Inside the Issue: Integrating HER2-Targeted Strategies into the Management of Gastrointestinal Cancers

A CME/MOC-Accredited Live Webinar

Wednesday, August 21, 2024 5:00 PM – 6:00 PM ET

Faculty

Tanios Bekaii-Saab, MD
John Strickler, MD

Moderator Neil Love, MD



Faculty



Tanios Bekaii-Saab, MD
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College of Medicine and Science
Program Leader, Gastrointestinal Cancer
Mayo Clinic Cancer Center
Consultant, Mayo Clinic in Arizona
Chair, ACCRU Research Consortium
Phoenix, Arizona



MODERATOR
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Research To Practice
Miami, Florida



John Strickler, MD
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Associate Director, Clinical Research – GI
Co-Leader, Molecular Tumor Board
Duke University
Durham, North Carolina



Survey Participants



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Consultant
New York, New York



Christopher Lieu, MD
Professor of Medicine
Associate Director for Clinical Research
Co-Director, GI Medical Oncology
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Aurora, Colorado



Philip A Philip, MD, PhD, FRCP
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Leader, GI and Neuroendocrine Oncology
Henry Ford Cancer Institute
Wayne State University
Detroit, Michigan



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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, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma, a Sobi Company, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Geron Corporation, Gilead Sciences Inc, Grail Inc, GSK, 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, Kronos Bio Inc, Legend Biotech, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Mural Oncology 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, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Syndax Pharmaceuticals, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

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Dr Bekaii-Saab — Disclosures Faculty

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Data and Safety Monitoring Boards/Committees	1Globe Health Institute, AstraZeneca Pharmaceuticals LP, Eisai Inc, Exelixis Inc, FibroGen Inc, Merck, Suzhou Kintor
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Scientific Advisory Boards	Artiva Biotherapeutics Inc, Immuneering Corporation, Imugene, Panbela Therapeutics Inc, Replimune, Xilis
Nonrelevant Financial Relationships	MJH Life Sciences, Pancreatic Cancer Action Network, The Valley Hospital, UptoDate



Dr Strickler — Disclosures Faculty

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Data and Safety Monitoring Boards/Committees	AbbVie Inc, Astellas, BeiGene Ltd, GSK, Pfizer Inc
Stock Options — Private Company	Triumvira Immunologics



Dr Ciombor — Disclosures Survey Participant

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Dr Lieu — Disclosures Survey Participant

No relevant conflicts of interest to disclose.



Dr Mehta — Disclosures Survey Participant

Advisory Committees	Astellas, BostonGene, Bristol Myers Squibb, Eisai Inc, Guardant Health, Lilly, Merck, Natera Inc, Novartis, Seagen Inc
Consulting Agreement	Lilly
Data and Safety Monitoring Board/Committee	Arcus Biosciences



Dr Philip — Disclosures Survey Participant

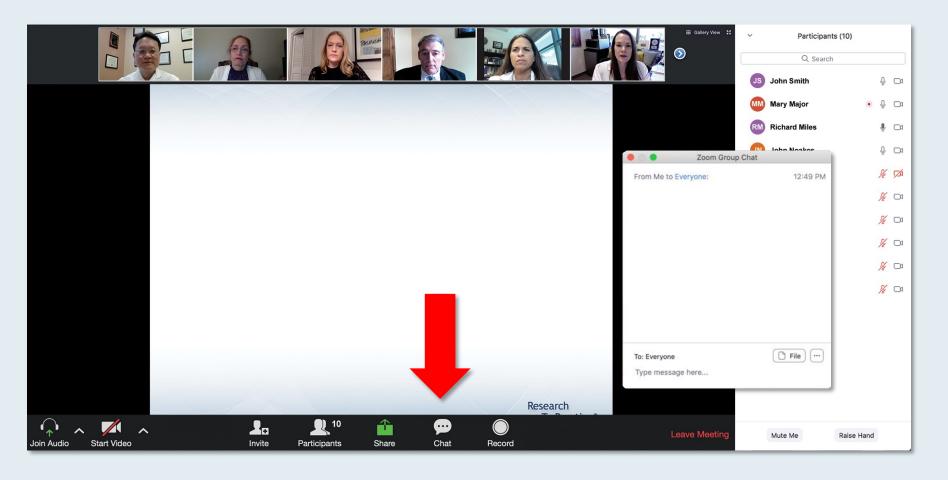
Advisory Committees	Agenus Inc, Ipsen Biopharmaceuticals Inc, Merus, Novocure Inc
Consulting Agreement	Novocure Inc
Contracted Research	BioNTech SE, Cornerstone Pharmaceuticals Inc, Taiho Oncology Inc, Totus Medicines Inc
Data and Safety Monitoring Board/Committee	Cyclacel Pharmaceuticals Inc
Speakers Bureaus	Astellas, Incyte Corporation



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We Encourage Clinicians in Practice to Submit Questions

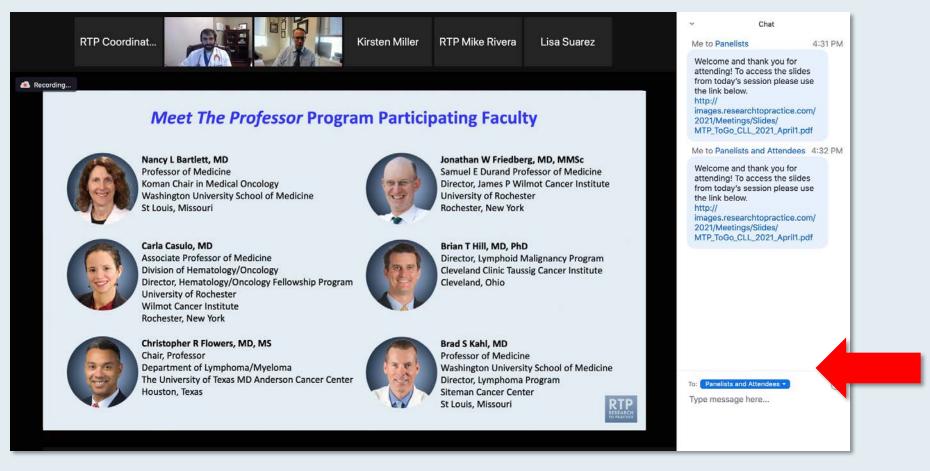


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Familiarizing Yourself with the Zoom Interface

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



Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys







ONCOLOGY TODAY

WITH DR NEIL LOVE

Role of HER2-Directed Therapy in the Treatment of HER2-Expressing Gastrointestinal Cancers — Part 2 of a Special 3-Part Edition



DR KANWAL RAGHAV

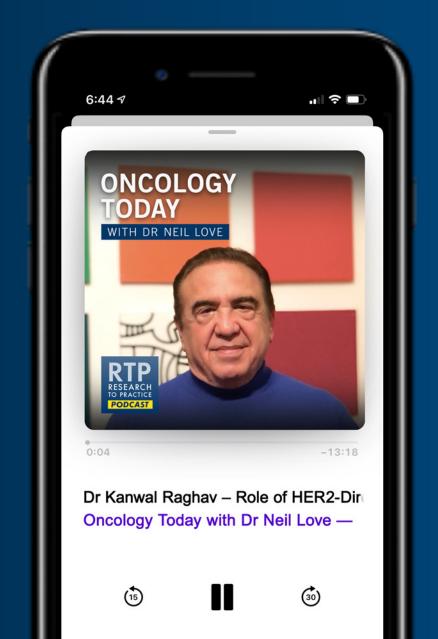
THE UNIVERSITY OF TEXAS

MD ANDERSON CANCER CENTER









Inside the Issue: Optimizing the Diagnosis and Treatment of Neuroendocrine Tumors

A CME/MOC-Accredited Live Webinar

Thursday, August 29, 2024 5:00 PM - 6:00 PM ET

Faculty

Pamela Kunz, MD Simron Singh, MD, MPH

Moderator Neil Love, MD



Data + Perspectives: Clinical Investigators Discuss the Role of CAR T-Cell Therapy for Patients with Non-Hodgkin Lymphoma and Chronic Lymphocytic Leukemia

Part 1 of a 2-Part CME Satellite Symposium Series During the Society of Hematologic Oncology 2024 Annual Meeting

Wednesday, September 4, 2024 11:46 AM – 12:46 PM CT

Faculty

Joshua Brody, MD Jason Westin, MD, MS

Moderator Matthew Lunning, DO



Data + Perspectives: Clinical Investigators Discuss the Current and Future Management of Diffuse Large B-Cell Lymphoma

Part 2 of a 2-Part CME Satellite Symposium Series During the Society of Hematologic Oncology 2024 Annual Meeting

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Faculty

Grzegorz S Nowakowski, MD Laurie H Sehn, MD, MPH

Moderator
Christopher R Flowers, MD, MS



Meet The Professor: Optimizing the Management of Chronic Lymphocytic Leukemia

A CME/MOC-Accredited Live Webinar

Tuesday, September 17, 2024 5:00 PM - 6:00 PM ET

Faculty
Matthew S Davids, MD, MMSc

Moderator Neil Love, MD



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Hematologic Cancers

A CME Hybrid Friday Satellite Symposium Series Preceding the 66th ASH Annual Meeting and Exposition

Friday, December 6, 2024

Chronic Myeloid Leukemia 7:30 AM – 9:00 AM PT Chronic Lymphocytic Leukemia 7:30 AM – 9:30 AM PT

CAR T-Cell Therapy 11:30 AM – 1:30 PM PT Myelofibrosis 11:30 AM – 1:30 PM PT

Acute Myeloid Leukemia 3:15 PM – 5:15 PM PT Multiple Myeloma 3:15 PM - 5:15 PM PT



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Chronic Myeloid Leukemia

A CME Friday Satellite Symposium and Webcast Preceding the 66th ASH Annual Meeting

Friday, December 6, 2024 7:30 AM – 9:00 AM PT (10:30 AM – 12:00 PM ET)

Faculty

Andreas Hochhaus, MD
B Douglas Smith, MD

Moderator Michael J Mauro, MD



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Chronic Lymphocytic Leukemia

A CME Friday Satellite Symposium and Webcast Preceding the 66th ASH Annual Meeting

Friday, December 6, 2024 7:30 AM – 9:30 AM PT (10:30 AM – 12:30 PM ET)

Faculty

Farrukh T Awan, MD, MS, MBA Bita Fakhri, MD, MPH

Kerry A Rogers, MD William G Wierda, MD, PhD

Moderator Jeff Sharman, MD



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Use of CAR T-Cell Therapy and Bispecific Antibodies in the Management of Lymphoma

A CME Friday Satellite Symposium and Webcast Preceding the 66th ASH Annual Meeting

Friday, December 6, 2024 11:30 AM – 1:30 PM PT (2:30 PM – 4:30 PM ET)

Faculty

Jennifer Crombie, MD Martin Hutchings, MD, PhD Matthew Lunning, DO Tycel Phillips, MD

Moderator
Jeremy S Abramson, MD, MMSc



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Myelofibrosis

A CME Friday Satellite Symposium and Webcast Preceding the 66th ASH Annual Meeting

Friday, December 6, 2024 11:30 AM – 1:30 PM PT (2:30 PM – 4:30 PM ET)

Faculty

Prithviraj Bose, MD
Abdulraheem Yacoub, MD
Additional faculty to be announced.

Moderator Andrew T Kuykendall, MD



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Acute Myeloid Leukemia

A CME Friday Satellite Symposium and Webcast Preceding the 66th ASH Annual Meeting

Friday, December 6, 2024 3:15 PM – 5:15 PM PT (6:15 PM – 8:15 PM ET)

Faculty

Alexander Perl, MD Richard M Stone, MD Eunice S Wang, MD Andrew H Wei, MBBS, PhD

Moderator Eytan M Stein, MD



What Clinicians Want to Know: Addressing Current Questions and Controversies in the Management of Multiple Myeloma

A CME Friday Satellite Symposium and Webcast Preceding the 66th ASH Annual Meeting

Friday, December 6, 2024 3:15 PM – 5:15 PM PT (6:15 PM – 8:15 PM ET)

Faculty

Professor Philippe Moreau, MD Robert Z Orlowski, MD, PhD Noopur Raje, MD Paul G Richardson, MD

Moderator Sagar Lonial, MD



Thank you for joining us!

Information on how to obtain CME, ABIM MOC and ABS credit will be provided at the conclusion of the activity in the Zoom chat room. Attendees will also receive an email in 1 to 3 business days with these instructions.



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Consultant
New York, New York



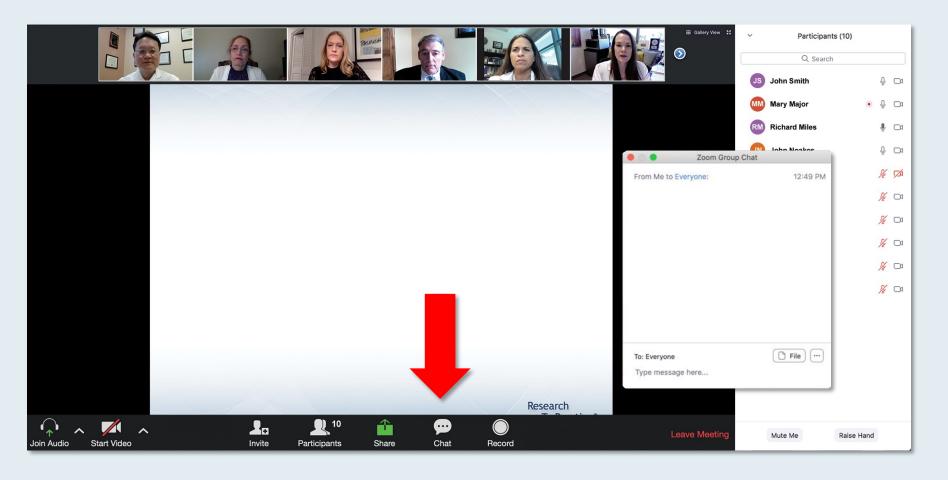
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Associate Director for Clinical Research
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University of Colorado Cancer Center
Aurora, Colorado



Philip A Philip, MD, PhD, FRCP
Professor of Oncology and Pharmacology
Leader, GI and Neuroendocrine Oncology
Henry Ford Cancer Institute
Wayne State University
Detroit, Michigan



We Encourage Clinicians in Practice to Submit Questions



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



Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys







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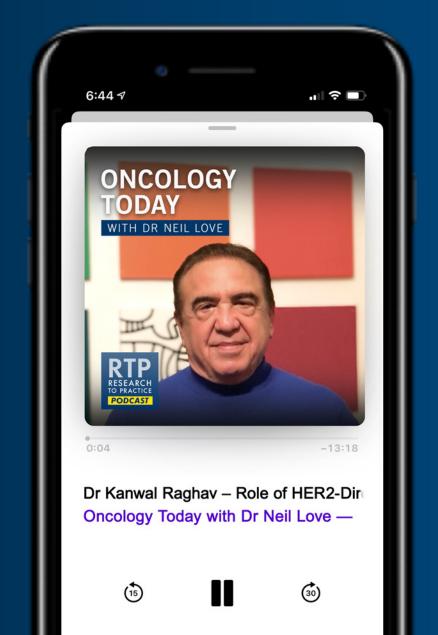
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Dr Ciombor — Disclosures Survey Participant

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Dr Lieu — Disclosures Survey Participant

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HER2-Targeted Strategies for HER2+ Gastroesophageal and Colorectal Cancer

John H. Strickler, MD Professor of Medicine Duke University Medical Center

August 20, 2024

Dukeuniversity





Emerging Role of HER2-Targeted Therapy in Advanced Biliary Tract Cancers (BTCs)

Tanios Bekaii-Saab, MD

David F. and Margaret T. Grohne Professor of Novel Therapeutics for Cancer Research I
Chair and Consultant, Division of Hematology and Medical Oncology
Professor, Mayo Clinic College of Medicine and Science
Mayo Clinic in Arizona





Agenda

Introduction: Back to School Special

Module 1: Biomarker Assays in Advanced Gastrointestinal (GI) Cancers

Module 2: Sequencing of Treatment for HER2-Positive GI Cancers

- Colorectal Cancer
- Gastroesophageal Cancer
- Biliary Tract Cancer

Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers





Agenda

Introduction: Back to School Special

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Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers





How many of your family (children, grandchildren, nieces, nephews, other loved ones) have returned or are about to return to school at any level (PreK-12 and beyond)?

What are the ages and grade levels of your family members who are returning to school?





JESSICA MITCHELL, APRN, CNP, MPH MAYO CLINIC COLLEGE OF MEDICINE AND SCIENCE ROCHESTER, MINNESOTA

INCLUDING CHILDREN IN THE CANCER JOURNEY
OF THEIR PARENT



Agenda

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Module 1: Biomarker Assays in Advanced Gastrointestinal (GI) Cancers

Module 2: Sequencing of Treatment for HER2-Positive GI Cancers

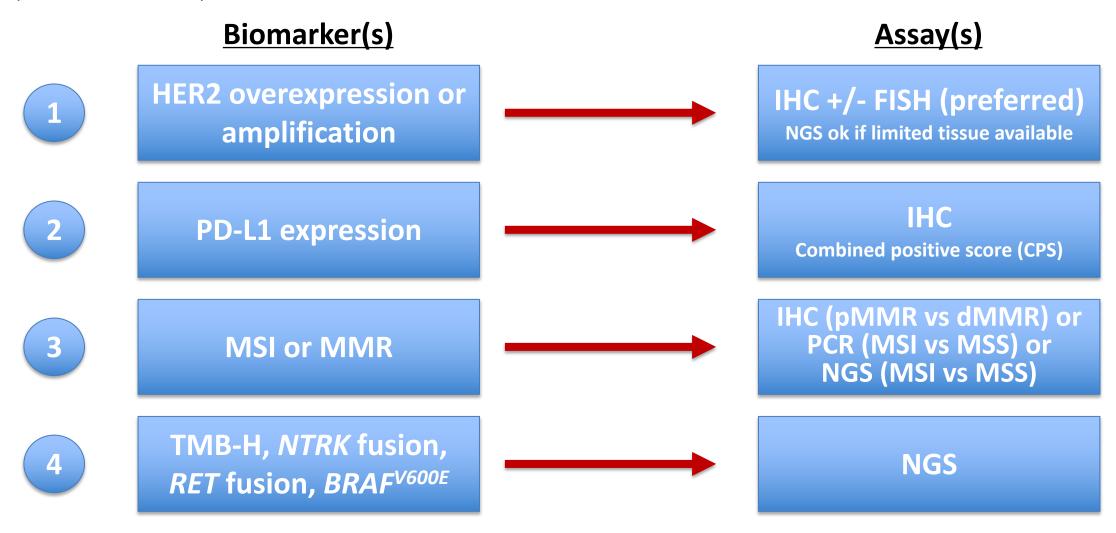
- Colorectal Cancer
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- Biliary Tract Cancer

Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers



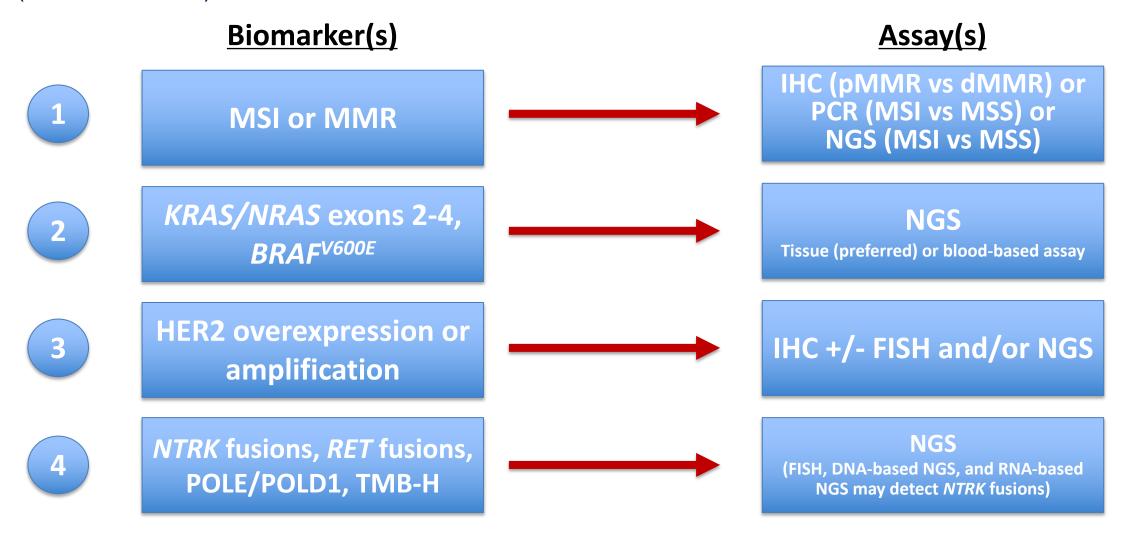
Biomarkers for metastatic gastric/gastroesophageal cancer (NCCN v3.2024)



Other tests to consider: Blood NGS "liquid biopsy," germline testing, tumor EBV, claudin 18.2, WES/ WTS

Biomarkers for metastatic colon cancer

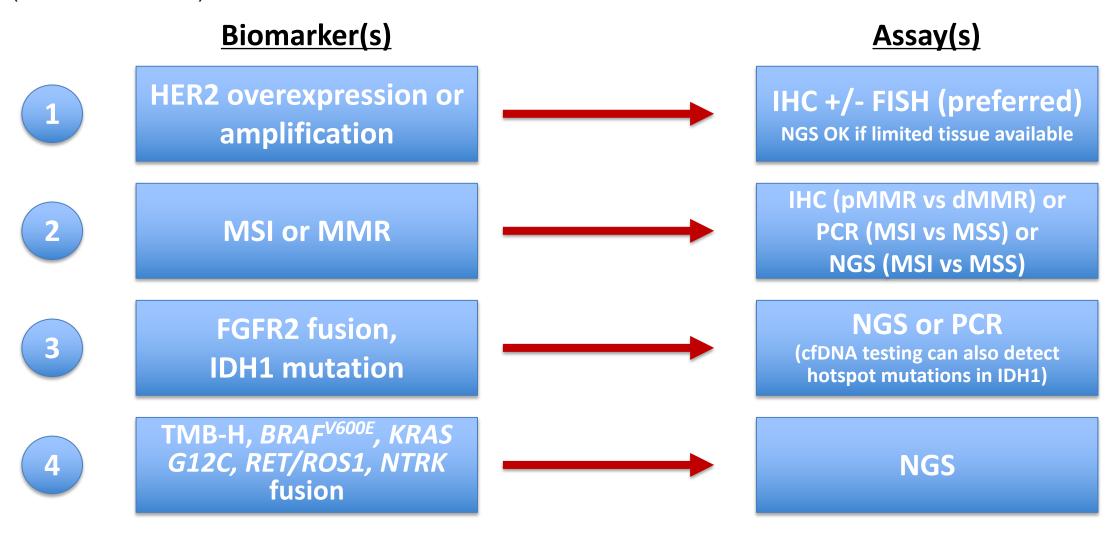
(NCCN v4.2024)



Other tests to consider: Blood NGS after progression on targeted therapy, germline testing, RNA seq, WES/WTS

Biomarkers for metastatic biliary tract cancers

(NCCN v3.2024)



In general, what is your threshold for HER2 amplification to initiate anti-HER2 treatment?

	Colorectal cancer	Gastroesophageal cancer	Biliary tract cancers
Dr Bekaii-Saab	HER2/CEP17 ratio ≥2.0 or HER2 copy number ≥6	HER2/CEP17 ratio ≥2.0 or HER2 copy number ≥6	HER2/CEP17 ratio ≥2.0 or HER2 copy number ≥6
Dr Strickler	Amplified by NGS	IHC 3+ or IHC 2+/FISH amplified	IHC 3+ or amplified by NGS
Dr Ciombor	IHC 3+, IHC 2+/FISH or ERBB2 amplified	IHC 3+, IHC 2+/FISH or ERBB2 amplified	IHC 3+, IHC 2+/FISH or ERBB2 amplified
Dr Lieu	IHC 3+ or IHC 2+/FISH amplified	IHC 3+ or IHC 2+/FISH amplified	IHC 3+ or IHC 2+/FISH amplified
Dr Mehta	2+	2+	Copy number ≥4 with liquid biopsy
Dr Philip	>2	>2	>2

Does RAS status (KRAS, BRAF) factor into your decision about which anti-HER2 treatment to administer to a patient with advanced HER2-positive GI cancer?

	Colorectal cancer	Gastroesophageal cancer	Biliary tract cancers
Dr Bekaii-Saab	Both	Neither	Both
Dr Strickler	Both	Neither	Both
Dr Ciombor	Both	Both	Both
Dr Lieu	KRAS	Neither	Neither
Dr Mehta	KRAS	Neither	KRAS
Dr Philip	Neither	Neither	Neither

Case Presentation – Dr Strickler: 70-Year-Old Woman with HER2-Positive Colon Cancer

- Adenocarcinoma of splenic flexure found on routine screening colonoscopy
 - CT scan: large mass in descending colon, multifocal unresectable hepatic metastases
 - Biopsy confirms metastatic adenocarcinoma consistent with colorectal primary
- Genomic profile: MSS, TMB-low, RAS/BRAF wildtype, TP53 mutation, HER2 IHC 3+; ERBB2 amplified
- Seeking 2nd opinion after PD on FOLFIRI/bevacizumab and FOLFOX/bevacizumab
- Tucatinib + trastuzumab with PR; PD in the liver after 14 months
- Liquid biopsy after progression: MSS, TMB-low, RAS/BRAF wildtype, TP53 and APC mutations, ERBB2 amplified (high +++), MET amplified (medium ++)
- Trastuzumab deruxtecan remains on treatment over 3 years



Agenda

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Module 1: Biomarker Assays in Advanced Gastrointestinal (GI) Cancers

Module 2: Sequencing of Treatment for HER2-Positive GI Cancers

- Colorectal Cancer
- Gastroesophageal Cancer
- Biliary Tract Cancer

Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers



In general, at what point do you administer anti-HER2 treatment to patients with HER2-positive colorectal, gastroesophageal or biliary tract cancer?

	Colorectal cancer	Gastroesophageal cancer	Biliary tract cancers
Dr Bekaii-Saab	Second-line	First-line	Second-line
	metastatic disease	metastatic disease	metastatic disease
Dr Strickler	Second-line	First-line	Second-line
	metastatic disease	metastatic disease	metastatic disease
Dr Ciombor	Second- or third-line metastatic disease	First-line metastatic disease	Second-line metastatic disease
Dr Lieu	Second-line	First-line	Second-line
	metastatic disease	metastatic disease	metastatic disease
Dr Mehta	Second- or third-line metastatic disease	First-, second- or third- line metastatic disease	Second-line and beyond
Dr Philip	Second-line	First-line	Second-line
	metastatic disease	metastatic disease	metastatic disease

Regulatory and reimbursement issues aside, at what point <u>would you like to administer</u> anti-HER2 treatment for patients with HER2-positive disease?

	Colorectal cancer	Gastroesophageal cancer	Biliary tract cancers
Dr Bekaii-Saab	First-line	First-line	First-line
	metastatic disease	metastatic disease	metastatic disease
Dr Strickler	First-line metastatic disease	First-line metastatic disease	First-line metastatic disease
Dr Ciombor	First-line metastatic disease	First-line metastatic disease	First- or second-line metastatic disease
Dr Lieu	Second-line	First-line	Second-line
	metastatic disease	metastatic disease	metastatic disease
Dr Mehta	Second-line	First-line	Second-line
	metastatic disease	metastatic disease	metastatic disease
Dr Philip	Second-line	First-line	First-line
	metastatic disease	metastatic disease	metastatic disease

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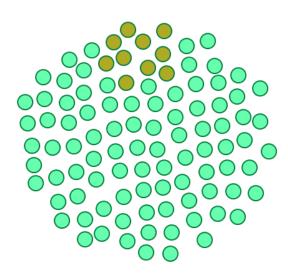
HER2 IHC criteria for HER2+

Breast

- IHC 3+
- IHC 2+ and ISH amplification
- In ≥ **10%** tumor cells

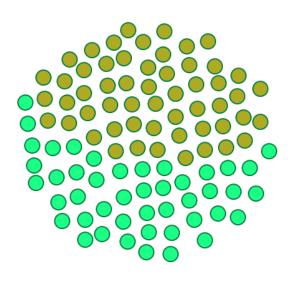
Gastric

- IHC 3+
- IHC 2+ and ISH amplification
- In ≥ **10%** tumor cells



HERACLES¹

- IHC 3+
- IHC 2+ and ISH amplification
- In ≥ **50%** tumor cells



CRC, colorectal cancer; HER2+, HER2 gene amplification; IHC, immunohistochemical stain; ISH, in situ hybridization; m, metastatic. 1. Valtorta et al., Modern Pathology 2015.

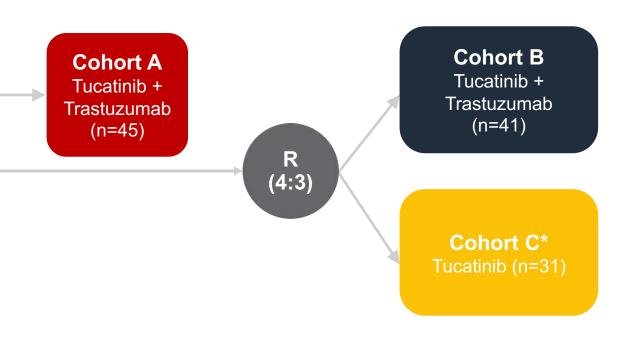
Courtesy of John Strickler, MD

MOUNTAINEER: Tucatinib + Trastuzumab for HER2+ mCRC - Phase 2 Study Design

Key eligibility criteria

- ≥ 2L mCRC
- RAS wild-type
- Measurable disease per RECIST v1.1
- Prior fluoropyrimidines, oxaliplatin, irinotecan, and anti-VEGF mAb
- HER2+ per local IHC/FISH/NGS testing
- No prior anti-HER2 therapy

NCT03043313



*cross-over to Cohort B allowed in case of non-response or disease progression

Primary endpoint:

 Confirmed ORR in Cohorts A+B (RECIST v1.1 by BICR)

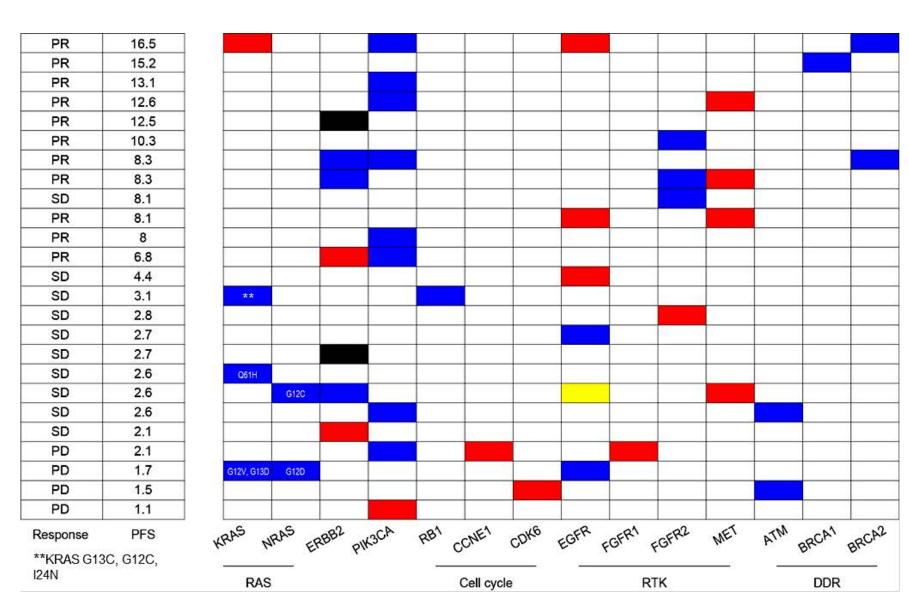
Secondary endpoints:

- DOR in Cohorts A+B
- PFS in Cohorts A+B
- OS in Cohorts A+B
- ORR by 12 weeks of treatment in Cohort C (RECIST 1.1 by BICR)

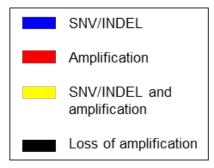
- Tucatinib is an oral, small molecule TKI that targets HER2
- Highly selective for the HER2 receptor
- Selectivity may improve tolerability (skin rash, diarrhea, etc.) compared to non-selective TKIs

Strickler JH et al. Lancet Oncol. 2023;24(5):496-508. Corti C et al. ESMO Open. 2021;6(2):100063. Moulder SL et al. Clin Cancer Res. 2017;23(14):3529-3536.

MOUNTAINEER: Genomic Landscape of Acquired Alterations at Progression Timepoint or EOT



n=31; 1 patient removed from analysis due to no detected alterations at baseline, leading to analysis set of 30; 23/30 showed alteration gains; 2/30 showed ERBB2 loss; 5/30 showed no alteration gains and no ERBB2 loss.

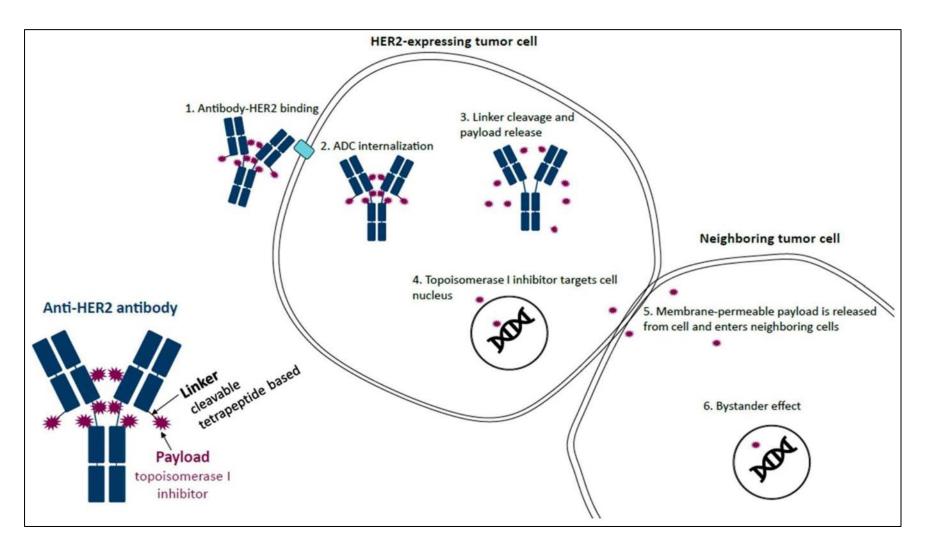


Note: a single BLUE or YELLOW box can represent multiple SNV/INDEL detections in the same gene

DDR: DNA Damage Response; EOT, end of treatment; PFS, progression-free survival; RTK: Receptor Tyrosine Kinase; SNV, single nucleotide variation

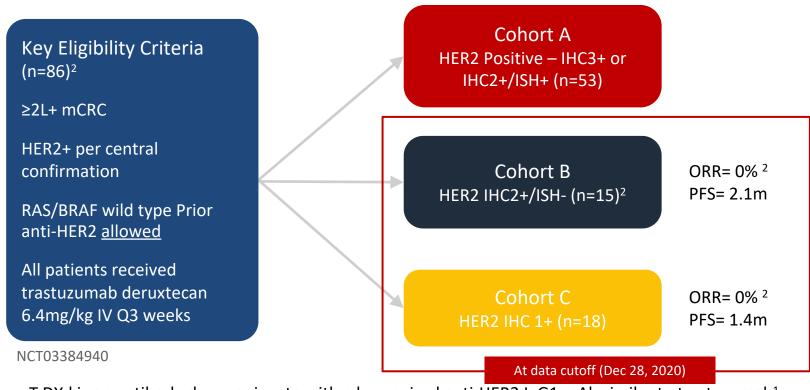


Mechanism of action of trastuzumab deruxtecan (T-DXd)



Swain et al. Cancer Treatment Reviews. 106. May 2022

DESTINY-CRC01: Trastuzumab deruxtecan (T-DXd; ds8201a) for HER2+ mCRC - Phase 2 Study Design



Primary Endpoint:

 Confirmed ORR (RECIST v1.1 by BICR)

Secondary Endpoints:

- DOR
- DCR
- PFS
- OS
- ORR in cohorts B and C (RECIST 1.1 by BICR)

- T-DXd is an antibody drug conjugate with a humanized anti-HER2 IgG1 mAb similar to trastuzumab¹
- Topoisomerase I inhibitor payload¹
- High payload-to-antibody ratio (8:1)³

BICR = blinded independent central review; DCR = disease control rate; DOR = duration of response; HER2+ = HER2 gene amplification; IHC = immunohistochemistry; ISH = in situ hybridization; IV = intravenous; mAb = monoclonal antibody; mCRC = metastatic colorectal cancer; ORR, objective response rate; OS = overall survival; PFS = progression-free survival; Q3 = every 3 weeks; RECIST v1.1 = Response Evaluation Criteria in Solid Tumors



DESTINY-CRC01: Trastuzumab deruxtecan for HER2+ mCRC - Efficacy Outcomes

Cohort A, N=53 (response assessed by BICR)¹⁻³

Confirmed ORR, % (95% CI)	45.3% (31.6-59.6)
mDOR, months (95% CI) ²	7.0 months (5.8-9.5)
Disease control rate, % (95% CI)	83.0% (70.2-91.9)
PFS, months (95% CI) ²	6.9 months (4.1-8.7)
OS, months (95% CI) ²	15.5 months (8.8-20.8)

Data cutoff (Dec 28, 2020)

BICR = blinded independent central review; CI = confidence interval; HER2+ = HER2 gene amplification; mCRC = metastatic colorectal cancer; NE = not evaluable; ORR = objective response rate; OS = overall survival; PFS = progression-free survival



DESTINY-CRC01: Trastuzumab deruxtecan for HER2+ mCRC - Subgroup analyses

Cohort A, N=53 (response assessed by BICR)

	N	ORR (%)	95% CI
Cohort A overall	53	45.3	31.6-59.6
HER2 status IHC3+ IHC2+ and ISH-positive	40	57.5	40.9-73.0
	13	7.7	0.2-36.0
Previous HER2 treatment Yes No	16	43.8	19.8-70.1
	37	45.9	29.5-63.1

BICR = blinded independent central review; CI = confidence interval; HER2+ = HER2 gene amplification; mCRC = metastatic colorectal cancer; NE = not evaluable; ORR = objective response rate; OS = overall survival; PFS = progression-free survival



DESTINY-CRC02: Trastuzumab deruxtecan for HER2+ mCRC - Efficacy Outcomes

	5.4 mg/kg Q3W (n = 82)	6.4 mg/kg Q3W (n = 40)
Confirmed ORR, % (95% CI)	37.8% (27.3-49.2)	27.5% (14.6-43.9)
mDOR, months (95% CI)	5.5 months (4.2-8.1)	5.5 months (3.7-NE)
Disease control rate, % (95% CI)	86.6% (77.3-93.1)	85.0% (70.2-94.3)
PFS, months (95% CI)	5.8 months (4.6-7.0)	5.5 (4.2-7.0)
OS, months (95% CI)	13.4 months (12.5-16.8)	NE (9.9-NE)

Treatment of HER2+ metastatic colorectal cancer: Key takeaways

- All patients with metastatic CRC should be tested for HER2 overexpression/amplification
- My testing practice:
 - Order tissue NGS at time of diagnosis of metastatic disease
 - If ERBB2 amplification found on tissue NGS, then consider HER2 IHC
- T-DXd and tucatinib+trastuzumab are the only FDA-approved therapies for HER2+ metastatic CRC
 - Tucatinib + trastuzumab is an effective and generally well tolerated chemotherapy-free regimen (well suited to RAS WT, HER2-naïve pt)
 - T-DXd is also active in patients with HER2 IHC= 3+, including RAS mutated tumors
 - T-DXd is active after progression on prior anti-HER2 therapies



Regulatory and reimbursement issues aside, what would be your likely second-line treatment for a patient with <u>right-side</u> pan-RAS wild-type, BRAF wild-type, MSS, HER2-positive mCRC <u>as described below</u> who received FOLFOX/bevacizumab and experienced disease progression after 9 months of maintenance bevacizumab?

IHC 3+		IHC 2+, FISH-positive
Dr Bekaii-Saab	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Strickler	Trastuzumab/tucatinib	FOLFIRI/CAPIRI + bevacizumab
Dr Ciombor	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Lieu	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Mehta	Trastuzumab/tucatinib, T-DXd, or add back FOLFOX	Trastuzumab/tucatinib, T-DXd, or add back FOLFOX
Dr Philip	Trastuzumab/tucatinib	Trastuzumab/tucatinib

Regulatory and reimbursement issues aside, what would be your likely second-line treatment for a patient with <u>right-side</u> pan-RAS wild-type, BRAF wild-type, MSS, HER2-positive mCRC <u>as described below</u> who received FOLFOX/bevacizumab and experienced disease progression after 9 months of maintenance bevacizumab?

	IHC 2+, FISH-negative	With a HER2 mutation
Dr Bekaii-Saab	Trastuzumab deruxtecan	FOLFIRI/CAPIRI + bevacizumab
Dr Strickler	FOLFIRI/CAPIRI + bevacizumab	FOLFIRI/CAPIRI + bevacizumab
Dr Ciombor	FOLFIRI/CAPIRI + bevacizumab	FOLFIRI/CAPIRI + bevacizumab
Dr Lieu	FOLFIRI + bevacizumab	FOLFIRI + bevacizumab
Dr Mehta	FOLFIRI/CAPIRI ± bevacizumab, FOLFOXIRI ± bevacizumab, or add back FOLFOX	FOLFIRI/CAPIRI ± bevacizumab, FOLFOXIRI ± bevacizumab, or add back FOLFOX
Dr Philip	FOLFIRI/CAPIRI + bevacizumab	Trastuzumab/tucatinib

Regulatory and reimbursement issues aside, what would be your likely second-line treatment for a patient with left-side pan-RAS wild-type, BRAF wild-type, MSS, HER2-positive mCRC <a href="mailto:as described below who received FOLFOX/bevacizumab and experienced disease progression after 9 months of maintenance bevacizumab?

IHC 3+		IHC 2+, FISH-positive
Dr Bekaii-Saab	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Strickler	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Ciombor	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Lieu	Trastuzumab/tucatinib	Trastuzumab/tucatinib
Dr Mehta	Trastuzumab/tucatinib, T-DXd, or add back FOLFOX	Trastuzumab/tucatinib, T-DXd, or add back FOLFOX
Dr Philip	Trastuzumab/tucatinib	Trastuzumab/tucatinib

Regulatory and reimbursement issues aside, what would be your likely second-line treatment for a patient with left-side pan-RAS wild-type, BRAF wild-type, MSS, HER2-positive mCRC <a href="mailto:as described below who received FOLFOX/bevacizumab and experienced disease progression after 9 months of maintenance bevacizumab?

	IHC 2+, FISH-negative	With a HER2 mutation
Dr Bekaii-Saab	Trastuzumab deruxtecan	FOLFIRI/CAPIRI + bevacizumab
Dr Strickler	FOLFIRI/CAPIRI + bevacizumab	FOLFIRI/CAPIRI + bevacizumab
Dr Ciombor	FOLFIRI/CAPIRI + bevacizumab	FOLFIRI/CAPIRI + bevacizumab
Dr Lieu	FOLFIRI + EGFR antibody	FOLFIRI + EGFR antibody
Dr Mehta	FOLFIRI/CAPIRI ± bevacizumab, FOLFOXIRI ± bevacizumab, or add back FOLFOX	FOLFIRI/CAPIRI ± bevacizumab, FOLFOXIRI ± bevacizumab, or add back FOLFOX
Dr Philip	FOLFIRI/CAPIRI + bevacizumab	Trastuzumab/tucatinib

Agenda

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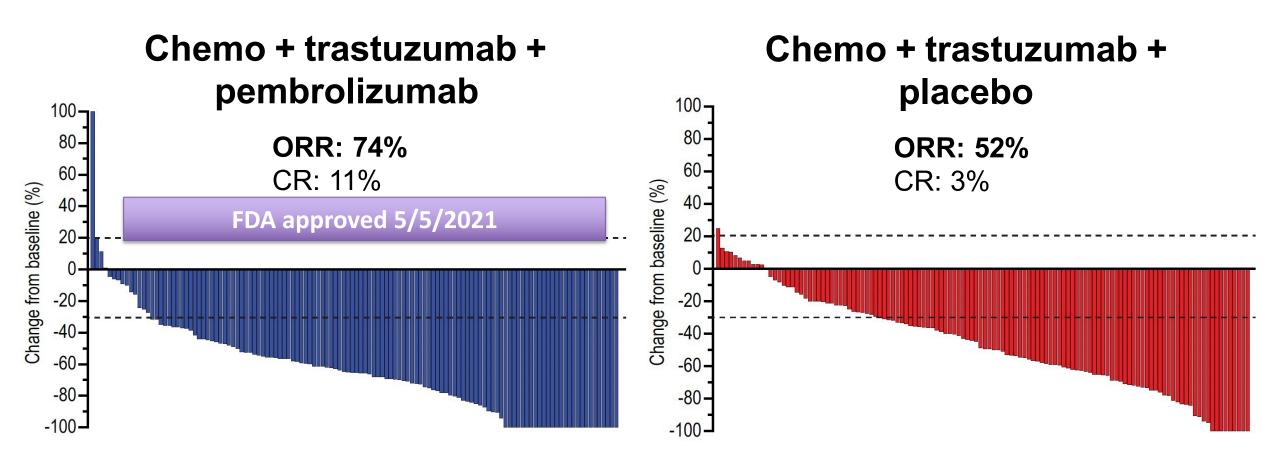
- Colorectal Cancer
- Gastroesophageal Cancer
- Biliary Tract Cancer

Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers



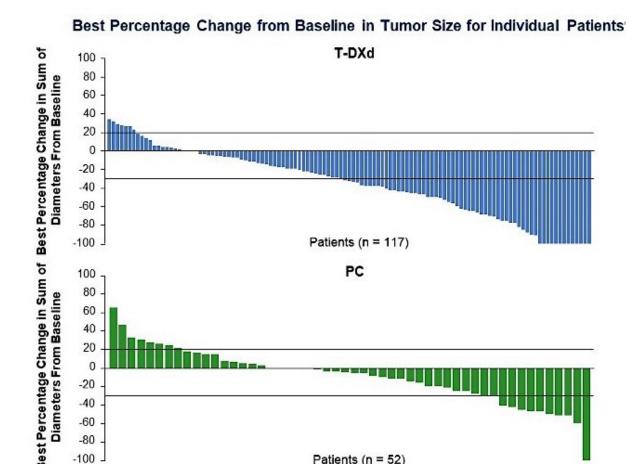
KEYNOTE-811: Overall response rate favors pembrolizumab*



^{*} Interim analysis #1

DESTINY-Gastric01: T-DXd superior to SOC

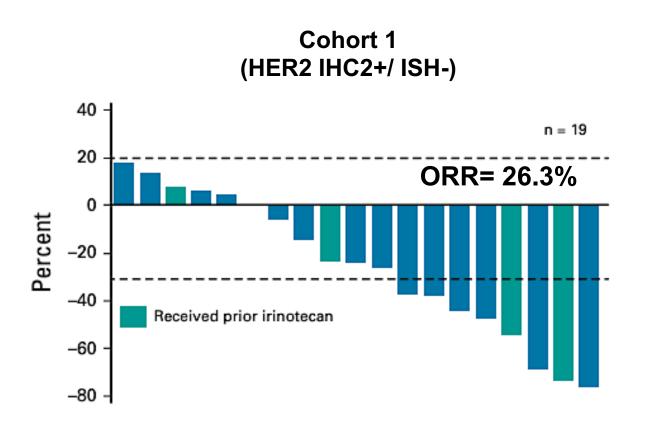
	T-DXd n = 119	PC Overall n = 56
ORR (CR + PR) by ICR, n (%) ^a	61 (51.3) 95% CI, 41.9-60.5	8 (14.3) 95% CI, 6.4-26.2
	P < 0	0.0001b
CR	11 (9.2)	0
PR	50 (42.0)	8 (14.3)
SD	42 (35.3)	27 (48.2)
PD	14 (11.8)	17 (30.4)
Not evaluable	2 (1.7)	4 (7.1)
Confirmed ORR (CR + PR) by ICR, n	50 (42.0)	7 (12.5)
(%)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

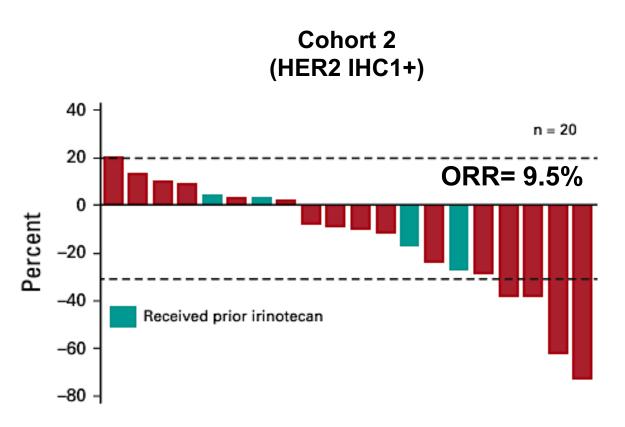


Courtesy of John Strickler, MD

Patients (n = 52)

DESTINY-Gastric01: T-DXd activity for HER2 intermediate/ low expressing tumors





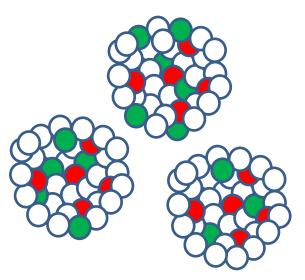
DESTINY-Gastric02: T-DXd in US/European patients with HER2+ gastric/ gastroesophageal cancer (≥ 2L)

Response Assessment by ICR	April 9, 2021 Data Cutoff ^a Patients (N = 79)	November 8, 2021 Data Cutoff ^b Patients (N = 79)
Confirmed ORR,c % (n)	38.0 (30) (95% CI, 27.3-49.6)	41.8 (33) (95% CI, 30.8-53.4)
Confirmed best overall response, % (n) CR PR SD PD Not evaluable	3.8 (3) 34.2 (27) 43.0 (34) 16.5 (13) 2.5 (2)	5.1 (4) 36.7 (29) 39.2 (31) 16.5 (13) 2.5 (2)
Confirmed DCR,d % (n)	81.0 (64) (95% CI, 70.6-89.0)	81.0 (64) (95% CI, 70.6-89.0)
Median DoR, months	8.1 (95% CI, 4.1-NE)	8.1 (95% CI, 5.9-NE) ^e
Median TTR, months	1.4 (95% CI, 1.4-2.6)	1.4 (95% CI, 1.4-2.7)

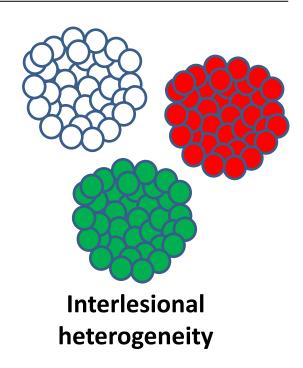
Median OS at November 8, 2021 data cutoff = 12.1 mo; median PFS = 5.6 mo
AE rates similar to DESTINY-Gastric01; Grade 1-2 pneumonitis = 9%; Grade 5 pneumonitis = 1%

Heterogeneity drives resistance to HER2 therapies in patients with HER2+ metastatic gastroesophageal cancer

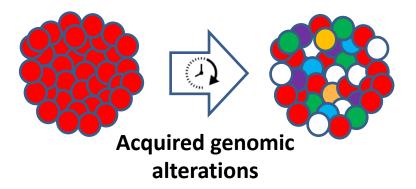
Spatial heterogeneity

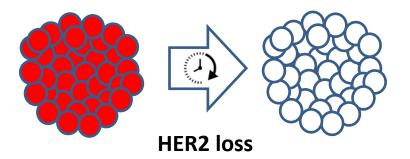


Intralesional heterogeneity



Temporal heterogeneity





HER2 loss and/or gain of KRAS/PIK3CA mutations observed in ~30% of post-progression samples

Treatment of HER2+ metastatic gastroesophageal cancer: Key takeaways

- All patients should be tested for HER2 at the time of diagnosis of metastatic disease
- Consider sequential testing of HER2, PD-L1, MSI/MMR, tumor agnostic biomarkers (via NGS)
- Preferred 1L option: FOLFOX + trastuzumab + pembrolizumab (if PD-L1+)
- Consider retesting HER2 after progression on 1L therapy
- T-DXd is active (and FDA-approved) for pts with IHC3+ or IHC2+/ISH-positive disease who have received a prior trastuzumab-based regimen



Regulatory and reimbursement issues aside, what would be your preferred <u>first-line</u> anti-HER2 treatment for a patient with newly diagnosed metastatic <u>HER2-positive (IHC 3+)</u>, MSS gastroesophageal adenocarcinoma with a PD-L1 combined positive score (CPS) of 0, and what other options would you consider?

Initial anti-HER2 treatment		Other options
Dr Bekaii-Saab	Trastuzumab/chemotherapy	None
Dr Strickler	Trastuzumab/FOLFOX	Trastuzumab/CAPOX
Dr Ciombor	Trastuzumab/FOLFOX	Trastuzumab/CAPOX or 5-FU/cisplatin/trastuzumab
Dr Lieu	Trastuzumab/FOLFOX/ pembrolizumab	Trastuzumab/FOLFOX
Dr Mehta	FOLFOX	Zanidatamab/chemotherapy
Dr Philip	Trastuzumab/FOLFOX or CAPOX	None

Regulatory and reimbursement issues aside, what would you currently recommend as second-line therapy for a patient with metastatic HER2-positive (IHC 3+), MSS gastroesophageal adenocarcinoma with a PD-L1 CPS of 0 who experienced disease progression on FOLFOX/trastuzumab, and what other options would you consider?

Second-line treatment		Other options
Dr Bekaii-Saab	Trastuzumab deruxtecan	None
Dr Strickler	Trastuzumab deruxtecan	Ramucirumab/paclitaxel, ramucirumab, FOLFIRI +/- ramucirumab
Dr Ciombor	Trastuzumab deruxtecan	Tucatinib/trastuzumab +/- ramucirumab/paclitaxel
Dr Lieu	Trastuzumab deruxtecan	Ramucirumab/paclitaxel
Dr Mehta	Trastuzumab deruxtecan	Tucatinib/trastuzumab
Dr Philip	Trastuzumab deruxtecan	Tucatinib/trastuzumab

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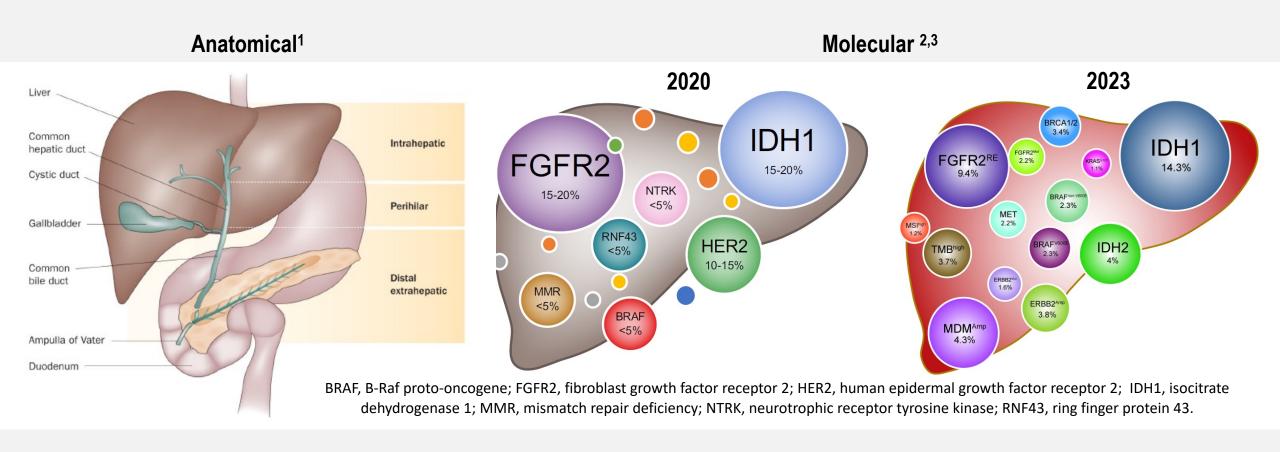
- Colorectal Cancer
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Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers

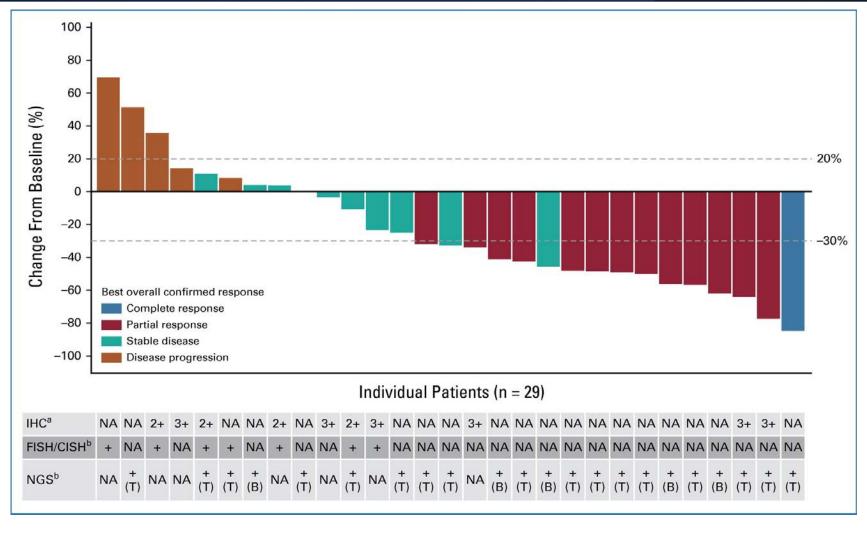


From anatomical to molecular subgroups

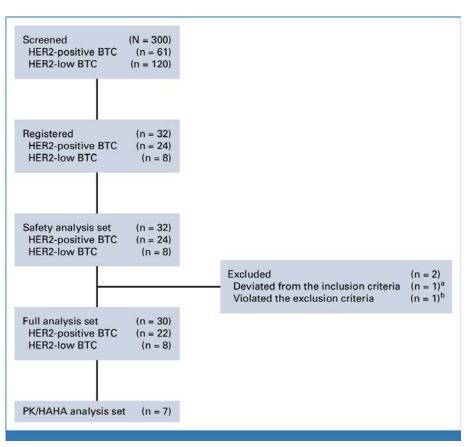


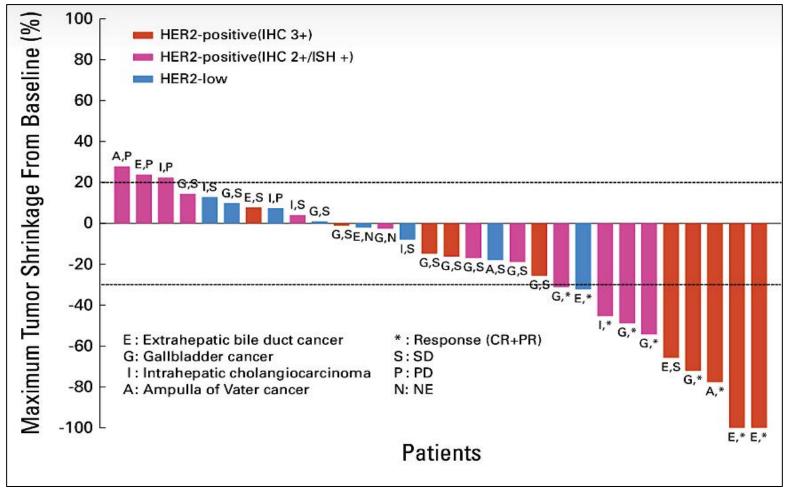
- 1. Blechacz et al Nat Rev Gastroenterol Hepatol 2011;8:512-22
- 2. Lamarca et al *J Hepatol* 2020 Jul;73(1):170-185
- 3. Kendre et al. J Hepatol 2023 Mar;78(3):614-626

Tucatinib and Trastuzumab for Previously Treated Human Epidermal Growth Factor Receptor 2—Positive Metastatic Biliary Tract Cancer (SGNTUC-019)



Trastuzumab Deruxtecan in Human Epidermal Growth Factor Receptor 2—Expressing Biliary Tract Cancer (HERB; NCCH1805): A Multicenter, Single-Arm, Phase II Trial





Biliary Tract Cancer Conclusions/Take-Aways

- NGS (+ emerging liquid platforms) testing is central to future applications of novel therapies in Biliary Cancer
 - Applying genomic technology and molecular classification critically and timely in cholangiocarcinoma is changing the therapeutic landscape.
- Molecularly targeted agents such as those targeting HER2 are providing patients with advanced cholangiocarcinoma new treatment options
 - Drug resistance mechanisms and novel strategies to overcome drug resistance

Regulatory and reimbursement issues aside, what would be your most likely <u>initial anti-HER2 treatment</u> for a patient with advanced <u>HER2-overexpressing (IHC 3+)</u> biliary tract cancer (PS 0), and what other options would you consider?

	Initial anti-HER2 treatment	Other options
Dr Bekaii-Saab	Tucatinib/trastuzumab	None
Dr Strickler	Trastuzumab deruxtecan	Tucatinib/trastuzumab, trastuzumab/pertuzumab, zanidatamab
Dr Ciombor	Tucatinib/trastuzumab	Trastuzumab/pertuzumab, T-DXd, zanidatamab
Dr Lieu	Trastuzumab deruxtecan	Zanidatamab
Dr Mehta	I would not recommend anti-HER2 treatment in this setting	None
Dr Philip	Tucatinib/trastuzumab	Zanidatamab

Regulatory and reimbursement issues aside, what would be your preferred second-line systemic treatment for a patient with advanced <u>HER2-overexpressing (IHC 3+)</u> biliary tract cancer (PS 0) who experienced disease progression after durvalumab/cisplatin/gemcitabine, and what other options would you consider?

	Second-line treatment	Other options	
Dr Bekaii-Saab	Tucatinib/trastuzumab	None	
Dr Strickler	Trastuzumab deruxtecan	Tucatinib/trastuzumab, zanidatamab, trastuzumab/pertuzumab	
Dr Ciombor	Tucatinib/trastuzumab	T-DXd, trastuzumab/pertuzumab, zanidatamab	
Dr Lieu	Trastuzumab deruxtecan	Zanidatamab	
Dr Mehta	Trastuzumab deruxtecan or tucatinib/trastuzumab	FOLFOX, FOLFIRI, regorafenib, zanidatamab, nivolumab, pembrolizumab/lenvatinib	
Dr Philip	Tucatinib/trastuzumab	Zanidatamab	

Agenda

Introduction: Back to School Special

Module 1: Biomarker Assays in Advanced Gastrointestinal (GI) Cancers

Module 2: Sequencing of Treatment for HER2-Positive GI Cancers

- Colorectal Cancer
- Gastroesophageal Cancer
- Biliary Tract Cancer

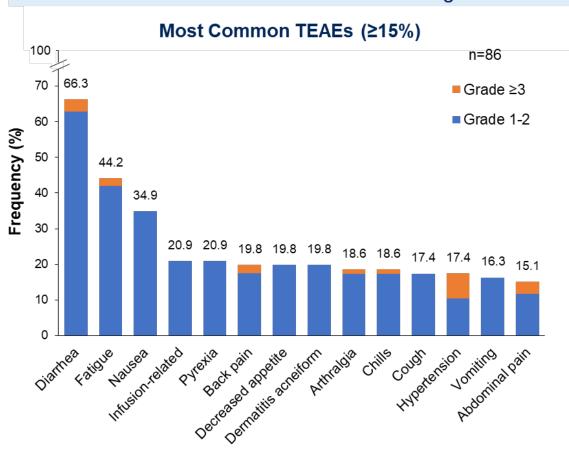
Module 3: Toxicities Associated with Anti-HER2 Treatment

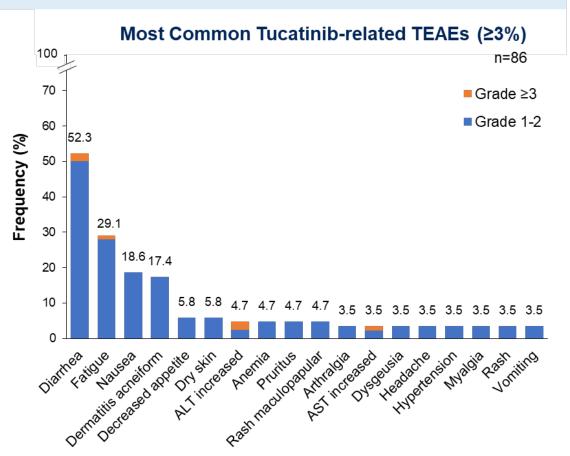
Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers



MOUNTAINEER: Tucatinib + trastuzumab AE profile

- · Majority of TEAEs were low grade, and rates were stable with longer follow-up
- Common TEAEs included diarrhea (66.3%), fatigue (44.2%) and nausea (34.9%)
- Most tucatinib-related TEAEs were of low grade





AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; TEAE, treatment-emergent adverse event.



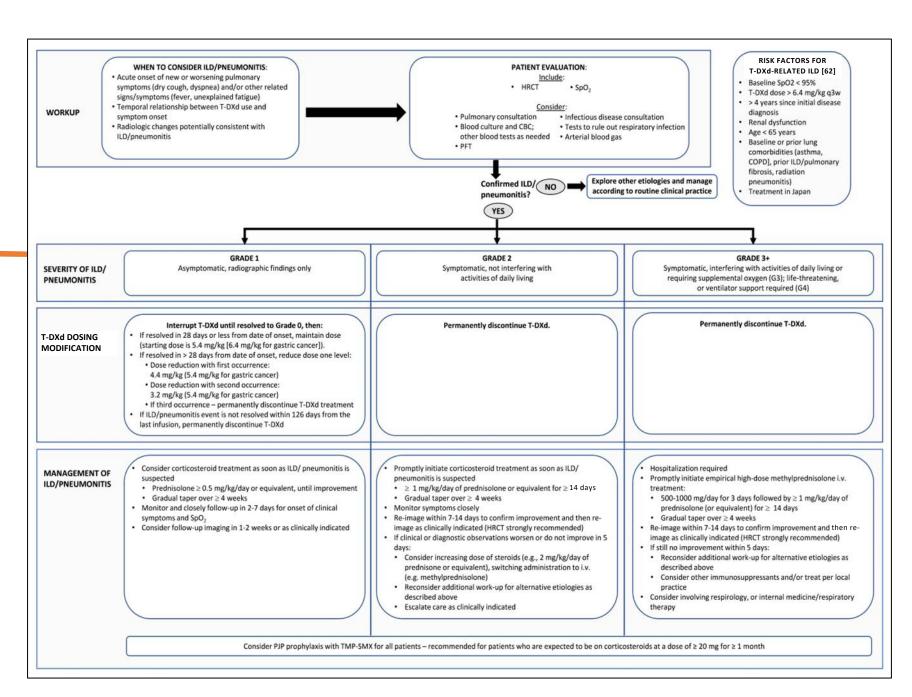
DESTINY-CRC02: Adjudicated Drug-Related ILD/ Pneumonitis by Independent Adjudication Committee

	T-DXd 5.4 mg/kg Q3W			T-DXd 6.4 mg/kg Q3W
Adjudicated as drug-related ILD/pneumonitis, n (%)	Stage 1 n = 41 ^a	Stage 2 n = 42	Total N = 83	Stage 1 N = 39
Any grade	4 (9.8)	3 (7.1)	7 (8.4)	5 (12.8)
Grade 1	1 (2.4)	0	1 (1.2)	2 (5.1)
Grade 2	3 (7.3)	3 (7.1)	6 (7.2)	2 (5.1)
Grade 3	0	0	0	0
Grade 4	0	0	0	0
Grade 5	0	0	0	1 (2.6)



Management of interstitial lung disease/pneumonitis in patients undergoing treatment with trastuzumab deruxtecan (T-DXd)

Henning et al. Current Oncology 2023. 30(9), 8019-8038;



At what grade of ILD would you permanently discontinue therapy with trastuzumab deruxtecan for a patient with HER2-positive GI cancer?

	Colorectal cancer	Gastroesophageal cancer	Biliary tract cancers
Dr Bekaii-Saab	Grade 2	Grade 2	Grade 2
Dr Strickler	Grade 2	Grade 2	Grade 2
Dr Ciombor	Grade 2	Grade 2	Grade 2
Dr Lieu	Grade 2	Grade 2	Grade 2
Dr Mehta	Grade 2	Grade 2	Grade 2
Dr Philip	Grade 1	Grade 2	Grade 2

Based on available data and your personal clinical experience, how would you characterize the degree of alopecia observed with trastuzumab deruxtecan in patients with GI cancers?

Dr Bekaii-Saab	Moderate	
Dr Strickler	Moderate	
Dr Ciombor	Moderate	
Dr Lieu	Less than that observed with other chemotherapy	
Dr Mehta	Moderate	
Dr Philip	Less than that observed with other chemotherapy	



Agenda

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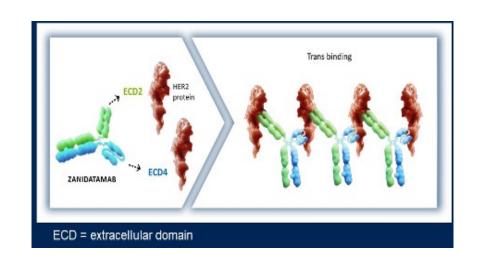
- Colorectal Cancer
- Gastroesophageal Cancer
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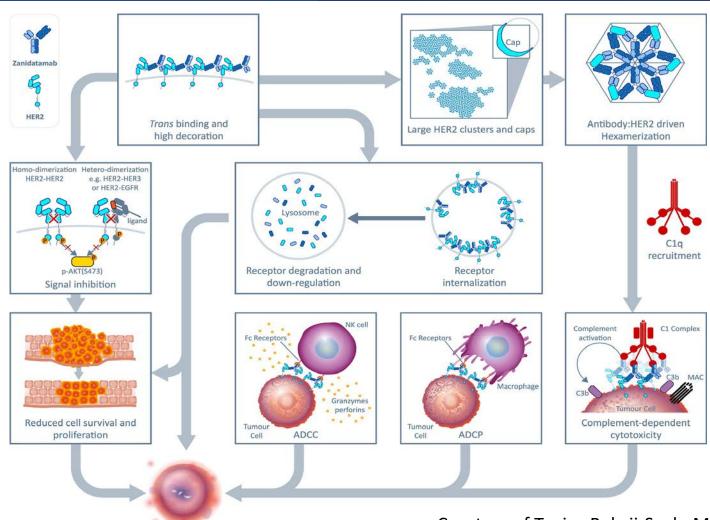
Module 3: Toxicities Associated with Anti-HER2 Treatment

Module 4: Novel Agents and Strategies for HER2-Positive GI Cancers



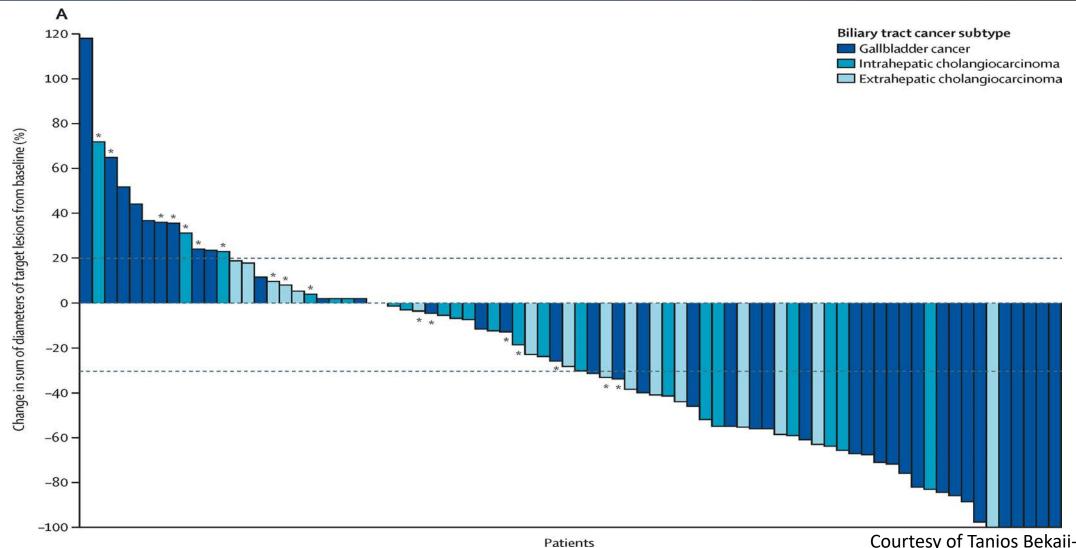
Zanidatamab: anti-HER2 biparatopic antibody that induces unique HER2 clustering and complement-dependent cytotoxicity



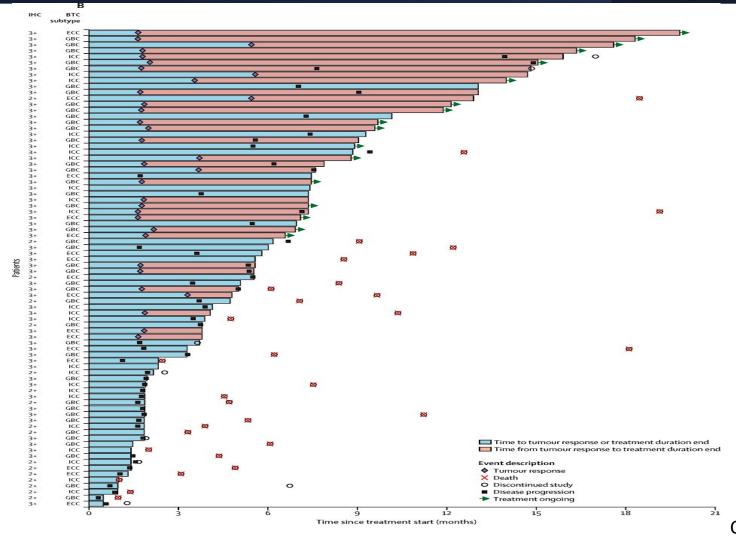


Tumor cell death

Zanidatamab for HER2-amplified, unresectable, locally advanced or metastatic biliary tract cancer (HERIZON-BTC-01): a multicentre, single-arm, phase IIb study



Zanidatamab for HER2-amplified, unresectable, locally advanced or metastatic biliary tract cancer (HERIZON-BTC-01): a multicentre, single-arm, phase IIb study



Inside the Issue: Optimizing the Diagnosis and Treatment of Neuroendocrine Tumors

A CME/MOC-Accredited Live Webinar

Thursday, August 29, 2024 5:00 PM - 6:00 PM ET

Faculty

Pamela Kunz, MD Simron Singh, MD, MPH

Moderator Neil Love, MD



Thank you for joining us!

Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open for 5 minutes after the meeting ends.

Information on how to obtain CME, ABIM MOC and ABS credit is provided in the Zoom chat room.

Attendees will also receive an email in 1 to 3 business days with these instructions.

