. Nussenzweig<sup>1</sup>, Henry S. Walch<sup>2</sup>, Meier Hsu<sup>3</sup>, Kay See Tan<sup>3</sup>, Sergio De La Torre<sup>1</sup>, Yelena Y. Janjigian<sup>4</sup>, Steven B. Maron<sup>4</sup>, Geoffrey Y. Ku<sup>4</sup>, Laura H. Tang<sup>5</sup>, Pari M. Shah<sup>4</sup>, Abraham Wu<sup>6</sup>, David R. Jones<sup>1</sup>, David B. Solit<sup>2</sup>, Nikolaus Schultz<sup>2</sup>, Karuna Ganesh<sup>4</sup>, Michael F. Berger<sup>2</sup>, and Daniela Molena<sup>1</sup>

Published online ahead of print 2022; CCR-21-4016.

# Nivolumab plus chemotherapy or ipilimumab in gastro-oesophageal cancer

<https://doi.org/10.1038/s41586-022-04508-4>

Received: 22 October 2021

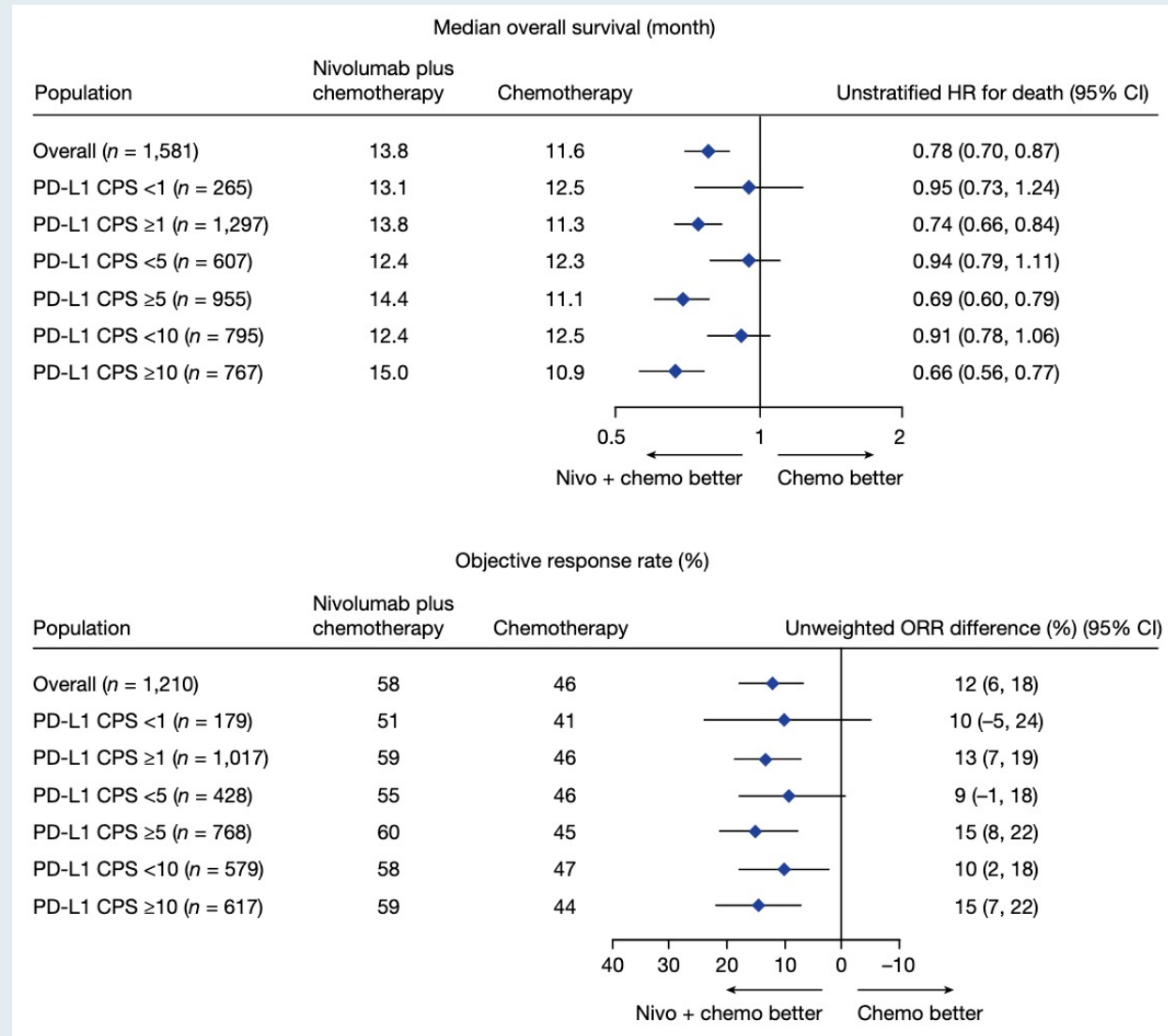
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Kohei Shitara<sup>1</sup>, Jaffer A. Ajani<sup>2</sup>, Markus Moehler<sup>3</sup>, Marcelo Garrido<sup>4</sup>, Carlos Gallardo<sup>5</sup>, Lin Shen<sup>6</sup>, Kensei Yamaguchi<sup>7</sup>, Lucjan Wyrwicz<sup>8</sup>, Tomasz Skoczylas<sup>9</sup>, Arinilda Campos Bragagnoli<sup>10</sup>, Tianshu Liu<sup>11</sup>, Mustapha Tehfe<sup>12</sup>, Elena Elimova<sup>13</sup>, Ricardo Bruges<sup>14</sup>, Thomas Zander<sup>15</sup>, Sergio de Azevedo<sup>16</sup>, Ruben Kowalyszyn<sup>17</sup>, Roberto Pazo-Cid<sup>18</sup>, Michael Schenker<sup>19</sup>, James M. Cleary<sup>20</sup>, Patricio Yanez<sup>21</sup>, Kynan Feeney<sup>22</sup>, Michalis V. Karamouzis<sup>23</sup>, Valerie Poulart<sup>24</sup>, Ming Lei<sup>24</sup>, Hong Xiao<sup>24</sup>, Kaoru Kondo<sup>24</sup>, Mingshun Li<sup>24</sup> & Yelena Y. Janjigian<sup>25</sup>✉

# CheckMate 649: Efficacy Subgroup Analysis by PD-L1 CPS Excluding Patients with Microsatellite Instability-High Tumors



ORIGINAL ARTICLE

# Nivolumab Combination Therapy in Advanced Esophageal Squamous-Cell Carcinoma

Y. Doki, J.A. Ajani, K. Kato, J. Xu, L. Wyrwicz, S. Motoyama, T. Ogata, H. Kawakami, C.-H. Hsu, A. Adenis, F. El Hajbi, M. Di Bartolomeo, M.I. Braghiroli, E. Holtved, S.A. Ostoich, H.R. Kim, M. Ueno, W. Mansoor, W.-C. Yang, T. Liu, J. Bridgewater, T. Makino, I. Xynos, X. Liu, M. Lei, K. Kondo, A. Patel, J. Gricar, I. Chau, and Y. Kitagawa, for the CheckMate 648 Trial Investigators\*

***N Engl J Med 2022;386(5):449-62.***

## CheckMate 648: Antitumor Activity (BICR)

Endpoint	PD-L1 ≥1%			Overall population		
	Nivo/chemo (n = 158)	Nivo/ipi (n = 158)	Chemotherapy (n = 157)	Nivo/chemo (n = 321)	Nivo/ipi (n = 325)	Chemotherapy (n = 324)
ORR	53%	35%	20%	47%	28%	27%
<b>Best overall response</b>						
Complete response	16%	18%	5%	13%	11%	6%
Partial response	37%	18%	15%	34%	17%	21%
Stable disease	25%	27%	46%	32%	32%	46%
Progressive disease	14%	30%	15%	13%	32%	12%
Median DoR	8.4 mo	11.8 mo	5.7 mo	8.2 mo	11.1 mo	7.1 mo
Pts with ongoing response	13%	25%	3%	17%	22%	6%

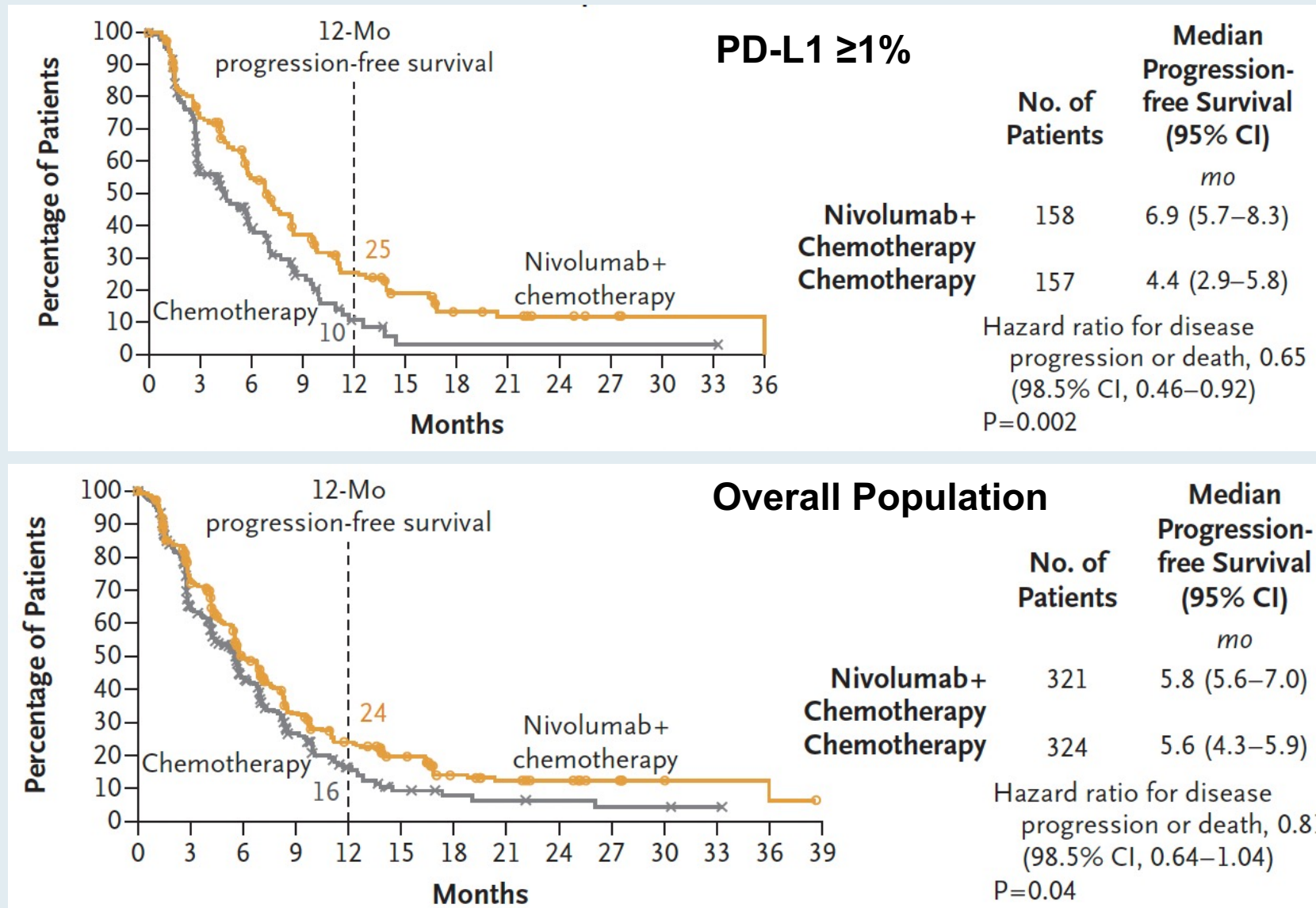
BICR = blinded independent central review; DoR = duration of response



## CheckMate 648: Select Treatment-Related Adverse Events (AEs)

Endpoint	Nivolumab/chemotherapy (N = 310)		Nivolumab/ipilimumab (N = 322)		Chemotherapy (N = 304)	
	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4
Serious AEs	53%	35%	20%	47%	28%	27%
AEs leading to discontinuation	16%	18%	5%	13%	11%	6%
Nausea	59%	4%	8%	<1%	52%	3%
Stomatitis	32%	6%	4%	0	23%	2%
Anemia	30%	10%	4%	1%	22%	6%
Decreased neutrophils	21%	8%	1%	0	17%	8%
Decreased white cells	14%	4%	1%	0	9%	2%

# CheckMate 648: Progression-Free Survival for PD-L1 $\geq 1\%$ and in the Overall Population – Nivolumab + Chemotherapy



# First-line Pembrolizumab Plus Chemotherapy Versus Chemotherapy in Advanced Esophageal Cancer: Longer-term Efficacy, Safety, and Quality-of-life Results From the Phase 3 KEYNOTE-590 Study

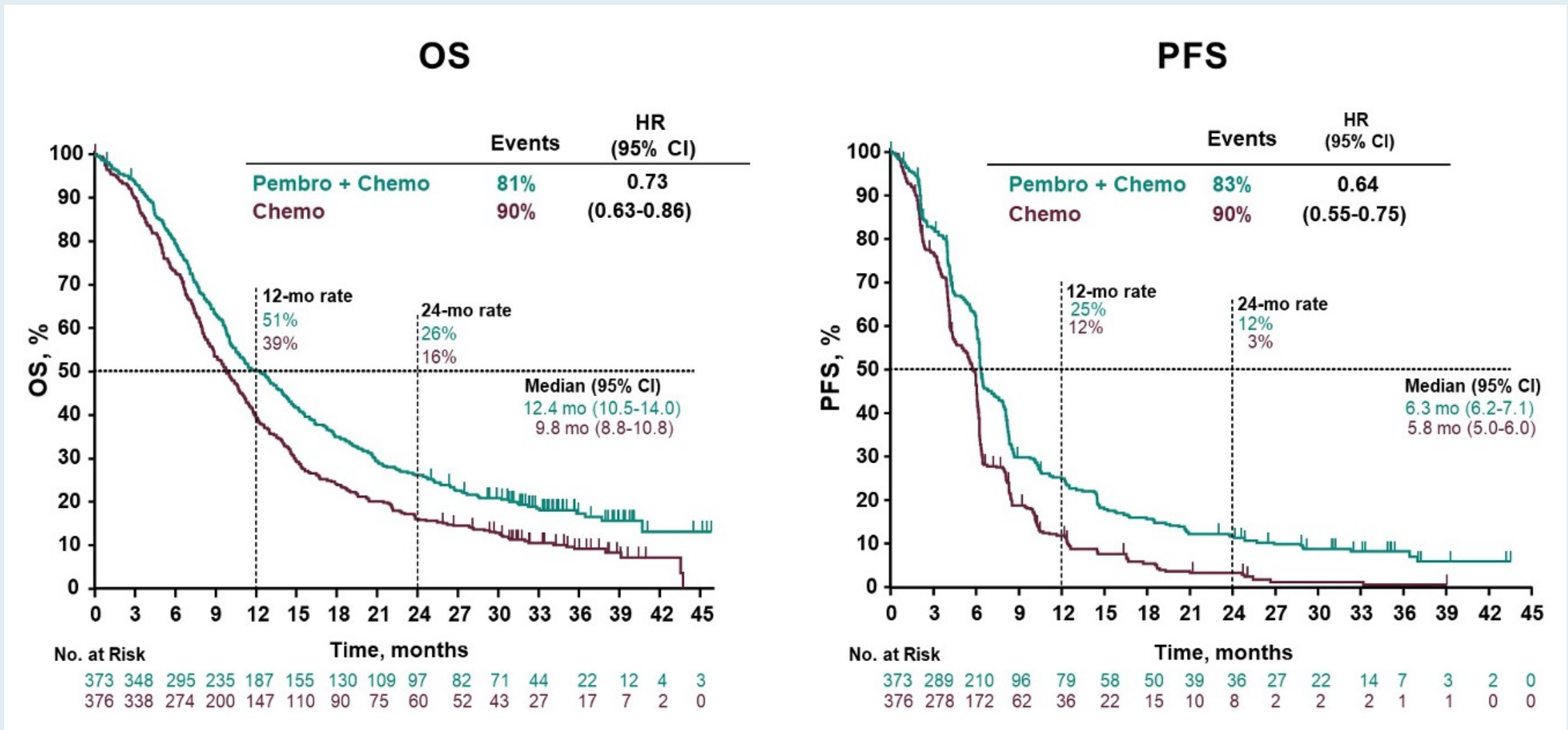
Jean-Philippe Metges,<sup>1</sup> Ken Kato,<sup>2</sup> Jong-Mu Sun,<sup>3</sup> Manish A. Shah,<sup>4</sup> Peter Enzinger,<sup>5</sup> Antoine Adenis,<sup>6</sup> Toshihiko Doi,<sup>7</sup> Takashi Kojima,<sup>7</sup> Zhigang Li,<sup>8</sup> Sung-Bae Kim,<sup>9</sup> Byoung Chul Cho,<sup>10</sup> Wasat Mansoor,<sup>11</sup> Shau-Hsuan Li,<sup>12</sup> Patrapim Sunpaweravong,<sup>13</sup> Maria Alsina Maqueda,<sup>14</sup> Gary L. Buchsacher, Jr,<sup>15</sup> Wu Jimin,<sup>16</sup> Sukrut Shah,<sup>16</sup> Pooja Bhagia,<sup>16</sup> Lin Shen<sup>17</sup>

<sup>1</sup>CHU Brest – Institut de Cancerologie et d'Hematologie ARPEGO Network, Brest, France; <sup>2</sup>National Cancer Center Hospital, Tokyo, Japan; <sup>3</sup>Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea; <sup>4</sup>Weill Cornell Medical College, New York, NY, USA; <sup>5</sup>Dana Farber Cancer Institute, Boston, MA, USA; <sup>6</sup>IRCM, Inserm, Université Montpellier, ICM, Montpellier, France; <sup>7</sup>National Cancer Center Hospital East, Kashiwa, Japan; <sup>8</sup>Shanghai Chest Hospital Esophageal Disease Center, Shanghai, China; <sup>9</sup>Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea; <sup>10</sup>Severance Hospital, Yonsei University Health System, Seoul, Republic of Korea; <sup>11</sup>Christie Hospital NHS Trust, Manchester, United Kingdom; <sup>12</sup>Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan; <sup>13</sup>Prince of Songkla University Hospital, Songkhla, Thailand; <sup>14</sup>Vall d'Hebron Institute of Oncology, Barcelona, Spain; <sup>15</sup>Kaiser Permanente Southern California, Los Angeles Medical Center, Los Angeles, CA, USA; <sup>16</sup>Merck Sharp & Dohme Corp., a subsidiary of Merck & Co., Inc., Kenilworth, NJ, USA; <sup>17</sup>Peking University Cancer Hospital & Institute, Beijing, China

**Gastrointestinal Cancers Symposium 2022;Abstract 241.**

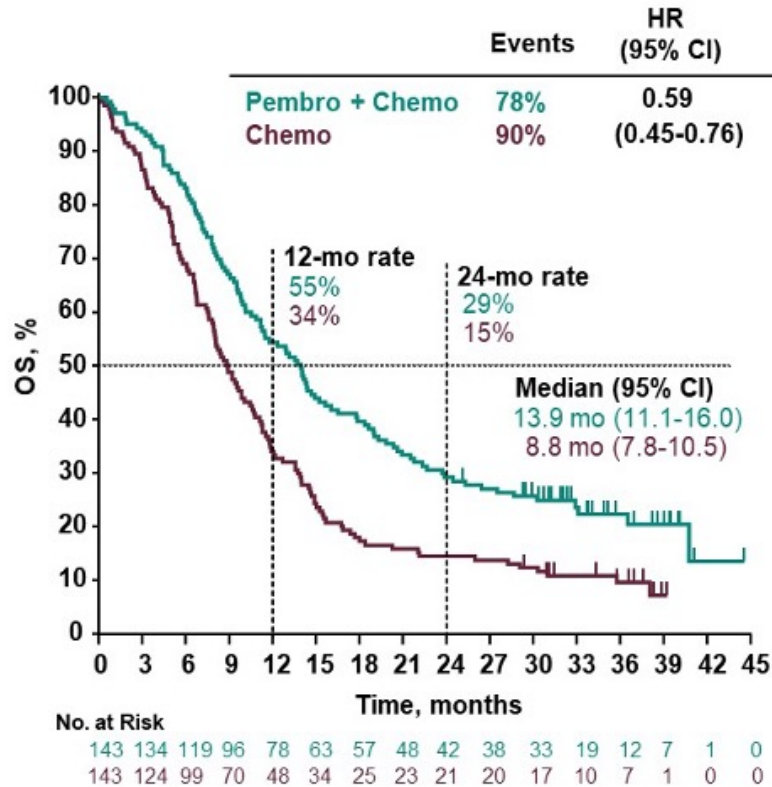


# KEYNOTE-590: Survival Analyses (All Patients)

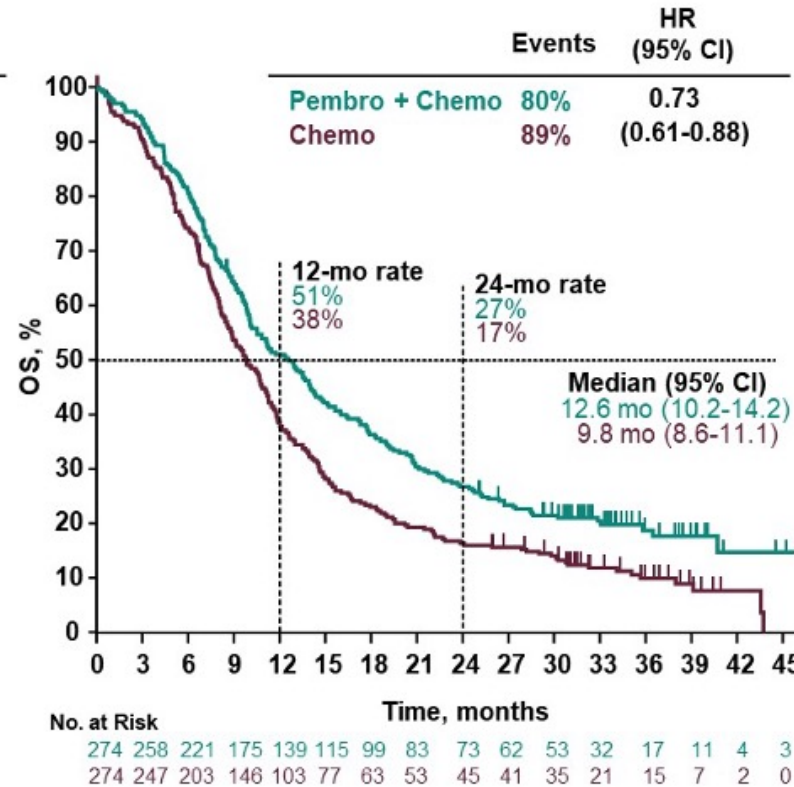


# KEYNOTE-590: Overall Survival (OS) in Prespecified Subgroups

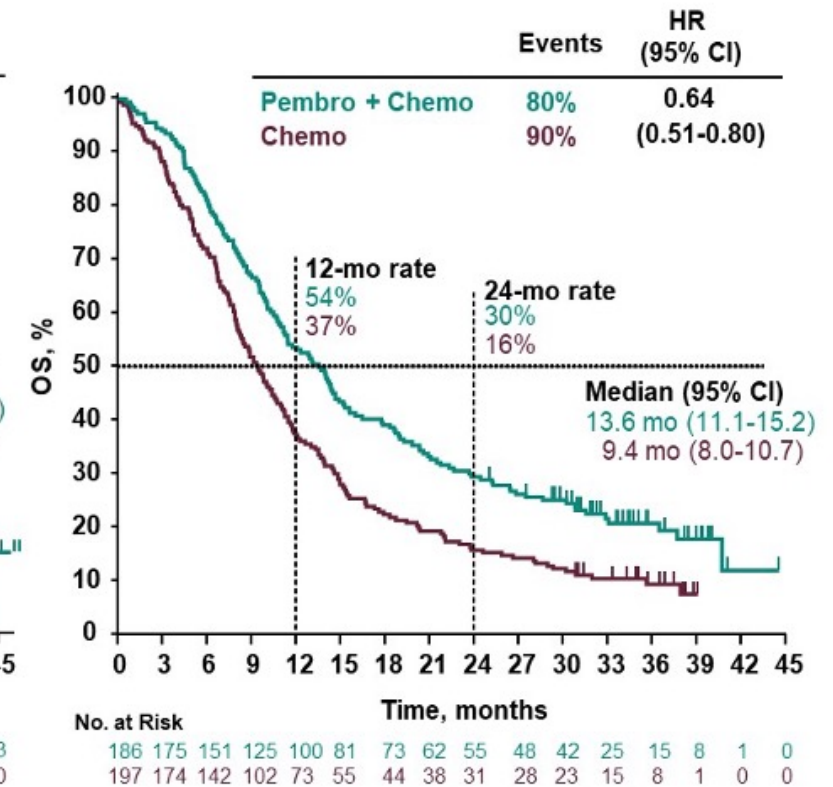
## ESCC PD-L1 CPS $\geq 10$



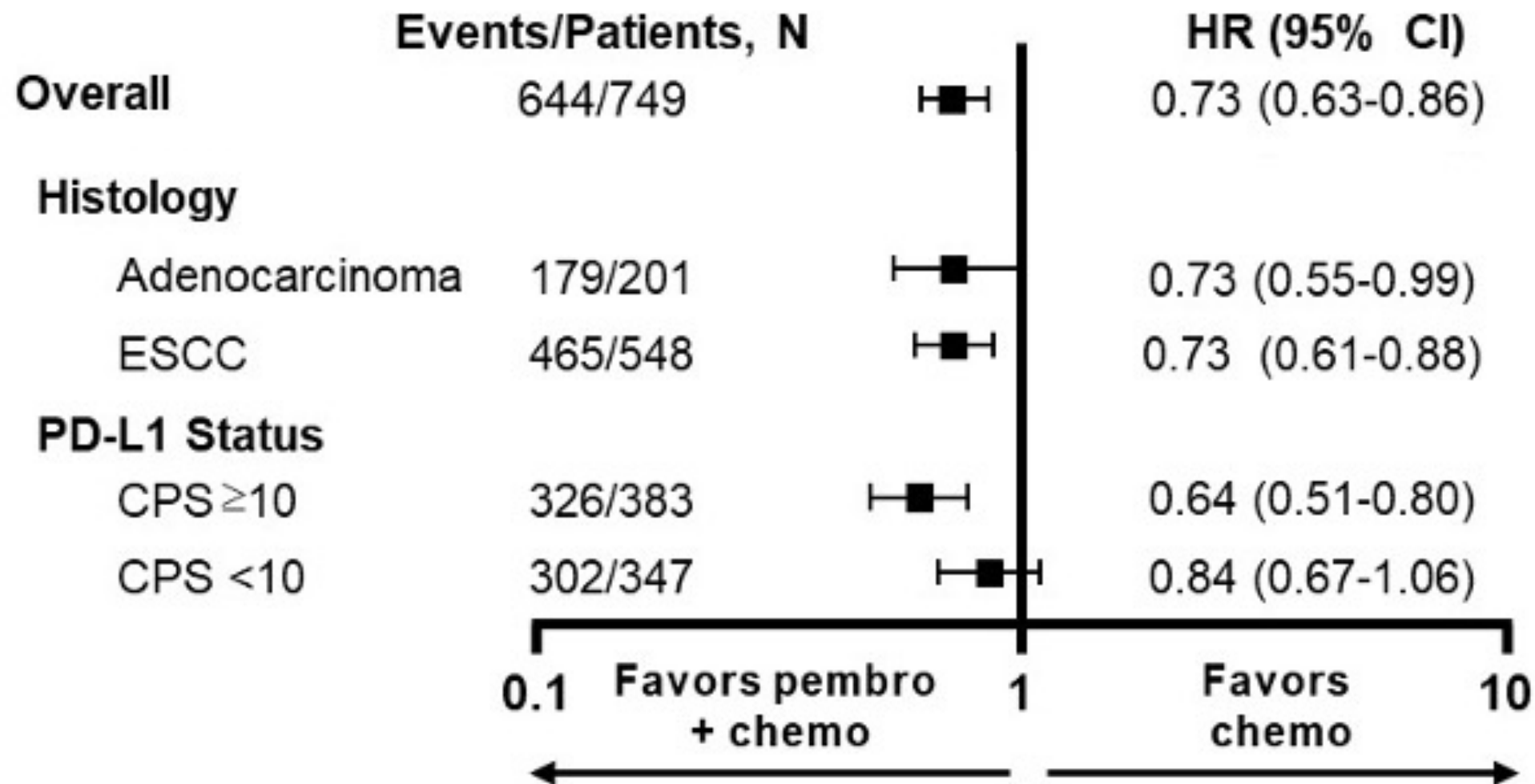
## ESCC



## PD-L1 CPS $\geq 10$



## KEYNOTE-590: Overall Survival in Select Subgroups

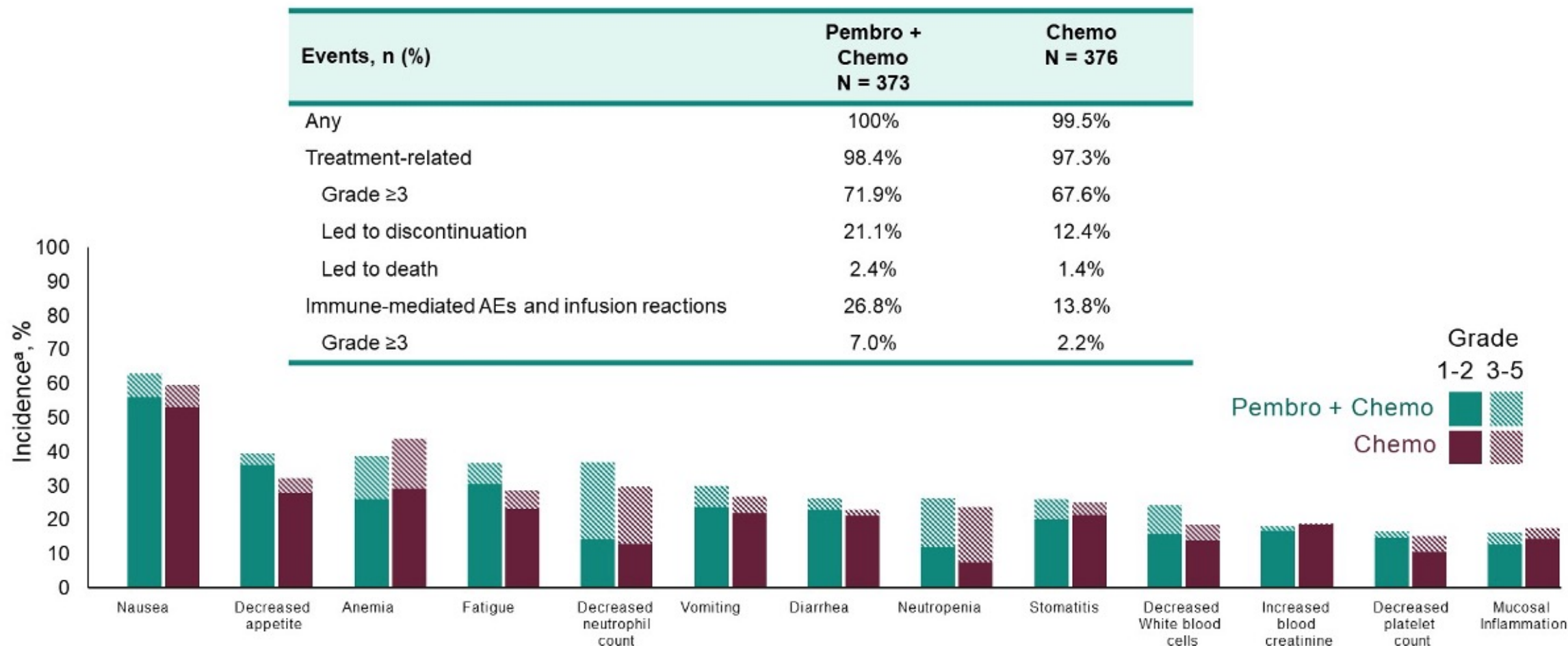




## KEYNOTE-590: Antitumor Response

Best response, n (%)	Pembro + Chemo N = 373	Chemo N = 376
<b>ORR, n (%)</b>	<b>168 (45.0)</b>	<b>110 (29.3)</b>
Complete response	25 (6.7)	9 (2.4)
Partial response	143 (38.3)	101 (26.9)
Stable disease	126 (33.8)	174 (46.3)
Disease control rate	294 (78.8)	284 (75.5)
Progressive disease	43 (11.5)	59 (15.7)
Not evaluable/no assessment	36 (9.6)	33 (8.7)
Median DOR (range), mo	8.3 (1.2+ to 41.7+)	6.0 (1.5+ to 34.9+)
<b>≥ 24 months response duration, %</b>	<b>20.4</b>	<b>6.2</b>

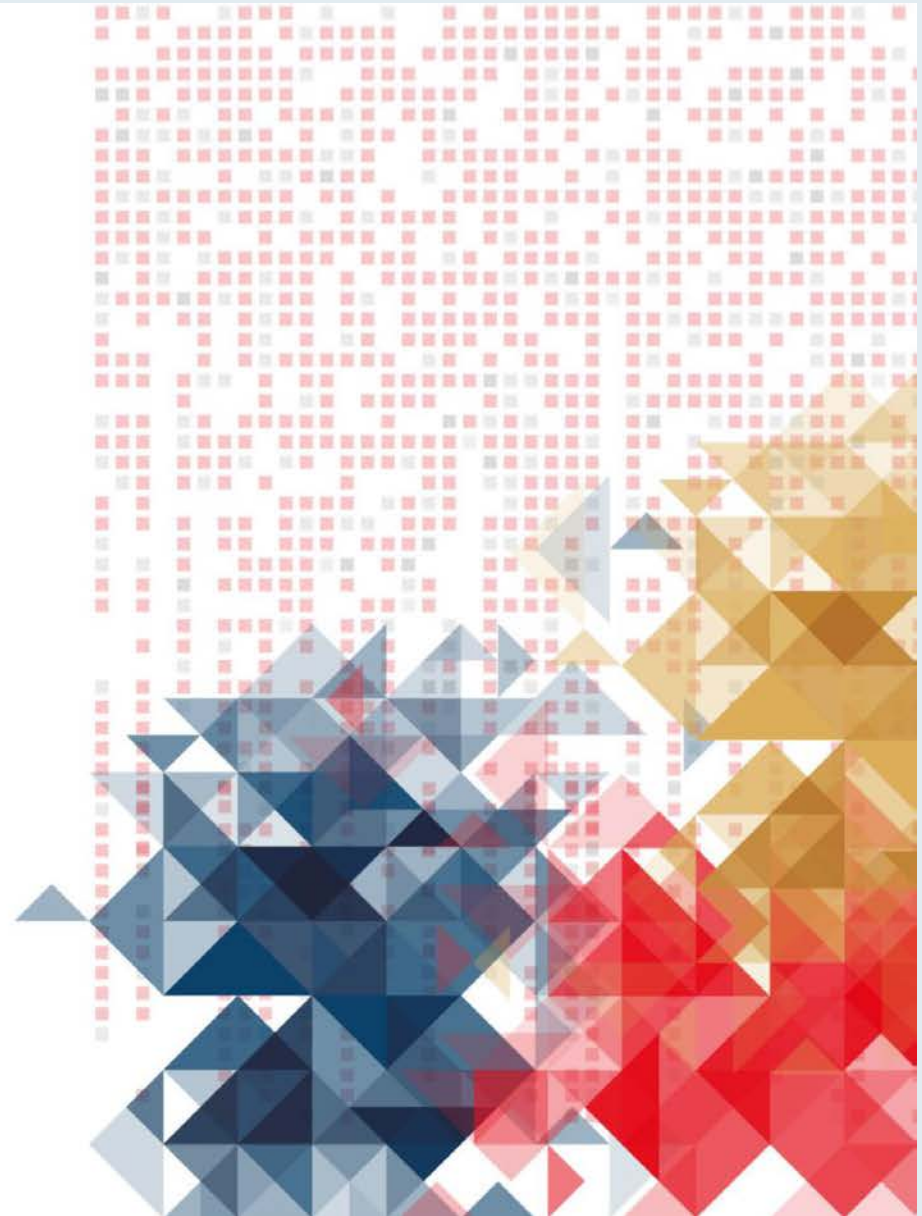
# KEYNOTE-590: Adverse Events Summary



## Sintilimab plus chemotherapy (chemo) versus chemo as the first-line treatment for advanced gastric or gastroesophageal junction (G/GEJ) adenocarcinoma (ORIENT-16)

**Jianming Xu\***, Haiping Jiang, Yueyin Pan, Kangsheng Gu, Sundong Cang, Lei Han, Yongqian Shu, Jiayi Li, Junhui Zhao, Hongming Pan, Suxia Luo, Yanru Qin, Qunyi Guo, Yuxian Bai, Yang Ling, Yingmei Guo, Ziran Li, Ying Liu, Yan Wang, Hui Zhou

\*, presenting author, MD, The Fifth Medical Center, Chinese PLA General Hospital



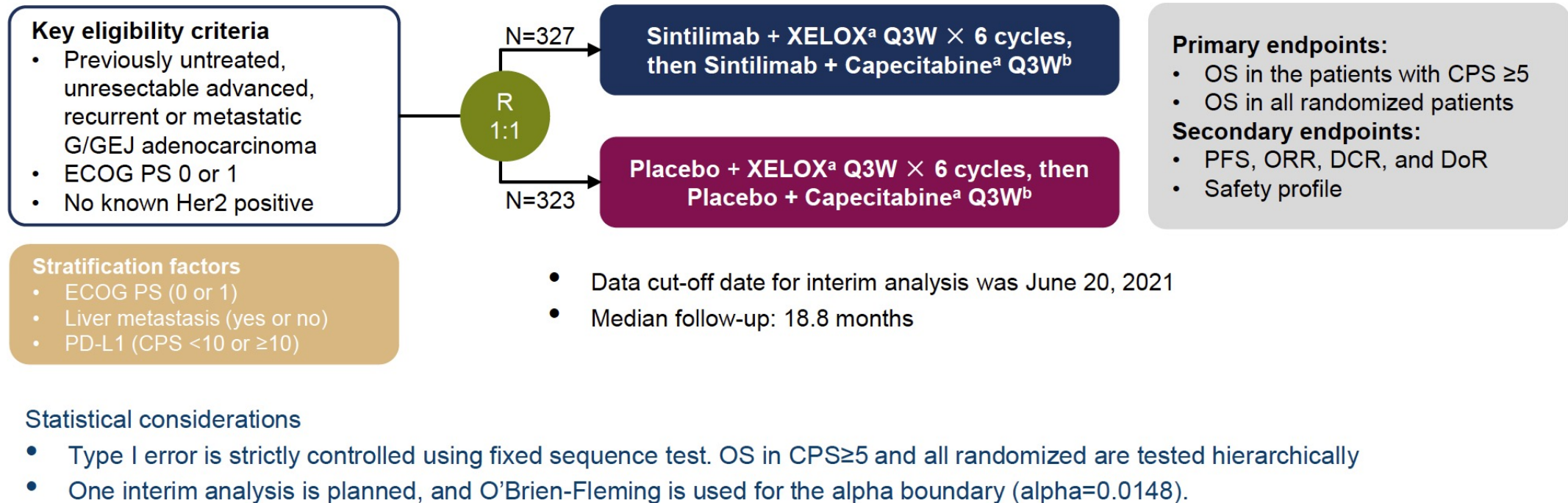


# ORIENT-16: Phase III Trial Design

Sintilimab is a recombinant fully humanized anti-PD-1 monoclonal antibody.

Previous study has shown encouraging anti-tumor activities of Sintilimab plus chemotherapy in 1L G/GEJ cancer.

ORIENT-16<sup>a</sup> is a randomized, double-blind, phase 3 study

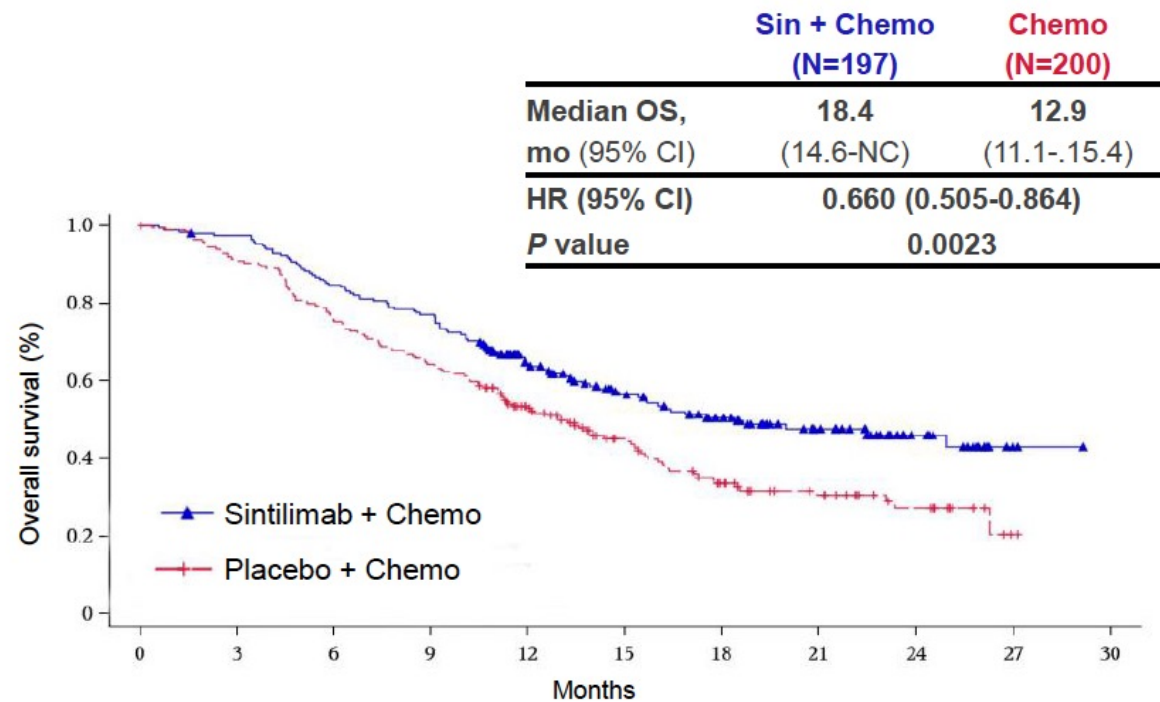


<sup>a</sup> ClinicalTrial.gov number, NCT03745170; <sup>b</sup> Sintilimab 3 mg/kg for body weight <60 kg, 200 mg for ≥60 kg; Oxaliplatin 130 mg/m<sup>2</sup> IV; Capecitabine 1000 mg/m<sup>2</sup> PO Bid d1-14;

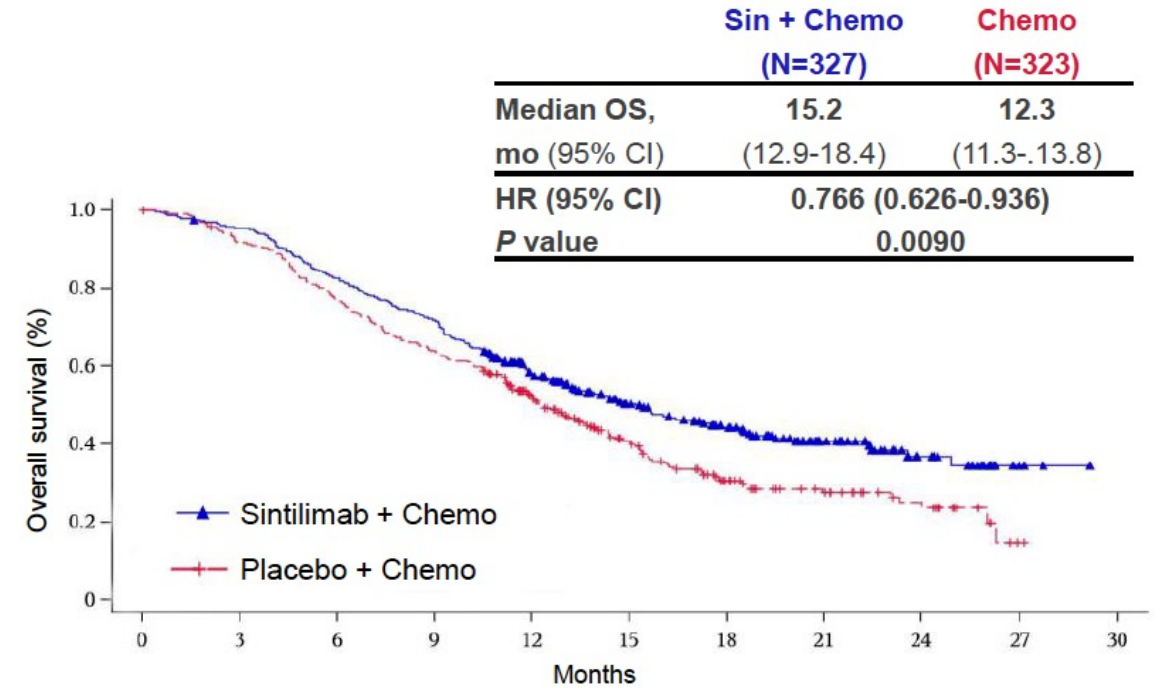
<sup>c</sup> Until progressive disease, intolerable toxicity, withdrawal of consent. Treatment is given for a maximum of 2 years.

# ORIENT-16: Overall Survival (OS) with Sintilimab and Chemotherapy for Advanced Gastric or GEJ Adenocarcinoma

PD-L1 CPS  $\geq 5$



All patients





## Sintilimab plus chemotherapy versus chemotherapy as first-line therapy in patients with advanced or metastatic esophageal squamous cell cancer: First Results of the Phase 3 ORIENT-15 study

Lin Shen<sup>1</sup>, Zhihao Lu<sup>2</sup>, Junye Wang<sup>3</sup>, Yongqian Shu<sup>4</sup>, Li Kong<sup>5</sup>, Lei Yang<sup>6</sup>, Buhai Wang<sup>7</sup>, Zhiwu Wang<sup>8</sup>, Yinghua Ji<sup>9</sup>, Guochun Cao<sup>10</sup>, Hu Liu<sup>11</sup>, Tongjian Cui<sup>12</sup>, Na Li<sup>13</sup>, Wensheng Qiu<sup>14</sup>, Zhuo Ma<sup>15</sup>, Yuling Chen<sup>15</sup>, Haoyu Li<sup>15</sup>, Xing Sun<sup>15</sup>, Yan Wang<sup>15</sup>, Hui Zhou<sup>15</sup>

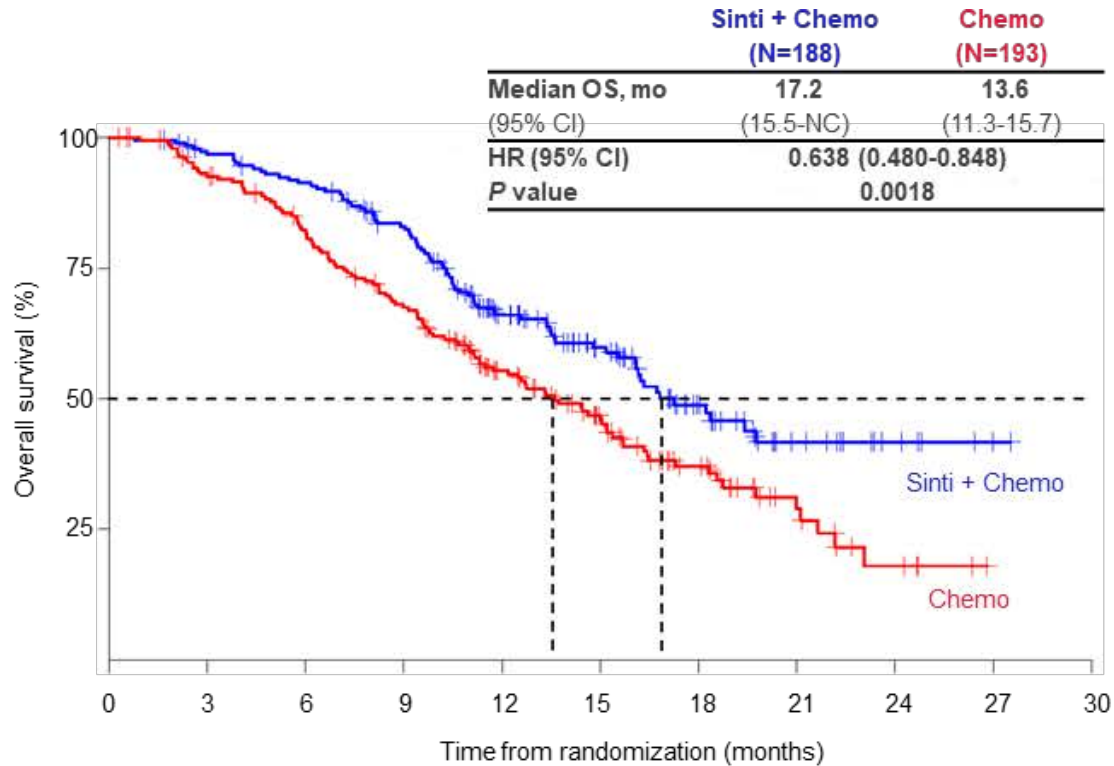
<sup>1</sup>Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education), Peking University Cancer Hospital and Institute, Beijing, China, <sup>2</sup>Department of Gastrointestinal Oncology, Peking University Cancer Hospital & Institute, Beijing, China, <sup>3</sup>Department of Oncology, The Affiliated Hospital of Jining Medical College, Jining, China, <sup>4</sup>Department of Medical Oncology, The First Affiliated Hospital of Nanjing Medical University, Nanjing, China, <sup>5</sup>Special Needs Ward, Shandong Cancer Hospital and Institute, Shandong First Medical University and Shandong Academy of Medical Sciences, Jinan, China, <sup>6</sup>Department of Medical Oncology, Nantong Cancer Hospital, Nantong, China, <sup>7</sup>Department of Medical Oncology, Northern Jiangsu People's Hospital, Affiliated Hospital to Yangzhou University, Yangzhou, China, <sup>8</sup>Department of Radiotherapy and Chemotherapy, Tangshan People Hospital, Tangshan, China, <sup>9</sup>Department of Medical Oncology, The First Affiliated Hospital of Xinxiang Medical University, Xinxiang, China, <sup>10</sup>Department of Oncology, Jiangsu Cancer Hospital, Nanjing Medical University, Nanjing, China, <sup>11</sup>Department of Medical Oncology, Anhui provincial Cancer Hospital, University of Science and Technology of China, Hefei, China, <sup>12</sup>Department of Oncology, Fujian Provincial Hospital, Fuzhou, China, <sup>13</sup>Department of Medical Oncology, Suining Central Hospital, Suining, China, <sup>14</sup>Department of Medical Oncology, The Affiliated Hospital of Qingdao University, Qingdao, China, <sup>15</sup>Medical Oncology, Innovent Biologics, Inc., Suzhou, China, <sup>16</sup>Biostatistics, Innovent Biologics, Inc., Suzhou, China





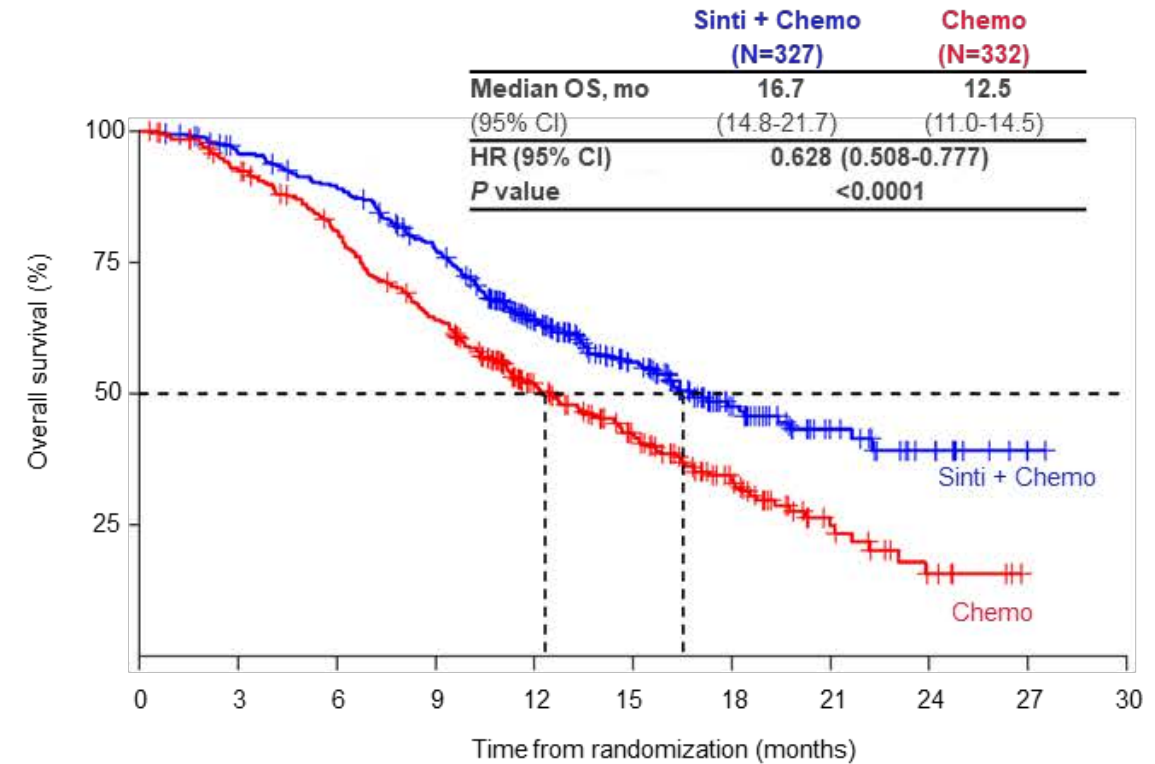
# ORIENT-15: OS with Sintilimab and Chemotherapy for Advanced or Metastatic Esophageal Squamous Cell Cancer

**PD-L1 CPS  $\geq 10$**



No. at risk										
Sinti + Chemo	188	178	167	146	96	65	33	14	6	1
Chemo	193	174	151	122	82	57	31	13	5	0

**All patients**



No. at risk										
Sinti + Chemo	327	305	283	240	161	105	52	25	11	2
Chemo	332	300	258	202	127	88	45	17	6	0



**Cancer Cell** 2022;40(3):277-88.e3

 **CellPress**

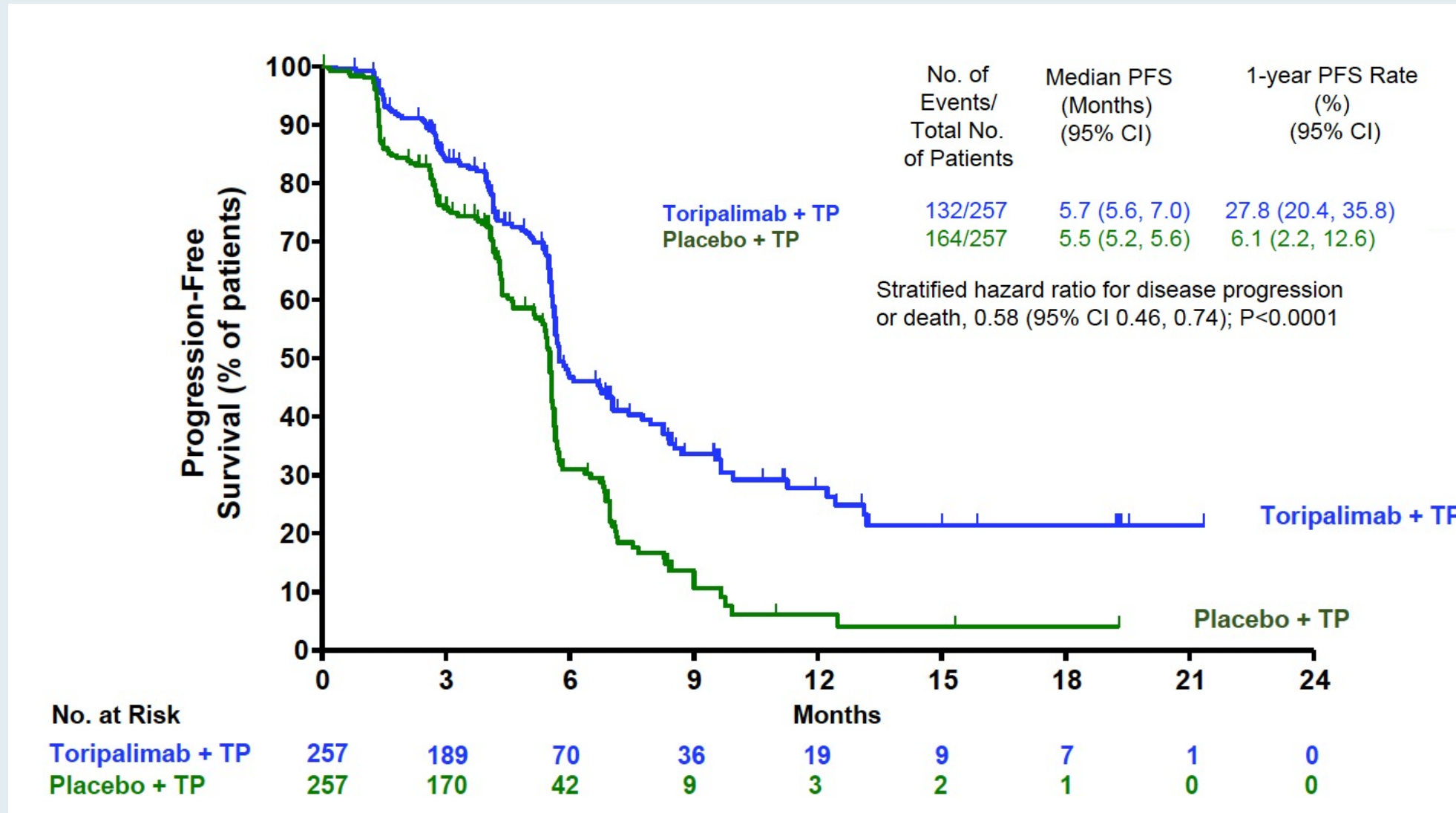


## Article

# **Toripalimab plus chemotherapy in treatment-naïve, advanced esophageal squamous cell carcinoma (JUPITER-06): A multi-center phase 3 trial**

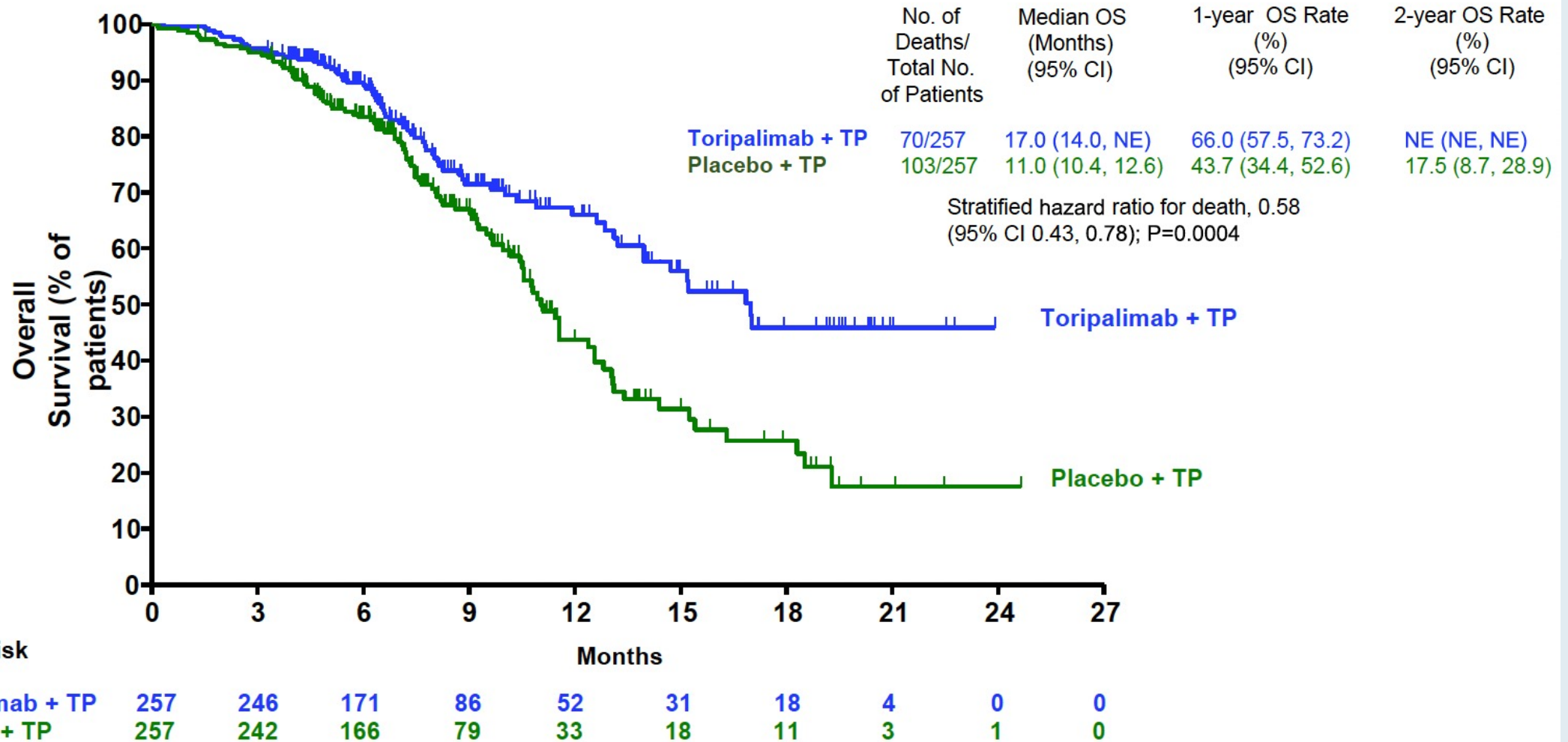
Zi-Xian Wang,<sup>1,2,76</sup> Chengxu Cui,<sup>3,76</sup> Jun Yao,<sup>4,76</sup> Yanqiao Zhang,<sup>5,76</sup> Mengxia Li,<sup>6</sup> Jifeng Feng,<sup>7</sup> Shujun Yang,<sup>8</sup> Yun Fan,<sup>9</sup> Jianhua Shi,<sup>10</sup> Xizhi Zhang,<sup>11</sup> Lin Shen,<sup>12</sup> Yongqian Shu,<sup>13</sup> Cailian Wang,<sup>14</sup> Tianyang Dai,<sup>15</sup> Teng Mao,<sup>16</sup> Long Chen,<sup>17</sup> Zengqing Guo,<sup>18</sup> Bo Liu,<sup>19</sup> Hongming Pan,<sup>20</sup> Shundong Cang,<sup>21</sup> Yi Jiang,<sup>22</sup> Junye Wang,<sup>23</sup> Min Ye,<sup>24</sup> Zhendong Chen,<sup>25</sup> Da Jiang,<sup>26</sup> Qin Lin,<sup>27</sup> Wei Ren,<sup>28</sup> Junsheng Wang,<sup>29</sup> Lin Wu,<sup>30</sup> Yong Xu,<sup>31</sup> Zhanhui Miao,<sup>32</sup> Meili Sun,<sup>33</sup> Conghua Xie,<sup>34</sup> et al

# JUPITER-06: Progression-Free Survival (BICR, ITT Population)



TP = paclitaxel/cisplatin

# JUPITER-06: Overall Survival (ITT Population)





## JUPITER-06: Tumor Response

Variable	Toripalimab + TP (n = 257)	Placebo + TP (n = 257)
Best overall response, no. (%)		
Complete response	30 (11.7)	18 (7.0)
Partial response	148 (57.6)	116 (45.1)
Stable disease	51 (19.8)	77 (30.0)
Progressive disease	18 (7.0)	35 (13.6)
Non-CR/non-PD <sup>a</sup>	1 (0.4)	2 (0.8)
Not evaluable <sup>b</sup>	9 (3.5)	9 (3.5)
Objective response rate (ORR)		
ORR % (95% CI)	69.3 (63.2–74.8)	52.1 (45.8–58.4)
Difference in ORR % (95% CI)	17.2 (9.0–25.4)	
p value <sup>c</sup>	<0.0001	
Disease control rate (DCR)		
DCR % (95% CI)	89.1 (84.6–92.6)	82.1 (76.9–86.6)
Difference in DCR % (95% CI)	7.1 (1.1–13.1)	
p value <sup>c</sup>	0.0206	

## JUPITER-06: Select Treatment-Emergent Adverse Events (TEAEs)

Adverse event, no. of patients (%)	Toripalimab + TP (n = 257) no. (%)		Placebo + TP (n = 257) no. (%)	
	All grades	grade $\geq 3$	all grades	grade $\geq 3$
Any TEAE	255 (99.2)	188 (73.2)	255 (99.2)	180 (70.0)
Anemia	201 (78.2)	28 (10.9)	207 (80.5)	38 (14.8)
Leukopenia	174 (67.7)	52 (20.2)	138 (53.7)	34 (13.2)
Neutropenia	173 (67.3)	109 (42.4)	139 (54.1)	85 (33.1)
Nausea	111 (43.2)	0 (0)	118 (45.9)	5 (1.9)
Fatigue	110 (42.8)	11 (4.3)	101 (39.3)	5 (1.9)
Neuropathy peripheral	104 (40.5)	3 (1.2)	111 (43.2)	10 (3.9)
Vomiting	103 (40.1)	5 (1.9)	94 (36.6)	5 (1.9)
Decreased appetite	101 (39.3)	3 (1.2)	118 (45.9)	5 (1.9)



***Lancet Oncol 2018;19(11):1437-48.***

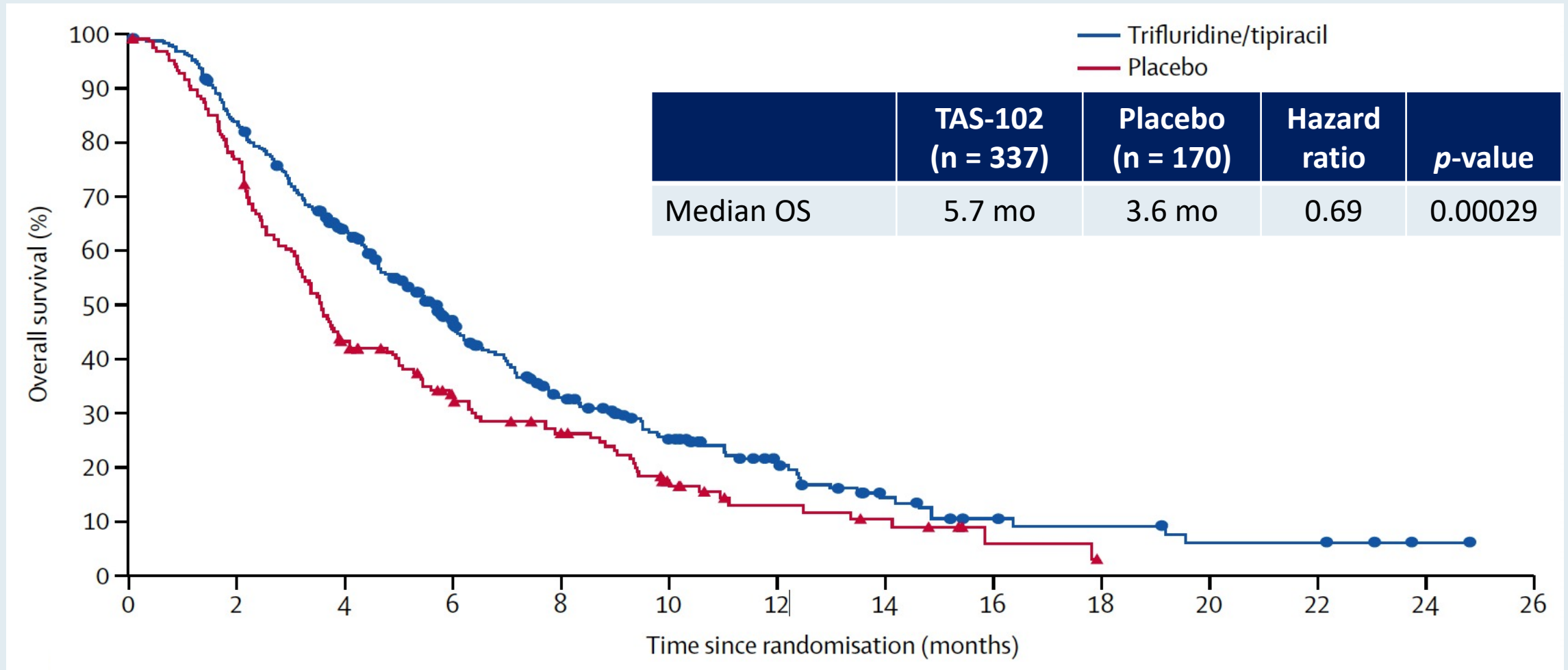
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## **Trifluridine/tipiracil versus placebo in patients with heavily pretreated metastatic gastric cancer (TAGS): a randomised, double-blind, placebo-controlled, phase 3 trial**



*Kohei Shitara, Toshihiko Doi, Mikhail Dvorkin, Wasat Mansoor, Hendrik-Tobias Arkenau, Aliaksandr Prokharau, Maria Alsina, Michele Ghidini, Catia Faustino, Vera Gorbunova, Edvard Zhavrid, Kazuhiro Nishikawa, Ayumu Hosokawa, Şuayib Yalçın, Kazumasa Fujitani, Giordano D Beretta, Eric Van Cutsem, Robert E Winkler, Lukas Makris, David H Ilson, Josep Tabernero*

# TAGS: Overall Survival (Intent-to-Treat Population)

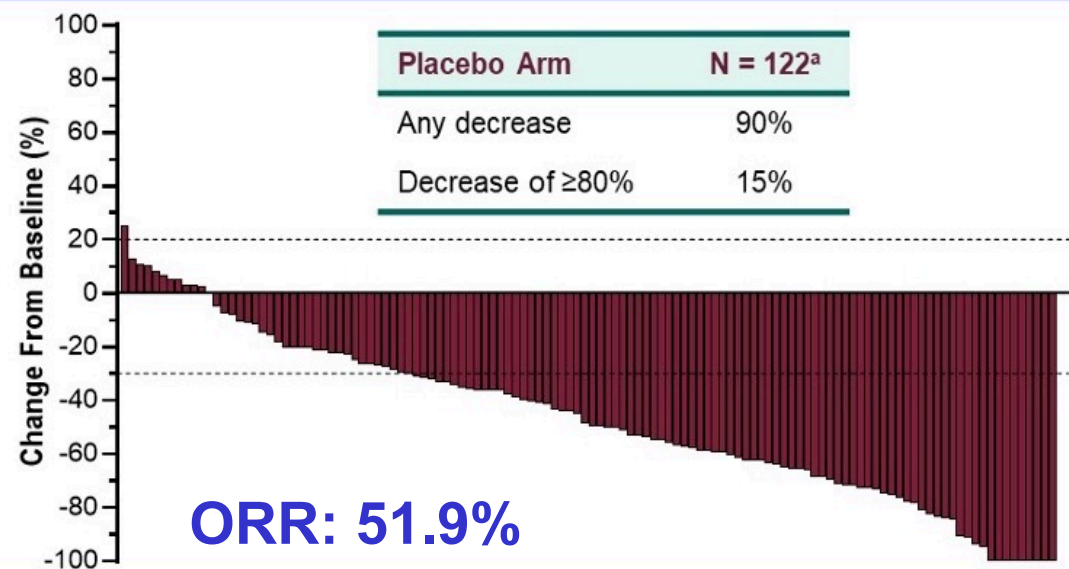
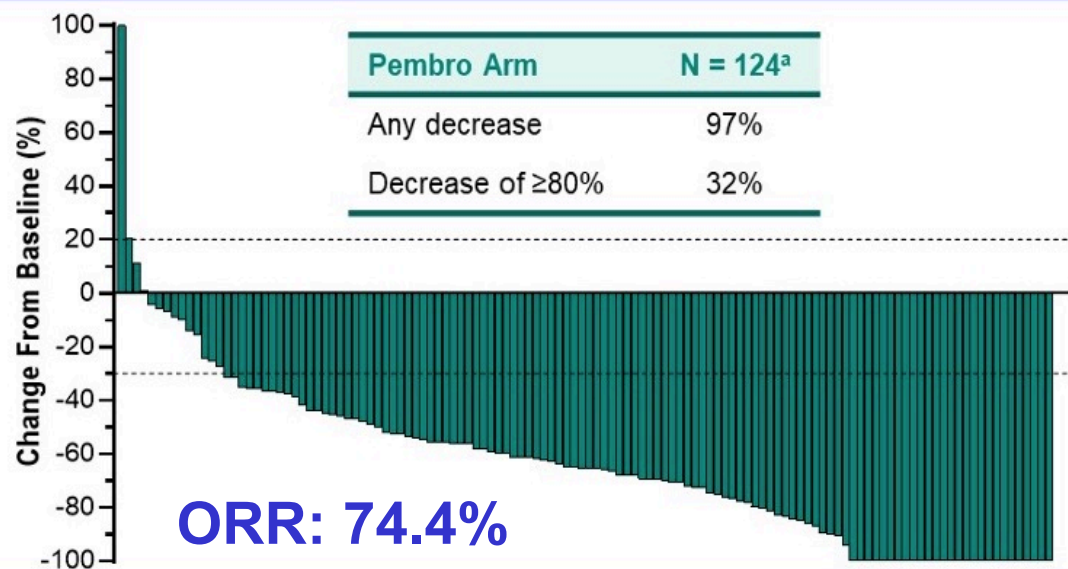


# **Pembrolizumab Plus Trastuzumab and Chemotherapy for HER2+ Metastatic Gastric or Gastroesophageal Junction Cancer: Initial Findings of the Global Phase 3 KEYNOTE-811 Study**

Yelena Y. Janjigian,<sup>1</sup> Akihito Kawazoe,<sup>2</sup> Patricio Yañez,<sup>3</sup> Suxia Luo,<sup>4</sup> Sara Lonardi,<sup>5</sup> Oleksii Kolesnik,<sup>6</sup> Olga Barajas,<sup>7</sup> Yuxian Bai,<sup>8</sup> Lin Shen,<sup>9</sup> Yong Tang,<sup>10</sup> Lucjan S. Wyrwicz,<sup>11</sup> Kohei Shitara,<sup>2</sup> Shukui Qin,<sup>12</sup> Eric Van Cutsem,<sup>13</sup> Josep Tabernero,<sup>14</sup> Lie Li,<sup>15</sup> Chie-Schin Shih,<sup>15</sup> Pooja Bhagia,<sup>15</sup> Hyun Cheol Chung,<sup>16</sup> on behalf of the KEYNOTE-811 Investigators

<sup>1</sup>Memorial Sloan Kettering Cancer Center, New York, NY, USA; <sup>2</sup>National Cancer Center Hospital East, Kashiwa, Japan; <sup>3</sup>Universidad de La Frontera, James Lind Cancer Research Center, Temuco, Chile; <sup>4</sup>Henan Cancer Hospital, the Affiliated Cancer Hospital of Zhengzhou University, Zhengzhou, China; <sup>5</sup>Istituto Oncologico Veneto IOV-IRCCS, Padova, Italy; <sup>6</sup>Medical Center "Oncolife", Zaporizhzhia, Ukraine; <sup>7</sup>Arturo López Pérez Foundation, Santiago, Chile; <sup>8</sup>Harbin Medical University Cancer Hospital, Harbin, China; <sup>9</sup>Key Laboratory of Carcinogenesis and Translational Research (Ministry of Education/Beijing), Peking University Cancer Hospital & Institute, Beijing, China; <sup>10</sup>Cancer Hospital Affiliated to Xinjiang Medical University, Xinjiang, China; <sup>11</sup>Maria Skłodowska-Curie Memorial Cancer Center and Institute of Oncology, Warsaw, Poland; <sup>12</sup>Cancer Center of People's Liberation Army, Nanjing, China; <sup>13</sup>University Hospitals Gasthuisberg and KU Leuven, Leuven, Belgium; <sup>14</sup>Vall d'Hebron Hospital Campus and Institute of Oncology (VHIO), IOB-Quiron, UVic-UCC, Barcelona, Spain; <sup>15</sup>Merck & Co., Inc., Kenilworth, NJ, USA; <sup>16</sup>Yonsei Cancer Center, Yonsei University College of Medicine, Seoul, South Korea

# KEYNOTE-811: Confirmed Response at First Interim Analysis





**ASCO** Gastrointestinal **2022**  
Cancers Symposium

# **Trastuzumab Deruxtecan (T-DXd; DS-8201) in Patients With HER2-Positive Advanced Gastric or Gastroesophageal Junction (GEJ) Adenocarcinoma: Final Overall Survival (OS) Results From a Randomized, Multicenter, Open-Label, Phase 2 Study (DESTINY-Gastric01)**

Kensei Yamaguchi

The Cancer Institute Hospital of JFCR, Tokyo, Japan

ON BEHALF OF THE DESTINY-GASTRIC01 INVESTIGATORS

*Additional authors:* Yung-Jue Bang, Satoru Iwasa, Naotoshi Sugimoto, Min-Hee Ryu, Daisuke Sakai, Hyun Cheol Chung, Hisato Kawakami, Hiroshi Yabusaki, Jeeyun Lee, Kaku Saito, Yoshinori Kawaguchi, Takahiro Kamio, Akihito Kojima, Masahiro Sugihara, Kohei Shitara

**ASCO** Gastrointestinal  
Cancers Symposium

#GI22

PRESENTED BY: Kensei Yamaguchi, MD

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CLINICAL ONCOLOGY  
KNOWLEDGE CONQUERS CANCER

**RTP**  
RESEARCH  
TO PRACTICE

# DESTINY-Gastric01: Exploratory Biomarker Analysis of OS in HER2-Positive or HER2-Low Advanced Gastric or GEJ Cancer

Exploratory biomarker in primary HER2-positive cohort	Median OS
Plasma HER2 amplification	
Not amplified	12.1 mo
Amplified	13.0 mo
Plasma HER2 copy number*	
Above 6.0	21.2 mo
Below 6.0	12.0 mo
Exploratory biomarker in exploratory HER2-low cohort	
Plasma HER2 extracellular domain <sup>†</sup>	
Above 11.6 ng/mL	10.1 mo
Below 11.6 ng/mL	4.3 mo

\* An exploratory cutoff (copy number = 6.0) value was determined, which minimized *p*-value, estimated by log-rank test. Below 6.0 includes patients without amplification; <sup>†</sup> An exploratory cutoff value of 11.6 ng/mL in exploratory cohorts was determined, which minimized *p*-value, estimated by log-rank test.

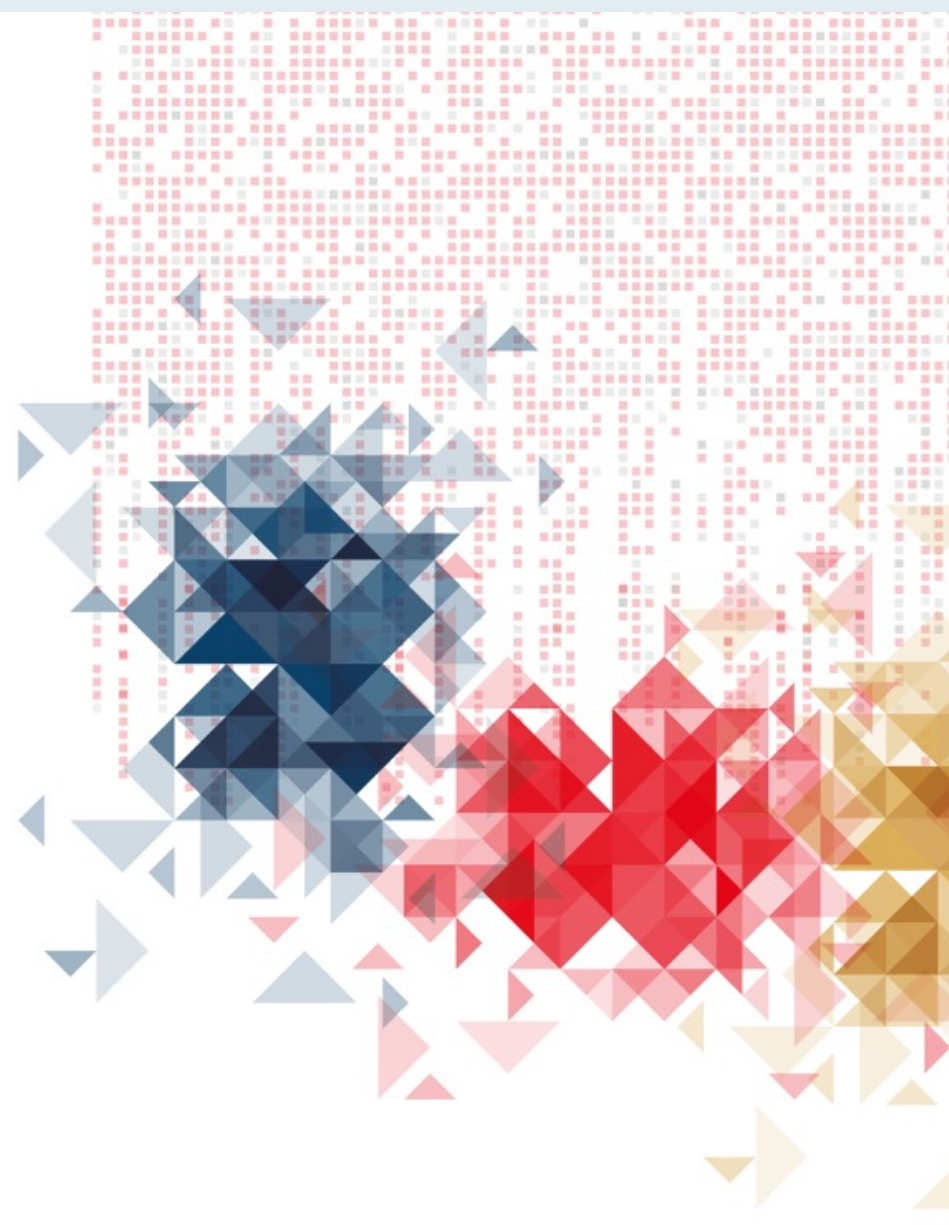


## Primary Analysis of a Phase 2 Single-Arm Trial of Trastuzumab Deruxtecan (T-DXd) in Western Patients With HER2-Positive (HER2+) Unresectable or Metastatic Gastric or Gastroesophageal Junction (GEJ) Cancer Who Progressed on or After a Trastuzumab-containing Regimen

**Eric Van Cutsem, MD<sup>a</sup>**, Maria di Bartolomeo, Elizabeth Smyth, Ian Chau, Haeseong Park, Salvatore Siena, Sara Lonardi, Zev A. Wainberg, Jaffer Ajani, Joseph Chao, Javed Seraj, Yoshinori Kawaguchi, Amy Qin, Jasmeet Singh, Gerold Meinhardt, Geoffrey Ku

On behalf of the DESTINY-Gastric02 investigators

<sup>a</sup>University Hospital Gasthuisberg, Leuven and KU Leuven, Leuven, Belgium



# DESTINY-Gastric02 Phase II Study Design

## Key eligibility criteria

- Pathologically documented, unresectable or metastatic gastric or GEJ cancer
- Centrally confirmed HER2 positive disease (defined as IHC 3+ or IHC 2+/ISH+) on biopsy after progression on first-line trastuzumab-containing regimen
- ECOG PS 0 or 1

**T-DXd**  
**6.4 mg/kg Q3W**  
**N = 79<sup>a</sup>**

## Primary endpoint

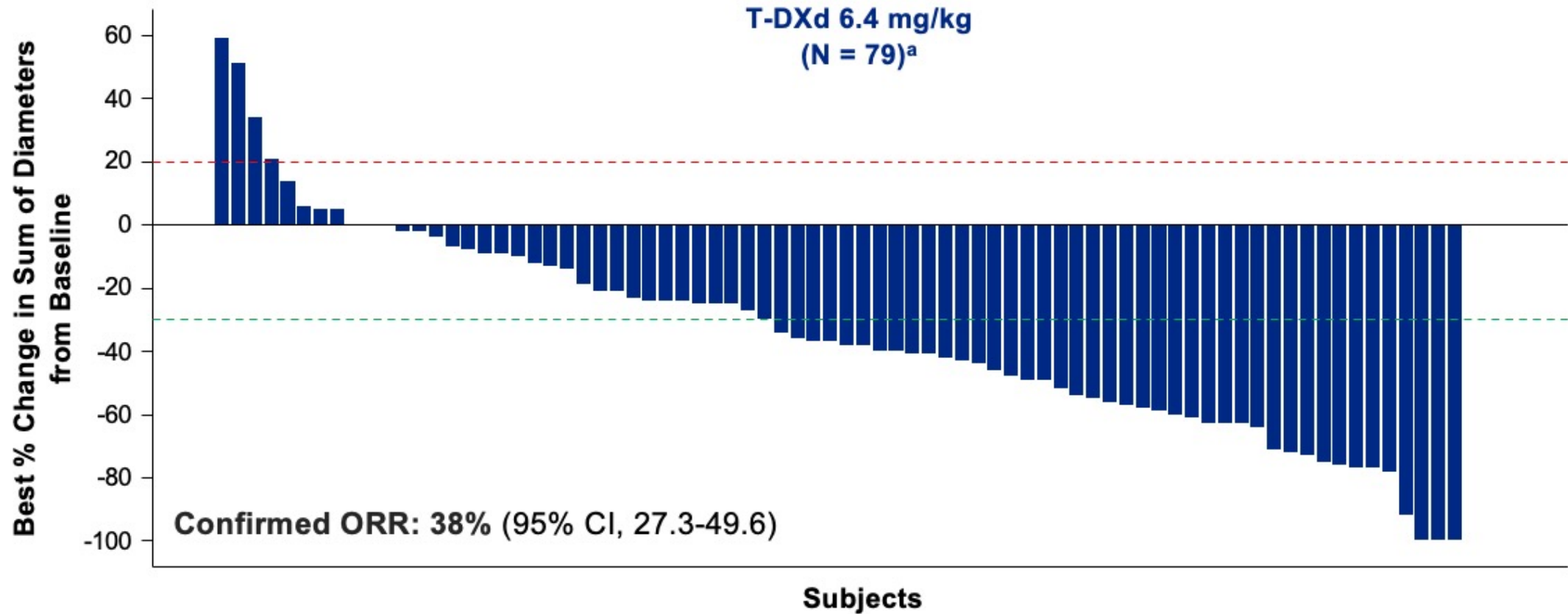
- Confirmed ORR by ICR

## Secondary endpoints<sup>b</sup>

- PFS by ICR
- OS
- DOR by ICR
- Safety and tolerability

- DESTINY-Gastric02 is the first study focused only on second-line T-DXd monotherapy in Western patients with HER2+ gastric/GEJ cancer who have progressed on a trastuzumab-containing regimen
  - It is the follow-on study to DESTINY-Gastric01, which evaluated T-DXd third-line or later in Asian patients<sup>1</sup>
- Patients were enrolled in Europe (Belgium, Great Britain, Italy, Spain) and the United States (data cutoff: April 9, 2021)

# DESTINY-Gastric02: Best Percent Change of Tumor Size from Baseline



ORR = objective response rate



# DESTINY-Gastric02: Safety Summary

n (%)	Patients (N = 79)
Any drug-related TEAE	74 (93.7)
Drug-related TEAE Grade $\geq 3$	21 (26.6)
Serious drug-related TEAE	8 (10.1)
Drug-related TEAE associated with discontinuation	7 (8.9)
Drug-related TEAE associated with dose reduction	15 (19.0)
Drug-related TEAE associated with an outcome of death	1 (1.3)

- Median treatment duration was 4.3 months (range, 0.7-15.9 months)
- The most common drug-related TEAEs associated with treatment discontinuation were investigator-reported pneumonitis (3.8%) and ILD (2.5%)
- The most common drug-related TEAEs associated with dose reduction were nausea (7.6%) and decreased neutrophil count (5.1%)

TEAE = treatment-emergent adverse event

# DESTINY-Gastric02: Treatment-Emergent Adverse Events (TEAEs)

n (%)	Patients (N = 79)	
	Any Grade	Grade ≥3
<b>Patients with ≥1 drug-related TEAEs</b>	74 (93.7)	21 (26.6)
<b>Drug-related TEAEs with ≥15% incidence in all patients</b>		
Nausea	46 (58.2)	3 (3.8)
Fatigue	29 (36.7)	3 (3.8)
Vomiting	26 (32.9)	1 (1.3)
Diarrhea	22 (27.8)	1 (1.3)
Decreased appetite	18 (22.8)	1 (1.3)
Alopecia	17 (21.5)	0
Anemia	15 (19.0)	6 (7.6)
Decreased platelet count	13 (16.5)	1 (1.3)
Decreased neutrophil count	12 (15.2)	6 (7.6)



## DESTINY-Gastric02: Adjudicated Drug-Related Interstitial Lung Disease (ILD)/Pneumonitis

	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Any Grade
n (%)	2 (2.5)	3 (3.8)	0	0	1 (1.3)	6 (7.6)

- Median time to onset of adjudicated drug-related ILD/pneumonitis was 80.5 days (range, 53-85 days), with a median duration of 38.0 days (range, 15-142 days)
- 83% of adjudicated drug-related ILD/pneumonitis cases were low grade (Grade 1-2)

# **Clinical Investigator Perspectives on the Management of Renal Cell Carcinoma**

**Thursday, May 19, 2022**

**5:00 PM – 6:00 PM ET**

## **Faculty**

**Thomas E Hutson, DO, PharmD**

**Brian I Rini, MD**

## **Moderator**

**Neil Love, MD**

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

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