Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Gastroesophageal and Hepatobiliary Cancers — A 2023 Post-ASCO GI Webcast A CME/MOC-Accredited Virtual Event Wednesday, March 8, 2023 5:00 PM – 6:00 PM ET

Consulting Clinical Investigators Lipika Goyal, MD, MPhil Zev Wainberg, MD, MSc Faculty Panel Eric H Lee, MD, PhD Neil Morganstein, MD Swati Vishwanathan, MD

Moderator Neil Love, MD



Consulting Clinical Investigators



Lipika Goyal, MD, MPhil Director of Gastrointestinal Oncology Stanford Cancer Center Associate Professor Stanford University School of Medicine Palo Alto, California

Faculty Panel



Eric H Lee, MD, PhD

Hematologist/Oncology and Research Director Compassionate Cancer Care Medical Group Fountain Valley, California



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



Neil Morganstein, MD Hematology Oncology Atlantic Health System Summit, New Jersey



Moderator Neil Love, MD Research To Practice



Swati Vishwanathan, MD Attending Physician Oncology/Hematology United Hospital Center WVU Medicine Bridgeport, West Virginia



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





Meet The Professor Optimizing the Management of Colorectal Cancer

> Wednesday, March 22, 2023 5:00 PM – 6:00 PM ET

> > Faculty John Strickler, MD

Moderator Neil Love, MD



Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Ovarian Cancer

Part 1 of a 2-Part CME Symposium Series Held in Conjunction with the 2023 Society of Gynecologic Oncology (SGO) Annual Meeting on Women's Cancer[®]

Sunday, March 26, 2023 11:45 AM – 1:15 PM ET

Faculty Mansoor Raza Mirza, MD Amit M Oza, MD Richard T Penson, MD, MRCP

> Moderator Joyce F Liu, MD, MPH



Cases from the Community: Investigators Discuss Available Research Guiding the Care of Patients with Endometrial Cancer

Part 2 of a 2-Part CME Symposium Series Held in Conjunction with the 2023 Society of Gynecologic Oncology (SGO) Annual Meeting on Women's Cancer[®]

Monday, March 27, 2023 11:45 AM – 1:15 PM ET

Faculty Robert L Coleman, MD Matthew A Powell, MD Brian M Slomovitz, MD

Moderator Shannon N Westin, MD, MPH



Year in Review: Clinical Investigator **Perspectives on the Most Relevant New Data Sets** and Advances in Oncology A Multitumor CME/MOC-Accredited Live Webinar Series **Acute Myeloid Leukemia** and Myelodysplastic Syndromes Tuesday, April 4, 2023 5:00 PM - 6:00 PM ET Faculty Uma Borate, MD, MS Andrew H Wei, MBBS, PhD **Moderator** Neil Love, MD

Meet The Professor Optimizing the Management of ER-Positive and Triple-Negative Breast Cancer

> Wednesday, April 12, 2023 5:00 PM – 6:00 PM ET

> > Faculty Sara A Hurvitz, MD

> > > Moderator Neil Love, MD



Year in Review: Clinical Investigator **Perspectives on the Most Relevant New Data Sets** and Advances in Oncology A Multitumor CME/MOC-Accredited Live Webinar Series **Immunotherapy and Other Nontargeted Approaches for Lung Cancer** Thursday, April 13, 2023 5:00 PM - 6:00 PM ET Faculty Luis Paz-Ares, MD, PhD Heather Wakelee, MD **Moderator** Neil Love, MD

ONCOLOGY TODAY WITH DR NEIL LOVE

Management of Gastroesophageal Cancers



DR MANISH SHAH WEILL CORNELL MEDICINE









Dr Manish Shah – Management of Gas Oncology Today with Dr Neil Love —

(15) (30)

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Commercial Support

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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 Love — Disclosures

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Dr Goyal — Disclosures

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Dr Wainberg — Disclosures

Advisory Committee and Consulting Agreements	Arcus Biosciences, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Bristol-Myers Squibb Company, Daiichi Sankyo Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Lilly, Merck, Novartis, Pfizer Inc, Roche Laboratories Inc, Seagen Inc
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Data and Safety Monitoring Board/Committee	Daiichi Sankyo Inc, Pfizer Inc



Dr Lee — Disclosures

No relevant conflicts of interest to disclose.



Dr Morganstein — Disclosures

No relevant conflicts of interest to disclose.



Dr Vishwanathan — Disclosures

No relevant conflicts of interest to disclose.





Lipika Goyal, MD, MPhil Director of Gastrointestinal Oncology Stanford Cancer Center Associate Professor Stanford University School of Medicine Palo Alto, California



Zev Wainberg, MD, MSc

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



Agenda

Module 1: Gastroesophageal Cancers — Dr Wainberg

Module 2: Hepatobiliary Cancers — Dr Goyal



Agenda

Module 1: Gastroesophageal Cancers — Dr Wainberg

- Systemic therapy considerations for patients with HER2-negative localized gastroesophageal cancers
- First-line systemic therapy for patients with metastatic esophageal or gastric cancer
- Zolbetuximab/chemotherapy as first-line treatment for HER2-negative locally advanced unresectable or metastatic gastric/GEJ cancers
- 0
- Chemotherapy/trastuzumab/pembrolizumab as first-line therapy for HER2-positive metastatic gastric cancer



Repeat tissue biopsy versus ctDNA testing for HER2-positive GI cancers after disease progression on first-line therapy



Trastuzumab deruxtecan as second-line therapy for patients with HER2-positive gastric cancer; management of CNS disease

Systemic therapy considerations for patients with HER2-negative localized gastroesophageal cancers





First-line systemic therapy for patients with metastatic esophageal or gastric cancer





Zolbetuximab/chemotherapy as first-line treatment for HER2negative locally advanced unresectable or metastatic gastric and gastroesophageal junction cancers





Chemotherapy/trastuzumab/pembrolizumab as first-line therapy for HER2-positive metastatic gastric cancer





Repeat tissue biopsy versus ctDNA testing for HER2-positive GI cancers after disease progression on first-line therapy





Trastuzumab deruxtecan as second-line therapy for patients with HER2-positive gastric cancer; management of CNS disease





Agenda

Module 2: Hepatobiliary Cancers — Dr Goyal

- Tissue biopsy for patients with suspected hepatocellular carcinoma (HCC)
- Atezolizumab/bevacizumab versus durvalumab/tremelimumab as first-line therapy for HCC; disease etiology and response to treatment
- Liver-directed therapy in the era of effective novel systemic regimens
- First-line single-agent immunotherapy for patients with HCC
- 0
- Sequencing tyrosine kinase inhibitors for patients with HCC with and without contraindications to immunotherapy
- 0
- Perspective on positive top-line data from the IMbrave050 trial evaluating adjuvant atezolizumab/bevacizumab for high-risk HCC



Survival benefit with durvalumab/gemcitabine/cisplatin for advanced biliary tract cancers (BTCs) in the TOPAZ-1 trial — A new standard?

Spectrum of targetable genetic alterations in BTCs; novel FGFR2 inhibitors for cholangiocarcinoma

Tissue biopsy for patients with suspected hepatocellular carcinoma (HCC)





Atezolizumab/bevacizumab versus durvalumab/tremelimumab as first-line therapy for HCC; disease etiology and response to treatment





Liver-directed therapy in the era of effective novel systemic regimens





First-line single-agent immunotherapy for patients with HCC





Sequencing tyrosine kinase inhibitors for patients with HCC with and without contraindications to immunotherapy





Perspective on positive top-line data from the IMbrave050 trial evaluating adjuvant atezolizumab/bevacizumab for high-risk HCC





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Spectrum of targetable genetic alterations in BTCs; novel FGFR2 inhibitors for cholangiocarcinoma



Dr Lipika Goyal (Palo Alto, California)



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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 up to 5 minutes after the meeting ends.

CME and MOC credit information will be emailed to each participant within 5 business days.



Supplementary Slides



Key Biomarkers to Know



Frontline Chemo-PD-1 is Here to Stay: CM-649



- CM-649 is a positive trial for CPS \geq 5 (primary) and all randomized (secondary)
- 4/2021: Nivo FDA approved with 5FU/platinum for advanced/metastatic GEA, regardless of PD-L1
- 15% increase in G3-4 TRAEs (59% vs 44%) in nivo-chemo vs. chemo

Lancet 2021, Nature 2022

Courtesy of Samuel J Klempner, MD

PD-L1 Strata in Frontline Chemo-IO

CI-Containing

Regimen Better

PD-L1 CPS ≥10 146 142 0.56 (0.41-0.77)
expression CPS ≥5 197 200 0.64 (0.49-0.84)
CPS ≥1 275 271 0.73 (0.58-0.90)
PD-L1 Trial Comparison No. Location Expression HR (95% Cl)
KEYNOTE-590 Pembrolizumab plus chemotherapy v chemotherapy 54 v 46 Esophageal CPS < 10 0.66 (0.42 to 1.04
CheckMate-649 Nivolumab plus chemotherapy v chemotherapy 137 v 148 Gastric CPS < 1 0.92 (0.70 to 1.23
CheckMate-649 Nivolumab plus chemotherapy v chemotherapy 168 v 173 Gastric CPS 1-4 0.95 (0.75 to 1.21)
CheckMate-649 Nivolumab plus chemotherapy v chemotherapy 316 v 310 Gastric CPS < 5 0.94 (0.78 to 1.13
KEYNOTE-062 Pembrolizumab plus chemotherapy v chemotherapy 158 v 160 Gastric CPS 1-9 0.84 (0.66 to 1.06)
KEYNOTE-062 Pembrolizumab v chemotherapy 164 v 160 Gastric CPS 1-9 1.03 (0.81 to 1.30)

Chemotherapy

•

Outside dMMR/MSI-H PD-L1 CPS expression is the best predictor of ICI benefit in frontline GEA

- The magnitude of benefit differs across PD-L1 CPS subgroups
- Risk/benefit should be discussed with all patients
- PD-L1 testing remains important

Courtesy of Samuel J Klempner, MD

Population	chemotherapy	Chernotherapy		Unstratified HR for death (95% CI)
Overall (n = 1,581)	13.8	11.6	-	0.78 (0.70, 0.87)
PD-L1 CPS <1 (n = 265)	13.1	12.5		0.95 (0.73, 1.24)
PD-L1 CPS ≥1 (n = 1,297)	13.8	11.3		0.74 (0.66, 0.84)
PD-L1 CPS <5 (n = 607)	12.4	12.3		0.94 (0.79, 1.11)
PD-L1 CPS ≥5 (n = 955)	14.4	11.1	→	0.69 (0.60, 0.79)
PD-L1 CPS <10 (n = 795)	12.4	12.5		0.91 (0.78, 1.06)
PD-L1 CPS ≥10 (n = 767)	15.0	10.9		0.66 (0.56, 0.77)
		Γ		<u>1</u>
		0.5	1	2

Nivolumab plus

ESMO 9/2021, JCO 2022, Nature 2022

Nivo + chemo better Chemo better

Other Chemo-IO Approaches: KEYNOTE-859

Key eligibility criteria

- Histologically or cytologically confirmed locally advanced unresectable or metastatic gastric/GEJ adenocarcinoma
- Known PD-L1 status
- HER2-negative status
- Measurable disease per RECIST v1.1
- ECOG PS 0 or 1
- Available tumor tissue
- No prior treatment for advanced gastric/GEJ cancer

Stratification

- Geographic region
- PD-L1 CPS
- Combination chemotherapy



- Oxali/Cis can be capped at 6 cycles per local standards
- 5FU may continue beyond oxali/cis
- Pembro up to 35 cycles (~2yrs)

• Sample size = 1,579pts

- Primary Endpoint = OS
- Secondary = PFS, ORR, DOR

11/22/2022: Press release that KN-859 met OS in all randomized, and that PFS and ORR were improved vs chemo

CLAUDIN18.2 – A NOVEL TARGET



- Member of the claudin family
- Major structural component of tight junctions
- Seals intercellular space in epithelial sheets
- Not expressed in any healthy tissues, except: stomach mucosa, but with limited accessibility

Courtesy of Florian Lordick, MD, PhD

Mechanism of Action of Zolbetuximab



SPOTLIGHT – STUDY DESIGN



^aStudy was conducted at 215 sites in 20 countries across Australia, Asia, Europe, N. America, and S. America; ^bBy central IHC using the analytically validated VENTANA CLDN18 (43-14A) RxDx Assay; ^oBy central or local HER2 testing; ^d800 mg/m² at cycle 1 day 1 followed by 600 mg/m² on cycle 1 day 22 and days 1 and 22 of subsequent cycles; ^ePer RECIST v1.1 by independent review committee.

Courtesy of Florian Lordick, MD, PhD

Shitara K et al. ASCO GI Meeting. 2023; LBA 292

SPOTLIGHT – PROGRESSION-FREE SURVIVAL



• PFS was significantly longer in patients treated with zolbetuximab + mFOLFOX6 vs placebo + mFOLFOX6

Data cutoff: September 9, 2022; Median follow-up = 12.94 months (zolbetuximab + mFOLFOX6) vs 12.65 months (placebo + mFOLFOX6). Per RECIST version 1.1.

Courtesy of Florian Lordick, MD, PhD

SPOTLIGHT – OVERALL SURVIVAL



• OS was significantly longer in patients treated with zolbetuximab + mFOLFOX6 vs placebo + mFOLFOX6

Data cutoff: September 9, 2022; Median follow-up = 22.14 months (zolbetuximab + mFOLFOX6) vs 20.93 months (placebo + mFOLFOX6).

	HR (95%		Zolbetuximab +	Placebo +
	(95%)		mFOLFOX6	MFOLFOX6
Subaroup			no, events/	no. events/
de la				
≤65 vears		0,741 (0,561-0,980)	89/181	112/181
>65 years	_ _	0.761 (0.533-1.086)	60/102	65/101
Sex	_			
Male		0.760 (0.579-0.999)	98/176	113/175
Female		0.726 (0.502-1.049)	51/107	64/107
Region				
Asia		0.643 (0.437-0.947)	47/88	59/89
Non-Asia	_ 	0.796 (0.610-1.039)	102/195	118/193
lumber of metastatic sites				
0-2		0.767 (0.594-0.990)	110/219	129/219
≥3		0.670 (0.436-1.030)	39/64	48/63
Prior gastrectomy				
No		0.839 (0.648-1.086)	109/199	125/200
Yes		0.575 (0.380-0.869)	40/84	52/82
Primary site				
Stomach		0.666 (0.517-0.858)	111/219	135/210
GEJ		1.072 (0.690-1.666)	38/64	42/72
auren classification				
Diffuse		0.766 (0.530-1.108)	46/82	75/117
Intestinal	_	0.552 (0.358-0.851)	38/70	48/66
Misseed (while was		0.992 (0.638-1.543)	48/81	34/55

• OS was significantly longer in patients treated with zolbetuximab + mFOLFOX6 across most subgroups

Data cutoff: September 9, 2022.

SPOTLIGHT – OVERALL RESPONSE RATE

	Zolbetuximab + mFOLFOX6 (N = 211)	Placebo + mFOLFOX6 (N = 211)
Patients ^a , n	128	131
ORR ^b , % (95% CI)	60.7 (53.72–67.30)	62.1 (55.17–68.66)
BOR ^{c,d} , n (%)		
CR	12 (5.7)	7 (3.3)
PR	116 (55.0)	124 (58.8)
SD	45 (21.3)	52 (24.6)
PD	14 (6.6)	14 (6.6)
Median DOR ^b , months, (95% CI)	8.51 (6.80–10.25)	8.11 (6.47–11.37)
3rd quartile, months (95% CI)	29.9 (10.41–NE)	15.5 (13.27–NE)

- Response rates were similar between treatment arms
- Formal analysis of PROs is pending
 - Initial descriptive analysis did not indicate differences between treatment arms

^aPatients with measurable disease. ^bPer RECIST version 1.1 by independent review committee; ^cPatients with non-CR/non-PD, no disease, missing data, or who could not be evaluated are not shown; ^dPatients with missing data had no post-baseline imaging assessment.

Courtesy of Florian Lordick, MD, PhD

SPOTLIGHT – TEAES IN ≥15% OF ALL TREATED PATIENTS

		Zo	olbetuxima	ab + mFO	LFOX6 (N	l = 279)				Placebo + m	FOLFOX6 (N = 278))
Nausea 8	1.0						16.1		6.5				60.8
Vomiting		64	.5				16.1		5.8		34.5		
Decreased appetite				47.0				5.7	3.2		33.5		
Diarrhea					38.7			4.3	3.2			43.9	
Peripheral sensory neuropathy					38.0			3.9	5.4			42.4	
Neutropenia					36.2	28.3				23.4	33.8		
Anemia					35.5			8.6	9.4	1	37.1		
Constipation					35.5			1.1	0.7		39.6	3	
Neutrophil count decreased					34.1	1 24	l.7			24.8	32.0		
Fatigue						28.0		6.1	5.0		32.0		
Asthenia						24	4.7	7.2	2.5	22.3			
Abdominal pain						2	23.3	4.3	2.2		28.8		
Stomatitis							20.8	2.5	1.1	20.1			
Weight decreased							19.7	1.8	0.7	19.4			
White blood cell count decreased							17.9	2.9	5.8	16.5			
Pyrexia							17.6	0.4	0.4	16.2			
Aspartate aminotransferase increased							17.6	1.4	2.5	15.5			
Edema peripheral							17.2	0.7	0 9.4				
Hypokalemia							17.2	5.7	3.6	14.0			
Abdominal pain upper							16.8	1.4	0 1	1.2			All grade
Paresthesia							15.8	2.2	1.4	16.5			Grade≥3
Hypoalbuminemia							15.4	3.9	0.7 6.1				
	80	70	60	50	40	30	20	10	0 10	20 3	60 40	50	60

• The most common TEAEs with zolbetuximab + mFOLFOX6 were nausea and vomiting as on-target effects

^aPreferred terms were defined according to the Medical Dictionary for Regulatory Activities terminology version 25.0.

Courtesy of Florian Lordick, MD, PhD

Tumor Size Change with T-DXd in HER2+ Adv Gastric/GEJ Cancer After Trastuzumab (DESTINY-Gastric01 and 02)



1. Van Cutsem. ESMO 2021. Abstr LBA55. 2. Ku ESMO 2022. Abstr 1205MO. 3. Shitara. NEJM. 2020;382:2419. 4. Yamaguchi. ASCO GI 2022. Abstr 242. Courtesy of Yelena Y Janjigian, MD

DESTINY-Gastric01 and 02: AEs with T-DXd in HER2+ Adv Gastric/GEJ Cancer After Trastuzumab

DESTINY-Gastric02 (US/Europe; progression on 1L trastuzumab)¹

TFAFs in >15% of Patients	T-DXd (N = 79)			
n (%)	Any Grade	Grade ≥3		
Patients with ≥1 TRAEs	74 (93.7)	21 (26.6)		
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-Gastric01

(Japan; progression on ≥ 2 prior regimens)²

TEAEs in ≥20% of Patients Treated with T-DXd^a

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

1. Van Cutsem. ESMO 2021. Abstr LBA55. 2. Yamaguchi. ASCO GI 2022. Abstr 242

Courtesy of Yelena Y Janjigian, MD

DESTINY-Gastric01 Biomarker Analysis: T-DXd in HER2+ Adv Gastric/GEJ Cancer After ≥2 Prior Regimens

- Only 30% of new tumor samples obtained after/during trastuzumab therapy
- ORR slightly higher in patients w/HER2+ tumor after/during first trastuzumab
 - ORR: 57% vs 48%
 - OS confounded by small sample size (same)
- High level of ERBB2 (mRNA or plasma) predicts high ORR
- Tissue mRNA >9.7: ORR 81% vs 23% (small sample size)
- Plasma ERBB2 detected in 64% of patients (Guardant 360)
 - ORR with *ERBB2+* ctDNA: 76% vs 40%
 - OS nearly doubled if ctDNA ERBB2 >6 copy: 21 vs 12 mo median OS
- Co-occurring EGFR/MET amplifications associated with worse outcome

- FDA urges biopsy of all patients after trastuzumab progression
 - ~20% of patients with esophagogastric cancer have loss of HER2
- This analysis indicates that ctDNA can be used if biopsy not feasible

DESTINY-Gastric02: Additional T-DXd Results in HER2+ Adv Gastric/GEJ Cancer After First-Line Trastuzumab

- GEJ primary: 66%¹
 - vs 86% in DESTINY-Gastric01²
- Rebiopsy for HER2 mandated for all patients and centrally reviewed¹
 - vs 30% in DESTINY-Gastric01²
- ORR (primary endpoint): 38% w/median PFS 5.5 mo
 - vs 27% ORR, median PFS 4.2 mo with ramucirumab/paclitaxel³

- No new safety signals¹: 7.6% ILD
 - 0 Grade 3/4 events, 1 Grade 5
- Grade ≥3 TEAEs: 27%¹
 - Compares favorably to ramucirumab/paclitaxel³

IMbrave150 Study Design

Key eligibility

- Locally advanced or metastatic and/or unresectable HCC
- No prior systemic therapy
- ECOG PS 0-1
- Child-Pugh class A liver function

Stratification

- Region (Asia excluding Japan^a/Rest of world)
- ECOG (0/1)
- Macrovascular invasion and/or extrahepatic spread (Presence/Absence)
- Baseline AFP (<400/≥400 ng/mL)



Co-primary endpoints

- OS
- IRF-assessed PFS per RECIST 1.1

No exclusion for main PVT

Secondary endpoints included:

- IRF-assessed ORR, DOR per RECIST 1.1 and HCC mRECIST^b
- PROs: TTD^c of QOL, physical and role functioning (EORTC QLQ-C30)
- Safety and tolerability assessed based on the nature, frequency and severity of AEs per NCI CTCAE version 4.0

^a Japan is included in rest of world. ^b Tumor assessment by computed tomography or magnetic resonance imaging was done at baseline and every 6 weeks until 54 weeks, then every 9 weeks thereafter. ^c Time from randomization to first decrease from baseline of ≥ 10 points maintained for 2 consecutive assessments or 1 assessment followed by death from any cause within 3 weeks. AFP, α-fetoprotein; CTCAE, Common Terminology Criteria for Adverse Events; ECOG PS, Eastern Cooperative Oncology Group Performance Status; EORTC QLQ-C30, European Organization for Research and Treatment of Cancer quality-of-life questionnaire for cancer; IRF, independent review facility; mRECIST, modified RECIST; NCI, National Cancer Institute; PRO, patient-reported outcomes; QOL, quality of life; TTD, time to deterioration. Courtesy of Richard S Finn, MD

IMbrave150 Trial Key Efficacy Data: Updated OS and PFS

- Primary analysis OS/PFS HR: 0.58/0.59 (median follow-up: 8.6 mo)



Finn RS et al NEJM 2020, Finn RS et al ASCO GI 2021, Cheng AL J Hep 2022

Updated response and duration of response

	Updated analysis ^a					
	RECIS	ST 1.1	HCC mF	RECIST		
	Atezo + Bev	Sorafenib	Atezo + Bev	Sorafenib		
	(n = 326)	(n = 159)	(n = 325)	(n = 158)		
Confirmed OPP (05% CI) %	30	11	35	14		
Commed OKK (55 / Cl), /	(25, 35)	(7, 17)	(30, 41)	(9, 20)		
CR, n (%)	25 (8)	1 (< 1)	39 (12)	4 (3)		
PR, n (%)	72 (22)	17 (11)	76 (23)	18 (11)		
SD, n (%)	144 (44)	69 (43)	121 (37)	65 (41)		
DCR, n (%)	241 (74)	87 (55)	236 (73)	87 (55)		
PD, n (%)	63 (19)	40 (25)	65 (20)	40 (25)		
Ongoing response, n (%)	54 (56)	5 (28)	58 (50)	6 (27)		
Median DOR (95% CI), mo ^b	18.1 (14.6, NE)	14.9 (4.9, 17.0)	16.3 (13.1, 21.4)	12.6 (6.1, 17.7)		

Clinical cutoff: August 31, 2020; median follow-up: 15.6 mo. DCR, disease control rate.

^a Only patients with measurable disease at baseline were included in the analysis of ORR.

^b Only confirmed responders were included in the analysis of ORR and DOR.

Cheng AL J Hep 2022

TRAEs: ≥ 10% any grade in either arm

Atezo + Bev (n = 329)

Sorafenib (n = 156)

Finn et al , N Engl J Med 2020.

HIMALAYA study design

HIMALAYA was an open-label, multicenter, global, Phase 3 trial

*Treatment continued until disease progression. Patients with progressive disease who, in the investigator's opinion, continued to benefit from treatment and met the criteria for treatment in the setting of progressive disease could continue treatment. [†]The T75+D arm was closed following a preplanned analysis of a Phase 2 study. Patients randomized to this arm (n=153) could continue treatment following arm closure. Results from this arm are not reported in this presentation.

BID, twice a day; EGD, esophagogastroduodenoscopy; Q4W, every 4 weeks.

Primary objective: overall survival for T300+D vs sorafenib

Data cut-off: August 27, 2021. Median duration of follow-up was 33.18 (95% CI, 31.74–34.53) months for T300+D and 32.23 (95% CI, 30.42–33.71) months for sorafenib. CI, confidence interval; HR, hazard ratio; OS, overall survival; T300+D, tremelimumab 300 mg × 1 dose + durvalumab 1500 mg Q4W.

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Secondary objective: overall survival for durvalumab vs sorafenib

Data cut-off: August 27, 2021. Median duration of follow-up was 32.56 (95% CI, 31.57–33.71) months for durvalumab and 32.23 (95% CI, 30.42–33.71) months for sorafenib. CI, confidence interval; HR, hazard ratio; NI, noninferiority; OS, overall survival.

Ghassan K Abou-Alfa, MD, MBA NEJM Evidence 2022

Progression-free survival

Ghassan K Abou-Alfa, MD, MBA NEJM Evidence 2022

CI, confidence interval; DCO, data cutoff; HR, hazard ratio; PFS, progression-free survival; T300+D, tremelimumab 300 mg × 1 dose + durvalumab 1500 mg Q4W; TTP, time to progression.

*Versus sorafenib. [†]Percent calculated from total patients in the safety analysis set: T300+D, N=388; durvalumab, N=388, sorafenib, n=374.

Tumor response

	T300+D (n=393)	Durvalumab (n=389)	Sorafenib (n=389)
ORR,* n (%)	79 (20.1)	66 (17.0)	20 (5.1)
CR, n (%)	12 (3.1)	6 (1.5)	0
PR, n (%)	67 (17.0)	60 (15.4)	20 (5.1)
SD,† n (%)	157 (39.9)	147 (37.8)	216 (55.5)
PD, n (%)	157 (39.9)	176 (45.2)	153 (39.3)
DCR, %	60.1	54.8	60.7
Median DoR, [‡] months 25 th percentile 75 th percentile	22.34 8.54 NR	16.82 7.43 NR	18.43 6.51 25.99
Median TTR (95% CI), months	2.17 (1.84–3.98)	2.09 (1.87–3.98)	3.78 (1.89–8.44)
Remaining in response, [‡] % 6 months 12 months	82.3 65.8	81.8 57.8	78.9 63.2

*By investigator assessment according to RECIST v1.1. Responses are confirmed. [†]Defined as neither sufficient decrease in sum of diameters to qualify for PR nor sufficient increase to qualify for PD. [‡]Calculated using Kaplan-Meier technique.

CI, confidence interval; CR, complete response; DCR, disease control rate; DoR, duration of response; NR, not reached; ORR, objective response rate; PD, progressive disease; PR, partial response; RECIST v1.1, Response Evaluation Criteria in Solid Tumors version 1.1; SD, stable disease; T300+D, tremelimumab 300 mg × 1 dose + durvalumab 1500 mg Q4W; TTR, time to response.

Safety and tolerability

Event, n (%)	T300+D (n=388)	Durvalumab (n=388)	Sorafenib (n=374)
Any AE	378 (97.4)	345 (88.9)	357 (95.5)
Any TRAE*	294 (75.8)	202 (52.1)	317 (84.8)
Any grade 3/4 AE	196 (50.5)	144 (37.1)	196 (52.4)
Any grade 3/4 TRAE	100 (25.8)	50 (12.9)	138 (36.9)
Any serious TRAE	68 (17.5)	32 (8.2)	35 (9.4)
Any TRAE leading to death	9 (2.3) ⁺	0	3 (0.8) [‡]
Any TRAE leading to discontinuation	32 (8.2)	16 (4.1)	41 (11.0)

Includes AEs with onset or increase in severity on or after the date of the first dose through 90 days following the date of the last dose or the date of initiation of the first subsequent therapy.

*Treatment-related was as assessed by investigator. [†]Nervous system disorder (n=1), acute respiratory distress syndrome (n=1), hepatitis (n=1), myocarditis (n=1), immune-mediated hepatitis (n=2), pneumonitis (n=1), hepatic failure (n=1), myocarditis (n=1). [‡]Hematuria (n=1), cerebral hematoma (n=1), hepatic failure (n=1).

AE, adverse event; SMQ, Standardized MedDRA Query; T300+D, tremelimumab 300 mg × 1 dose + durvalumab 1500 mg Q4W; TRAE, treatment-related adverse event.

Immune-mediated adverse events

Event, n (%)		T300+D	(n=388)		Durvalumab (n=388)			
	All grades	Grade 3 or 4	Received high-dose steroids	Leading to discontinuation	All grades	Grade 3 or 4	Received high-dose steroids	Leading to discontinuation
Patients with immune- mediated event	139 (35.8)	49 (12.6)	78 (20.1)	22 (5.7)	64 (16.5)	25 (6.4)	37 (9.5)	10 (2.6)
Hepatic events	29 (7.5)	16 (4.1)	29 (7.5)	9 (2.3)	26 (6.7)	17 (4.4)	25 (6.4)	5 (1.3)
Diarrhea/colitis	23 (5.9)	14 (3.6)	20 (5.2)	5 (1.3)	3 (0.8)	1 (0.3)	2 (0.5)	1 (0.3)
Dermatitis/rash	19 (4.9)	7 (1.8)	12 (3.1)	2 (0.5)	3 (0.8)	1 (0.3)	3 (0.8)	1 (0.3)
Pancreatic events	9 (2.3)	7 (1.8)	7 (1.8)	0	2 (0.5)	1 (0.3)	2 (0.5)	0
Adrenal insufficiency	6 (1.5)	1 (0.3)	1 (0.3)	0	6 (1.5)	3 (0.8)	3 (0.8)	0
Hyperthyroid events	18 (4.6)	1 (0.3)	2 (0.5)	0	4 (1.0)	0	0	0
Hypothyroid events	42 (10.8)	0	1 (0.3)	0	19 (4.9)	0	0	0
Pneumonitis	5 (1.3)	0	4 (1.0)	1 (0.3)	3 (0.8)	1 (0.3)	3 (0.8)	2 (0.5)
Renal events	4 (1.0)	2 (0.5)	3 (0.8)	2 (0.5)	0	0	0	0

Includes adverse events with onset or increase in severity on or after the date of the first dose through 90 days following the date of the last dose or the date of initiation of the first subsequent therapy. Patients may have had >1 event. Events include those that occurred in ≥1% of patients in either treatment arm.

T300+D, tremelimumab 300 mg \times 1 dose + durvalumab 1500 mg Q4W.

RATIONALE-301: Study Design

Randomized, open-label, multicenter, multiregional phase 3 study

Primary endpoint: OS in the ITT population

Key secondary endpoints: ORR, PFS, and DoR by BIRC per RECIST v1.1, and safety

Stratification factors: Macrovascular invasion (present vs absent), extrahepatic spread (present vs absent), ECOG PS (0 vs 1), etiology (HCV vs other^a), geography (Asia [excluding Japan], vs Japan vs rest of world)

^aIncludes HBV. Abbreviations: BCLC, Barcelona Clinic Liver Cancer; BID, twice daily; BIRC, blinded independent review committee; DoR, duration of response; ECOG PS, European Cooperative Oncology Group performance status; HBV, hepatitis B virus; HCC, hepatocellular carcinoma; HCV, hepatitis C virus; ITT, intent-to-treat; IV, intravenous; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PO, oral; Q3W, once every 3 weeks; RECIST, Response Evaluation Criteria In Solid Tumors.

.

Abstract LBA36

Masatoshi Kudo

RATIONALE-301: Overall Survival

Tislelizumab demonstrated OS noninferiority^a vs sorafenib; OS superiority vs sorafenib was not met

Data cutoff: July 11, 2022. OS was assessed in the ITT population. ^aPrespecified boundary of NI: upper bound of 95.003% CI of stratified HR <1.08; pre-specified boundary of superiority: one-sided P value <0.0223 (approximate HR <0.8352). ^bHR was based on a Cox proportional hazard model including treatment as a covariate, geography (Asia [including Japan] vs rest of world [EU/US]), macrovascular invasion and/or extrahepatic spread (present vs absent), etiology (HCV vs other), and ECOG PS (0 vs 1) as stratification factors. ^cOne-sided stratified log-rank test. Abbreviations: CI, confidence interval; ECOG PS, European Cooperative Oncology Group performance status; HCV, hepatitis C virus; HR, hazard ratio; ITT, intent-to-treat; NI, non-inferiority; OS, overall survival.

Masatoshi Kudo

RATIONALE-301: Overall Response Rate by IRC

Tislelizumab was associated with a higher ORR and more durable responses vs sorafenib

Data cutoff: July 11, 2022. ORR was assessed in the ITT population. ^aConfirmed responses; ^bPatients with no postbaseline tumor assessment (not assessable) or a nonevaluable tumor assessment. ^cPatients were assessed as non-CR/non-PD if the IRC was not able to identify the target lesions at screening. Patients with no target lesions were evaluated based on the assessment of nontarget lesions or the presence of new lesions. ^dPatients who had PD or died were excluded from this analysis. Abbreviations: CI, confidence interval; CR, complete response; DoR, duration of response; IRC, independent review committee; ITT, intent-to-treat; NE, not evaluable; ORR, objective response rate; PD, progressive disease; PR, partial response; SD, stable disease.

PARIS ESMO

Abstract LBA36

Masatoshi Kudo

RATIONALE-301: Progression-Free Survival by IRC

The median PFS was longer with sorafenib versus tislelizumab

Data cutoff: July 11, 2022. PFS was assessed in the ITT population. ^aHR was based on a Cox proportional hazard model including treatment as a covariate, geography (Asia [including Japan] vs rest of world [EU/US]), macrovascular invasion and/or extrahepatic spread (present vs absent), etiology (HCV vs other), and ECOG PS (0 vs 1) as stratification factors. Abbreviations: CI, confidence interval; ECOG PS, European Cooperative Oncology Group performance status; HCV, hepatitis C virus; HR, hazard ratio; IRC, independent review committee; ITT, intent-to-treat; PFS, progression-free survival.

RATIONALE-301: Safety Summary

TEAEs and treatment-related TEAEs at grade \geq 3 were less frequent with tislelizumab and treatment with tislelizumab led to fewer discontinuations/dose modifications vs sorafenib

Patients	Tislelizumab (n=338)	Sorafenib (n=324)
Safety, n (%)		
Any TEAE	325 (96.2)	324 (100.0)
Treatment-related	259 (76.6)	311 (96.0)
TEAE at ≥grade 3	163 (48.2)	212 (65.4)
Treatment-related	75 (22.2)	173 (53.4)
Serious TEAE	101 (29.9)	91 (28.1)
Treatment-related	40 (11.8)	33 (10.2)
TEAE leading to discontinuation	37 (10.9)	60 (18.5)
Treatment-related	21 (6.2)	33 (10.2)
TEAE leading to drug modification ^a	105 (31.1)	210 (64.8)
Treatment-related	68 (20.1)	187 (57.7)
TEAE leading to death	15 (4.4)	17 (5.2)
Treatment-related	3 (0.9)	2 (0.6)
Immune-mediated AEs	58 (17.2)	10 (3.1)
Immune-mediated AEs treated with systemic corticosteroids	43 (12.7)	10 (3.1)
Immune-mediated AEs in ≥5% of patients		
Hepatitis	18 (5.3)	1 (0.3)
Hypothyroidism	18 (5.3)	0 (0)
Treatment		
Median duration of treatment, months	4.1	2.7

Safety was assessed in the safety population. Data cutoff: July 11, 2022. ^aDrug modification included an interrupted/held or reduced dose. Abbreviations: AE, adverse event; TEAE, treatment-emergent adverse event.

IO-Phase-III studies in BTC: TOPAZ-1 & KEYNOTE-966

IO-Phase-III studies in BTC: TOPAZ-1 & KEYNOTE-966

TOPAZ-1: Durvalumab + GemCis Improved OS vs. GemCis



Arndt Vogel

Efficacy data 2ndary objectives: PFS and ORR



Relevant Subgroups: "RACE"

	Durvalumab + GemCis (n=341)	Placebo + GemCis (n=344)
Region, n (%)		
Asia	178 (52.2)	196 (57.0)
Rest of the world	163 (47.8)	148 (43.0)

Oh D-Y et al. Gastrointestinal Cancers Symposium 2022.



ORR MEDITREME (Chemo + Durva, all Asian): 73% ORR Topaz: 26%

Relevant Subgroups: "anatomic location"

			+ 0	Durvalumab SemCis (n=341)		Placebo + GemCis (n=344)
Primary tumor location at diagnosis, n (%) Intrahepatic cholangiocarcinoma Extrahepatic cholangiocarcinoma Gallbladder cancer			190 (55.7) 66 (19.4) 85 (24.9)		193 (56.1) 65 (18.9) 86 (25.0)	
Primary tum	or location	ICC ECC GBC 0.1		0.5	Hazard ratio (95% CI)	0.76 (0.58–0.98) 0.76 (0.49–1.19) 0.94 (0.65–1.37) 1.5 2
				Favors durvalu	mab + GemCis Favors p	lacebo + GemCis
Primary tumor site Intrahepatic Extrahepatic Hilar Gallbladder Ampulla Not specified	80 73 57 149 20 31	0.25 0.50 1. Cisplatin-Gemcitabine Better	0.57 (0.34-0.94) 0.73 (0.43-1.23) 0.59 (0.32-1.09) 0.61 (0.42-0.89) 0.62 (0.21-1.82) 0.98 (0.46-2.11) 00 2.00 Gencitabine Better		Oh D-Y et al. Ga	strointestinal Cancers Symposium 2022.

Valle et al, NEJM 2010

Adverse events profile

•	Durvalumab + GemCis (n=338)	Placebo + GemCis (n=342)	
Any grade 3/4 AE	256 (75.7)	266 (77.8)	
Any grade 3/4 TRAE	212 (62.7)	222 (64.9)	

No added Durvalumab-associated toxicity

Immune-mediated AEs

Event, n (%)	Durva + GemCi	lumab s (n=338)	Plac + GemCi	:ebo s (n=342)
	Any grade	Grade ≥3	Any grade	Grade ≥3
Any immune-mediated AE*	43 (12.7)	8 (2.4)	16 (4.7)	5 (1.5)
Hypothyroid events	20 (5.9)	0	5 (1.5)	0
Dermatitis/rash	12 (3.6)	3 (0.9)	1 (0.3)	0
Pneumonitis	3 (0.9)	1 (0.3)	2 (0.6)	1 (0.3)
Hepatic events	4 (1.2)	2 (0.6)	2 (0.6)	1 (0.3)
Adrenal insufficiency	4 (1.2)	0	1 (0.3)	0
Diarrhea/colitis	2 (0.6)	1 (0.3)	1 (0.3)	1 (0.3)
Hyperthyroid events	2 (0.6)	0	0	0
Type 1 diabetes mellitus	1 (0.3)	1 (0.3)	0	0
Pancreatic events	1 (0.3)	0	2 (0.6)	1 (0.3)
Hypophysitis	1 (0.3)	0	0	0
Thyroiditis	1 (0.3)	0	0	0
Renal events	0	0	2 (0.6)	0
Myositis	0	0	1 (0.3)	1 (0.3)
Other rare/miscellaneous [†]	1 (0.3)	1 (0.3)	1 (0.3)	1 (0.3)

irAE: 12.7%

9.5% Hypothyroid events or Dermatitis

Oh D-Y et al. Gastrointestinal Cancers Symposium 2022.

TOPAZ update @ ESMO 2022



Table 1. Best objective response

	Durvalumab + GemCis (N=341)	Placebo + GemCis (N=343)
Responders, ^{1,*} n (%)	91 (26.7)	64 (18.7)
Complete response,1 n (%)	7 (2.1)	2 (0.6)
Partial response, ¹ n (%)	84 (24.6)	62 (18.1)
Non-responders, n (%)	250 (73.3)	279 (81.3)
Stable disease, n (%)	200 (58.7)	220 (64.1)
Progressive disease, [†] n (%)	47 (13.8)	51 (14.9)
Not evaluable	3 (0.9)	8 (2.3)

*Confirmed response; †Death recorded within 13 weeks after randomisation is considered progression GemCis, gemcitabine and cisplatin

Do-Youn Oh et al, ESMO 2022 poster 56P



Responders: late separation, but strong long-term effect

SD: early & continuous separation

PD: no separation

Speculation: "initial 6 mo" of responses influenced

by "lifting" of selected SD pts

OS in subgroups by PD-L1 expression



Tumor Area Positivity (TAP) score using the Ventana PD-L1 (SP263) Assay



Evaluating Targeted Therapy in an Uncommon Cancer: Approaches



ABC10, ABC transporter 10; BRAF, v-raf murine sarcoma viral oncogene homolog B; FGFR2, fibroblast growth factor receptor 2; HER2, human epidermal growth factor 2; IDH, isocitrate dehydrogenase; MSI, microsatellite instability; NTRK, neurotrophic tyrosine receptor kinase; RET, rearranged during transfection. Valle JW, et al. Cancer Discov 2017;7(9):943–962.

Selective FGFR Inhibitors for FGFR2 Fusions or Rearrangement Positive Cholangiocarcinoma^{1–4}



ORR: 35.5% (updated: 37.0%) DCR: 82.2% (updated 82.4%) PFS (updated): 7.0 months ORR: 18.8% (updated: 23.1%) DCR: 83.3% (updated: 84.3%) PFS (updated): 7.3 months

ATP, adenosine triphosphate; DCR, disease control rate; FGFR, fibroblast growth factor receptor; ORR, overall response rate; PFS, progression-free survival. 1. Javle M, et al. J Clin Oncol 2018;36(3):276–282; 2. Javle M, et al. ASCO Gastrointestinal (GI) Cancers Symposium, 2021; 3. Abou-Alfa GK, et al. Lancet Oncol 2020;21(5):671–684; 4. Abou-Alfa GK et al. ASCO 2021;Abstract 4086.

Courtesy of Lipika Goyal, MD, Mphil