

OUR WEBINAR WILL BEGIN SHORTLY





TODAY'S WEBINAR



14 QUESTIONS

Ask a question in the panel on the right side of your screen

02 WEBINAR ARCHIVE

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13 TWEET ALONG!

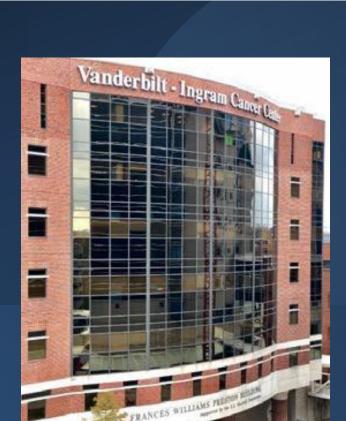
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Colorectal Cancer Updates From ASCO GI 2023

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February 6, 2023

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Discussion Points

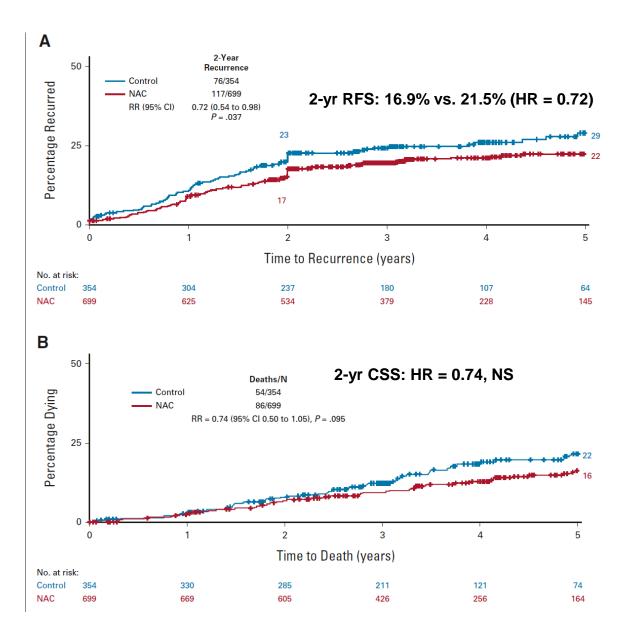
- Neoadjuvant MSI-S Colon CA
- Rectal Cancer
- Metastatic CRC
 - Rare subsets
 - BRAF MT
 - HER-2 Amplification
 - KRAS G12C
- The role of ctDNA

Neoadjuvant Chemotherapy in Stage III MSI-S Colon Ca

Preoperative Chemotherapy for Operable Colon Cancer: Mature Results of an International Randomized Controlled Trial

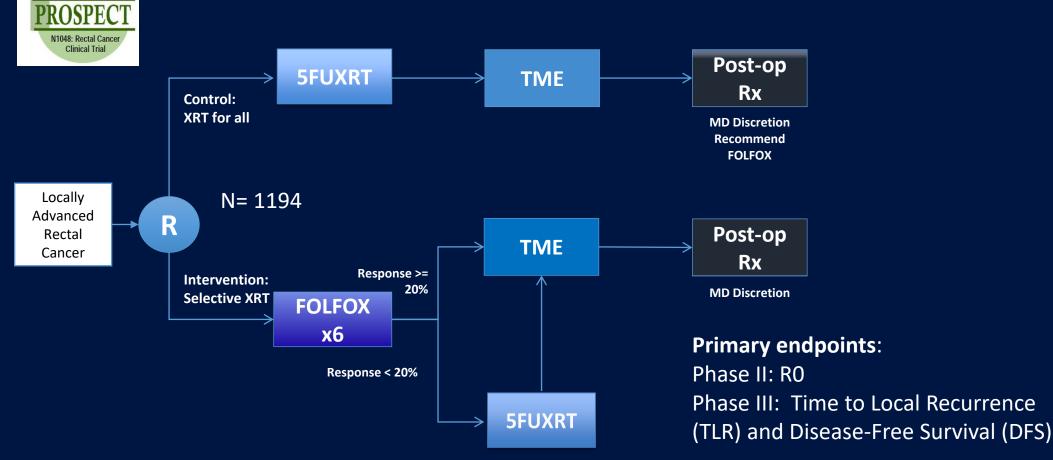
Dion Morton, MD¹; Matthew Seymour, MD²; Laura Magill, PhD³; Kelly Handley, PhD³; James Glasbey, MD¹; Bengt Glimelius, MD⁴; Andy Palmer³; Jenny Seligmann, MD²; Søren Laurberg, MD⁵; Keigo Murakami, MD⁶; Nick West, MD⁶; Philip Quirke, FMedSci⁶; and Richard Gray, MSc⁻; on behalf of the FOxTROT Collaborative Group

- N=1038 pts
- Majority were MSI-S
- Patients with radiologically staged T3-4, N0-2, M0 colon cancer
- Randomized to 6 weeks oxaliplatin-fluoropyrimidine preoperatively plus 18 postoperatively (NAC group) or SOC 6M (control group).
- Primary end point was residual disease or recurrence within 2 years



Locally Advanced Rectal Cancer

Protocol Schema for PROSPECT Trial: Omission of Radiation Therapy



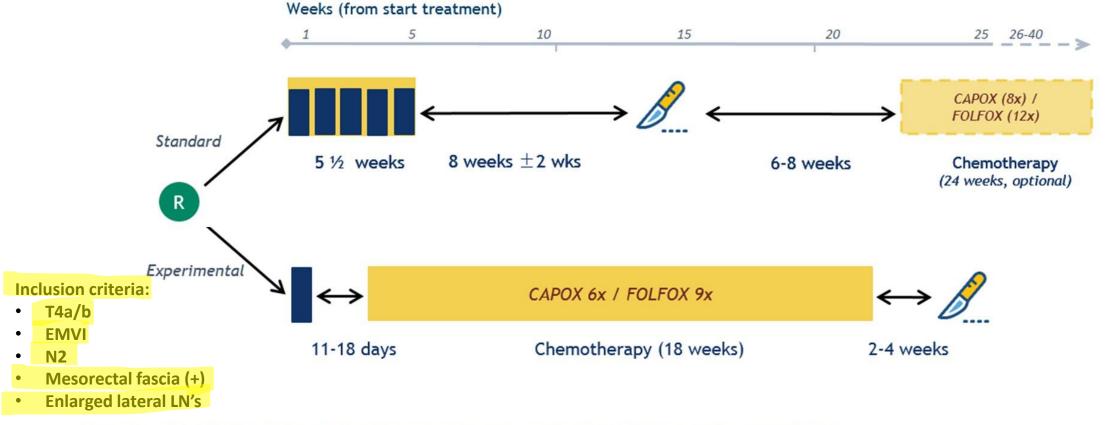
^{*}Accepting proposals for correlatives

Final data: 2023-2024?

PI: D. Schrag

Study design Rapido Study Design





Standard: week 1-6: 28x1.8 Gy or 25x2 Gy at working days combined with capecitabine b.i.d. 825 mg/m² (twice daily) day 1-33-38.

Experimental: week 1: 5x5 Gy, week 3-20: 6x CAPOX (capecitabine b.i.d.1000 mg/m² (twice daily) day 1-14 every 3 weeks orally, oxaliplatin 130 mg/m² day 1 every 3 weeks iv or alternatively 9x FOLFOX4 (folinic acid, fluorouracil and oxaliplatin all iv every 2 weeks)

High-risk criteria



		dard 450)	Experii (n=4	
High-risk criteria on MRI				
T4	137	(30.4)	147	(31.8)
N2	295	(65.6)	302	(65.4)
Enlarged lateral nodes	69	(15.3)	66	(14.3)
Extramural vascular invasion +	125	(27.8)	148	(32.0)
Mesorectal fascia +	271	(60.2)	285	(61.7)
Number of high-risk factors per patient				
1	168	(37.3)	158	(34.2)
2	146	(32.4)	160	(34.6)
3	96	(21.3)	98	(21.2)
4	29	(6.4)	39	(8.4)
5	11	(2.4)	7	(1.5)

Data is presented as n (%)

Pathology of resected rectal tumor

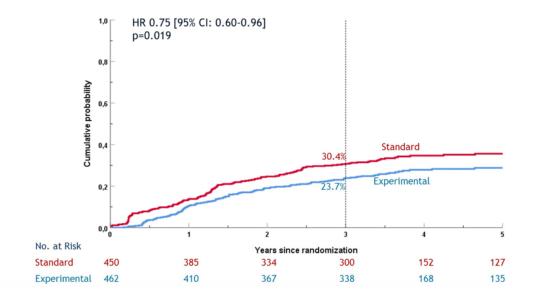


	Stand (n=3		Experi (n=4		p-value
Residual tumor					0.62
R0 > 1 mm	360	(90.5)	383	(90.5)	
R1 ≤ 1 mm	37	(9.3)	37	(8.7)	
R2	1	(0.3)	3	(0.7)	
Pathological complete response					<0.001
Yes	57	(14.3)	120	(28.4)	
No	341	(85.7)	303	(71.6)	

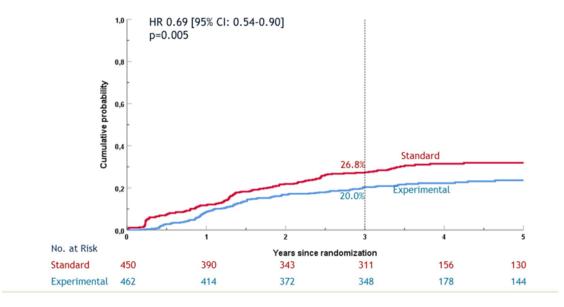
Data is presented as n (%)

Results from the RAPIDO Trial

Disease-related Treatment Failure

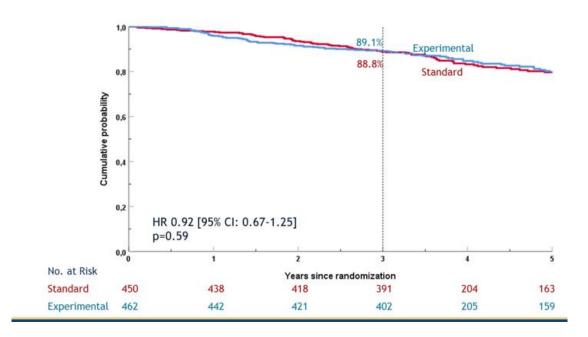


Distant metastases

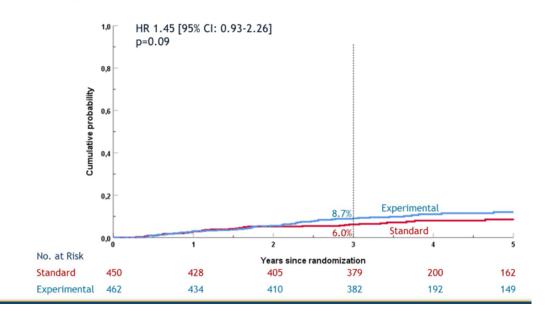


Results from the RAPIDO Trial

Overall Survival



Locoregional Failure



Median follow-up of 4.5 years

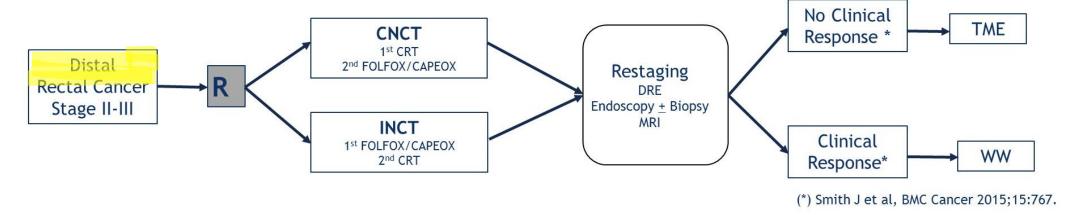
RAPIDO (Short Course) – 5-YR FOLLOW-UP



	RAPIDO	Standard of Care	P-value
Local regional failure (LRF)	12%	8%	0.07
Local regional recurrence (LRR)	10%	6%	0.027
Disease-related treatment failure (DrTF)	28%	34%	0.048
Distant Mets	23%	30%	0.011
Overall survival (OS)	82%	80%	0.50

Organ Preservation in Rectal Cancer Trial (OPRA)

Investigational Arm

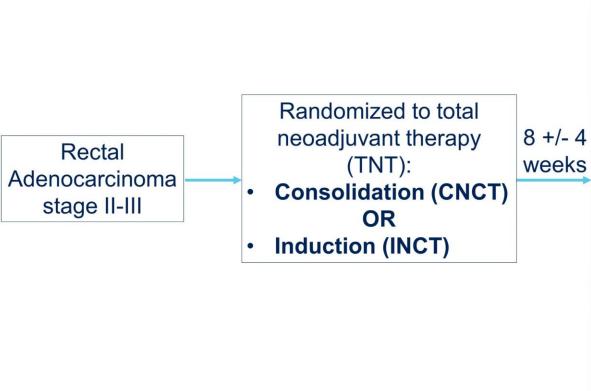


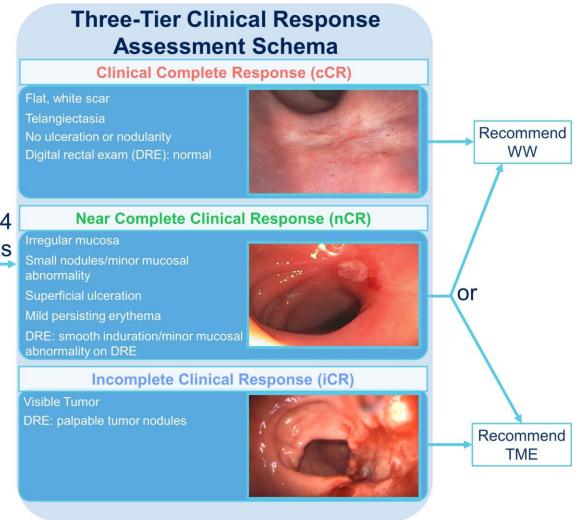
Sample Size Calculation

- Each group (CNCT and INCT) was designed as a single-stage study
- Primary Endpoint: DFS
 - Not powered for a formal comparison between groups
 - 3-year DFS rates of **75%** (historical) vs alternative of **85%** (investigational)
 - Assume 85% power and two-sided type 1 error of 5%
 - Initial target accrual: 202 patients (101 in each groups)
 - 10% attrition/ 222 total accrual

Garcia-Aguilar et al: JCO 2022

Methods



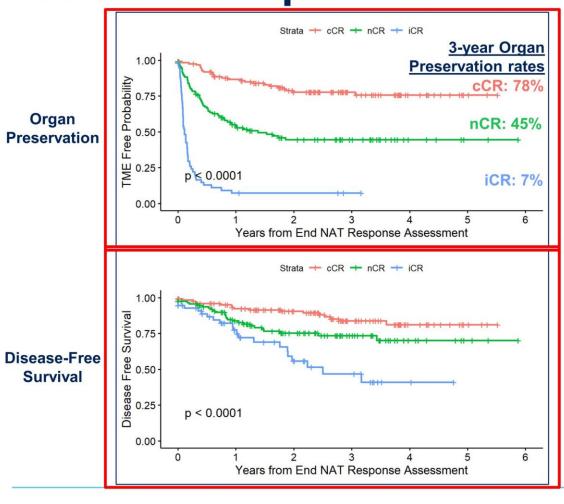


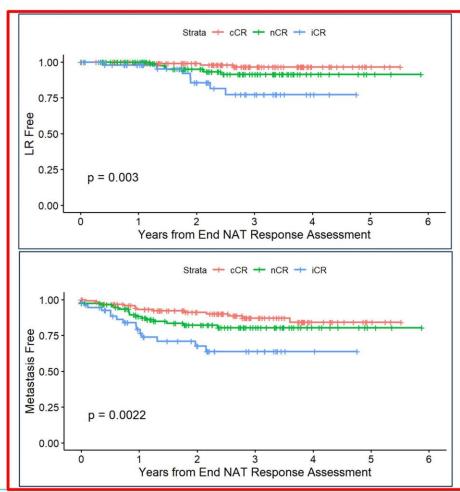
Presented By: Thompson
Abstract #3509

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Organ Preservation and Survival Outcomes by Clinical Response





Local Recurrence-Free Survival

> Metastasis-Free Survival

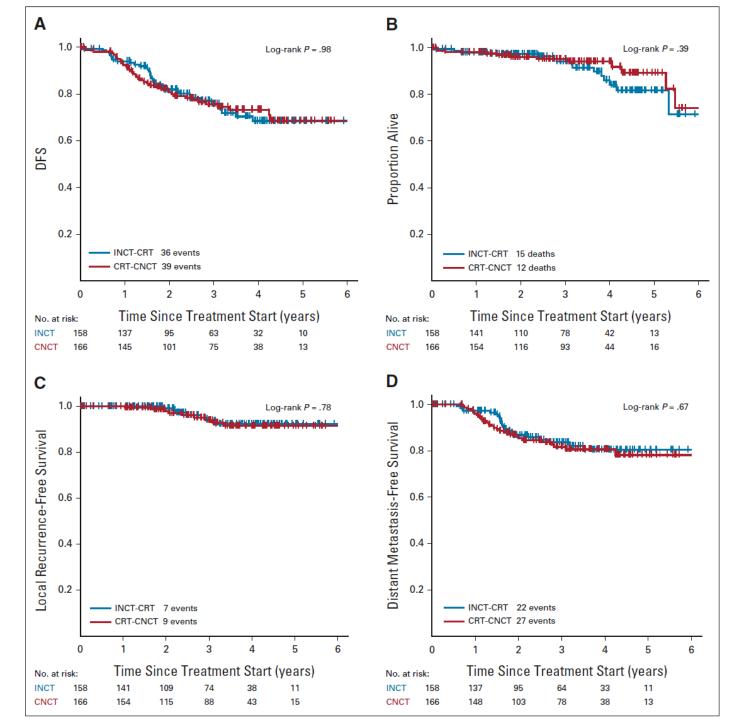
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Abstract #3509

#ASCO21

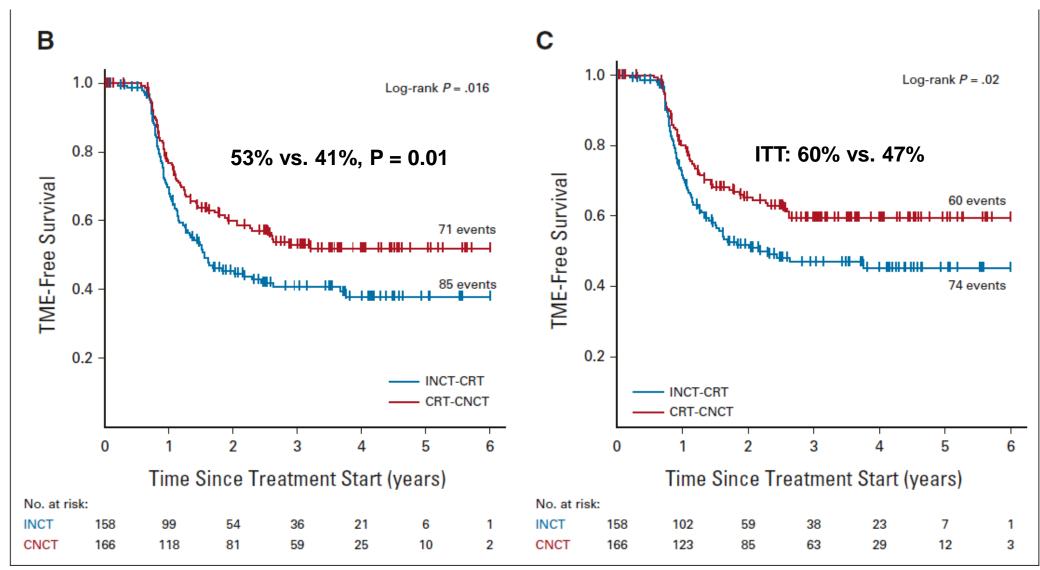
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Results of OPRA (Median follow-up = 3 yrs)



OPRA: 3-yr TME-Free Survival and ITT



The Janus Rectal Cancer Study: A Randomized Phase II Trial

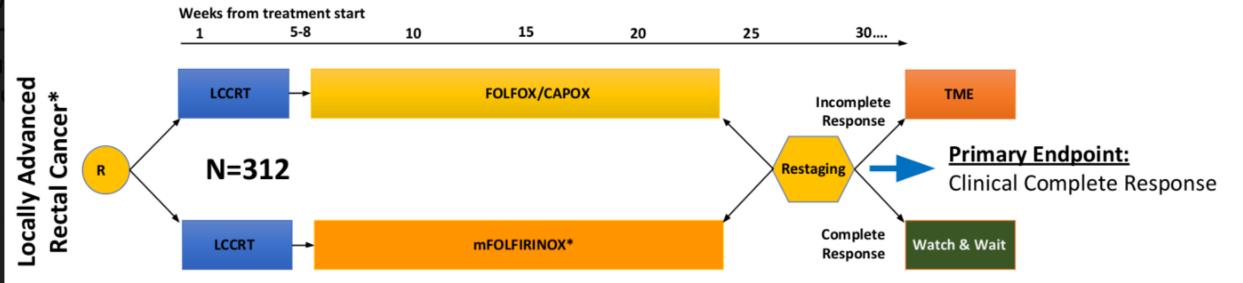
A022104 2 An Alliance, NRG & SWOG Study

Opened: 9 Nov 2022!









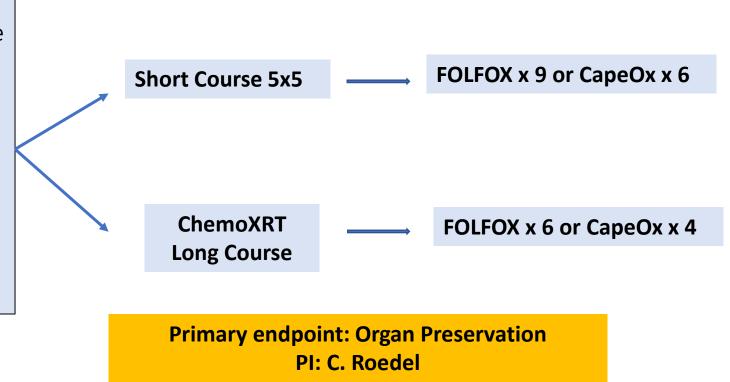
PI's: J. Smith, A. Dasari, W. Hall

Schema Legend: Randomization = R; LCCRT = long-course chemoradiation; Restaging determination = endoscopy, MRI and clinical exam 8-12 weeks post-completion of assigned TNT regimen * <=12cm, cT4N0, anyT, N+; T3N0 that would require APR or coloanal anastomosis

Short vs. Long-Course RT w/Organ Preservation for High-Risk Rectal Cancer Patients (ACO/ARO/AIO-18.1)

- •Any cT3 < 6 cm
- •cT3c/d in the middle third of the rectum (≥ 6-12 cm) with EMVI > 5 mm (>cT3b)
- •cT3 with clear cN+
- •cT4 tumors
- •N+
- •mrCRM+ (< 1mm)
- Extramural venous invasion (EMVI+)

N = 712





Updates on MCRC

SUNLIGHT study design

• An open-label, randomized, phase 3 study in patients with refractory mCRC (NCT04737187)

FTD/TPI p.o. 35 mg/m² BID **Patients** days 1-5 and 8-12; every 28 days Histologically confirmed mCRC Bevacizumab 5 mg/kg IV · Two prior treatment regimens^a Follow-up every 8 weeks for days 1 and 15; every 28 days · Disease progression or radiologic progression and/or intolerance survival status Known RAS status FTD/TPI p.o. 35 mg/m² BID • ECOG PS 0-1 days 1-5 and 8-12; every 28 days Stratification factors: **Primary endpoint:** OS in full analysis set Statistical considerations: Geographic region (North America, Secondary endpoints: · Sample size: 490 (245 per arm) European Union, or rest of the world) DCR Expected OS HR: 0.70 (30% reduction in Time since diagnosis of first ORR risk of death) with 90% power metastasis (<18 or ≥18 months) Safety profile · Required OS events: 331 RAS status (wild-type or mutant) QoL (time to deterioration) · No planned interim analysis

^a Prior treatment must have included a fluoropyrimidine, irinotecan, oxaliplatin, an anti-VEGF monoclonal antibody (not necessarily bevacizumab), and/or an anti-EGFR monoclonal antibody for patients with *RAS* wild-type and could have included (neo)adjuvant chemotherapy if disease had recurred during treatment or within 6 months of the last administration of (neo)adjuvant therapy. BID, twice daily; DCR, disease control rate; ECOG PS, Eastern Cooperative Oncology Group performance status; EFGR, epidermal growth factor receptor; FTD/TPI, trifluridine/tipiracil; HR, hazard ratio; IV, intravenous; mCRC, metastatic colorectal cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; p.o., orally; QoL, quality of life; R, randomization; VEGF, vascular endothelial growth factor.





PRESENTED BY: Prof. Josep Tabernero



Key baseline characteristics

		FTD/TPI plus bevacizumab	FTD/TPI
Characteristic		(n = 246)	(n = 246)
Age	Median (range), years	62 (20–84)	64 (24–90)
	<65 years, n (%)	146 (59)	129 (52)
	≥65 years, n (%)	100 (41)	117 (48)
Sex, n (%)	Male	122 (50)	134 (55)
Region	European Union	158 (64)	157 (64)
	North America	8 (3)	8 (3)
	Rest of the world	80 (33)	81 (33)
Primary tumor localization, n (%)	Right	62 (25)	77 (31)
	Left	184 (75)	169 (69)
Time from diagnosis of first metastasis to	<18 months	104 (42)	105 (43)
randomization, ^a n (%)	≥18 months	142 (58)	141 (57)
RAS status, ^a n (%)	Mutant	171 (70)	170 (69)
	Wild-type	75 (31)	76 (31)
Prior treatment with bevacizumab, n (%)	No	68 (28)	70 (29)
	Yes	178 (72)	177 (72)
ECOG PS, n (%)	0	119 (48)	106 (43)
	1	127 (52)	139 (57)
	2	0	1 (0.4) ^b

^a As documented in the Interactive Web Response System set for randomization. ^b Patient had an ECOG PS of 1 at randomization but was assessed as having an ECOG PS of 2 on day 1, cycle 1. ECOG PS, Eastern Cooperative Oncology Group performance status; FTD/TPI, trifluridine/tipiracil.

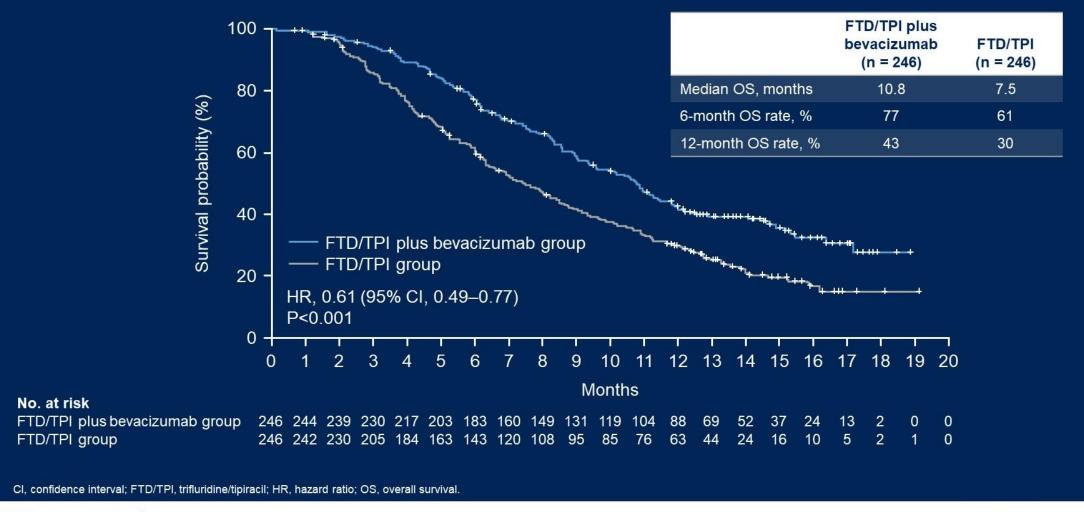




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OS in full analysis set (primary endpoint)



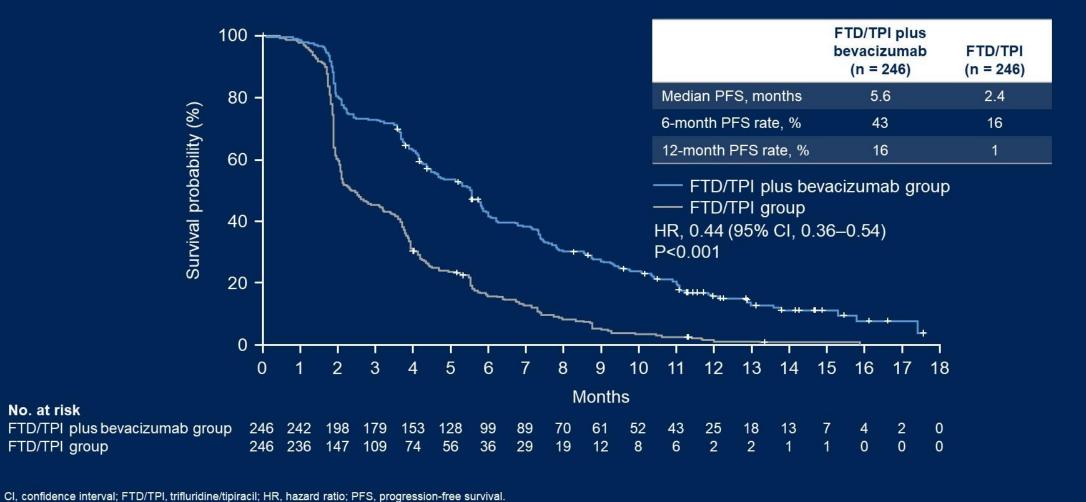
ASCO Gastrointestinal Cancers Symposium



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PFS in full analysis set



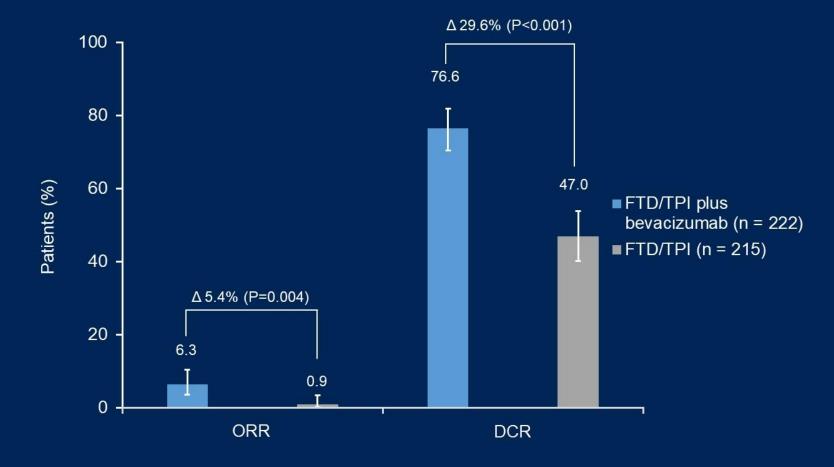




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ORR and DCR in patients evaluable for tumor response



DCR, disease control rate; FTD/TPI, trifluridine/tipiracil; ORR, objective response rate.





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TEAEs in ≥20% of patients

	FTD/TPI plus bevacizumab (n = 246)		FTD/TPI (n = 246)	
TEAE, n (%)	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4
Neutropenia	153 (62)	106 (43)	126 (51)	79 (32)
Nausea	91 (37)	4 (2)	67 (27)	4 (2)
Anemia	71 (29)	15 (6)	78 (32)	27 (11)
Asthenia	60 (24)	10 (4)	55 (22)	10 (4)
Fatigue	53 (22)	3 (1)	40 (16)	9 (4)
Diarrhea	51 (21)	2 (1)	46 (19)	6 (2)
Decreased appetite	50 (20)	2 (1)	38 (15)	3 (1)

Hypertension (10% vs 2%), nausea, and neutropenia were more common in the combination group; there was one case of febrile neutropenia with FTD/TPI plus bevacizumab versus six with FTD/TPI

FTD/TPI, trifluridine/tipiracil; TEAE, treatment-emergent adverse event.





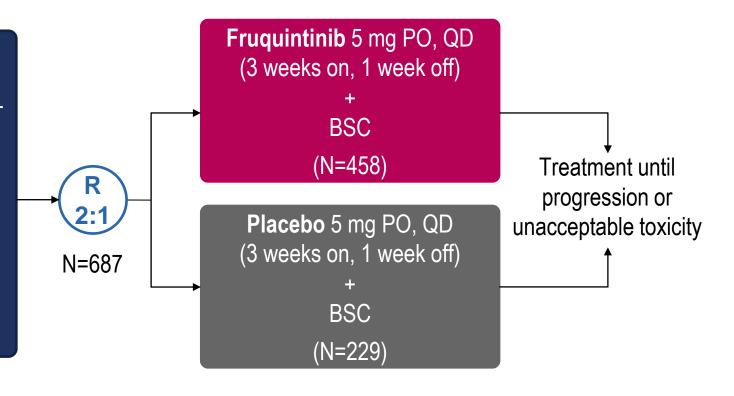
PRESENTED BY: Prof. Josep Tabernero



FRESCO-2 Study Design

Patient Eligibility

- Prior treatment with fluoropyrimidine-, oxaliplatinand irinotecan-based chemotherapy, an anti-VEGF biological therapy, and, if RAS wild type, an anti-EGFR therapy
- Progression on, or intolerance to, TAS-102 and/or regorafenib
- Prior treatment with an immune checkpoint inhibitor or BRAF inhibitor if indicated



Stratification Factors

- Prior therapy (TAS-102 vs regorafenib vs TAS-102 and regorafenib)
- RAS mutational status (wild-type vs mutant)
- Duration of metastatic disease (≤18 months vs >18 months)

Note: To ensure the patient population is reflective of clinical practice, the number of patients treated with prior regorafenib was limited to 344 patients (50%)

BSC, best supportive care. NCT04322539.



ITT Population

Patient and Disease Characteristics

Enrollment: Sep 2020 to Dec 2021

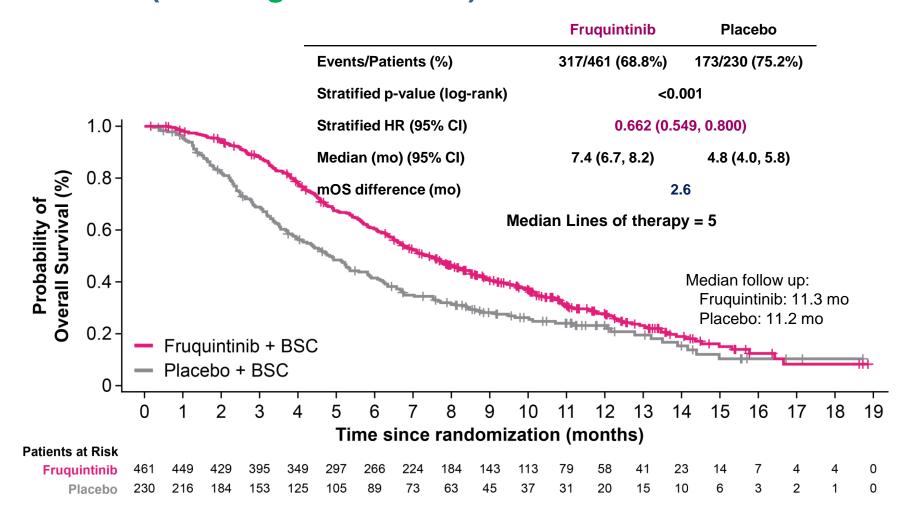
Data Cutoff: 24 June 2022

Characteristic, n (%)		Fruquintinib (N=461)	Placebo (N=230)
Age, y	Median (range) ≥ 65	64 (25, 82) 214 (46.4)	64 (30, 86) 111 (48.3)
Sex	Female Male	216 (46.9) 245 (53.1)	90 (39.1) 140 (60.9)
Region	North America Europe Asia Pacific	82 (17.8) 329 (71.4) 50 (10.8)	42 (18.3) 166 (72.2) 22 (9.6)
ECOG PS	0 1	196 (42.5) 265 (57.5)	102 (44.3) 128 (55.7)
Primary site at 1st diagnosis	Colon left Colon right Colon left and right Colon unknown Rectum only	192 (41.6) 97 (21.0) 4 (0.9) 25 (5.4) 143 (31.0)	92 (40.0) 53 (23.0) 2 (0.9) 13 (5.7) 70 (30.4)
Liver metastases	Yes	339 (73.5)	156 (67.8)

Characteristic, n (%)		Fruquintinib (N=461)	Placebo (N=230)
Duration of metastatic disease	≤ 18 mo	37 (8.0)	13 (5.7)
	> 18 mo	424 (92.0)	217 (94.3)
RAS status	WT	170 (36.9)	85 (37.0)
	Mutant	291 (63.1)	145 (63.0)
BRAF V600E mutation	No	401 (87.0)	198 (86.1)
	Yes	7 (1.5)	10 (4.3)
	Other/Unknown	5 (11.5)	22 (9.6)
Number of prior treatment lines in metastatic disease	Median (range)	5 (2, 16)	5 (2, 12)
	≤ 3	125 (27.1)	64 (27.8)
	> 3	336 (72.9)	166 (72.2)
Prior therapies	VEGF inhibitor	445 (96.5)	221 (96.1)
	EGFR inhibitor	180 (39.0)	88 (38.3)
Prior TAS-102 and/or regorafenib	TAS-102	240 (52.1)	121 (52.6)
	Regorafenib	40 (8.7)	18 (7.8)
	Both	181 (39.3)	91 (39.6)

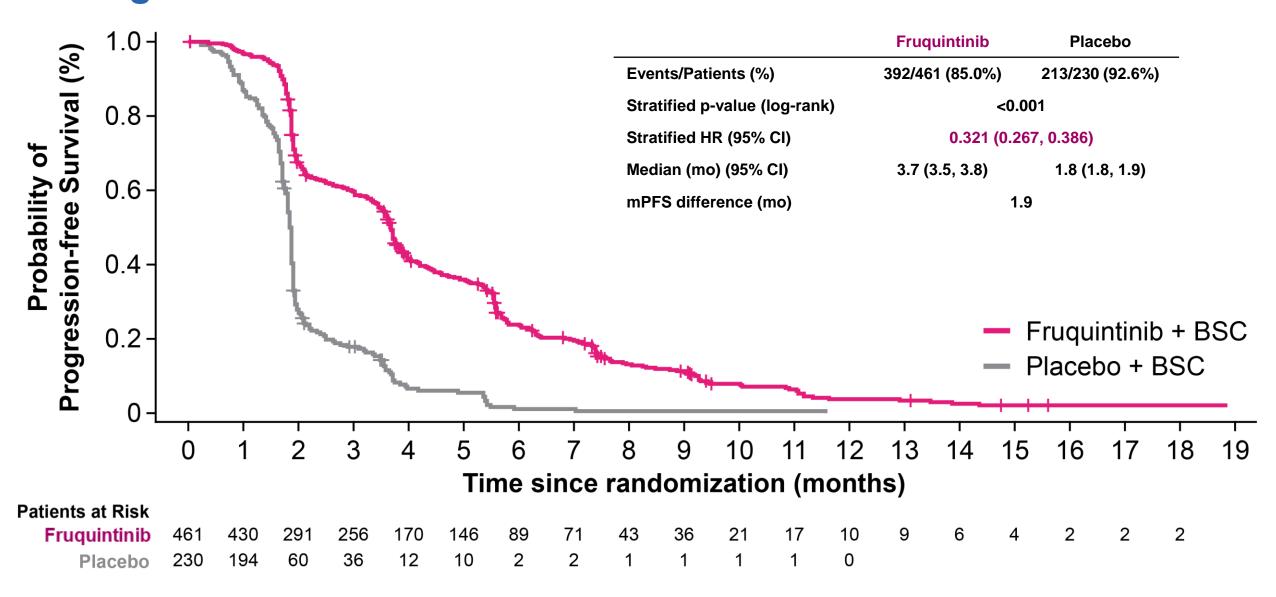
Practice-Changing Options in mCRC

FRESCO-2: A global phase 3 multiregional clinical trial evaluating the efficacy and safety of fruquintinib in patients with refractory metastatic colorectal cancer (*Pending FDA review*)





Progression-Free Survival



My Perspective

SUNLIGHT

- TAS-102, is a chemotherapeutic agent tested in the 3rd line setting
- Largely completed in the EU
- 24% of pts did <u>not</u> receive prior bevacizumab
- Could not be conducted in the US since most patients were already using continuation of bevacizumab
- Myelosuppression is the main side effect which was expected in both arms
- Likely will NOT change practice patterns in the US

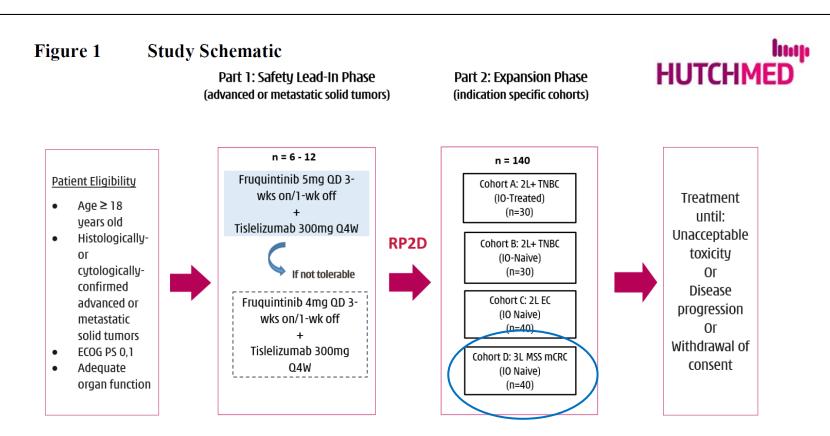
FRESCO-2

- Fruquintinib is an oral targeted agent not a "me too" since it <u>selectively</u> blocks VEGFR 1,2,and 3
- No chemotherapy involved
- International trial involving Asia, EU, Australia and the US
- Heavily pretreated setting (UP to median 5 lines)
 allowing patients to receive lonsurf and/or rego
 - >50% had received prior lonsurf
 - ~40% had received both lonsurf and rego
- More flexible agent use?
- 96% of patients had received bevacizumab
- Main side effects: Hypertension (class effect); 6 7% of hand-foot syndrome and asthenia

Clinical Study Protocol

AN OPEN-LABEL, PHASE 1b/2 STUDY TO EVALUATE THE SAFETY AND EFFICACY OF FRUQUINTINIB IN COMBINATION WITH TISLELIZUMAB IN PATIENTS WITH ADVANCED SOLID TUMORS

Phase II
Fruquintinib +
Tislelizumab in
MSI-S mCRC



4 sites: Vanderbilt-Ingram Cancer Center, MD Anderson Cancer Center, Mayo Clinic, and other (completed enrollment in < 3 months)

NCT04776148: Phase III Lenvatinib (MK-7902/E7080) + Pembrolizumab (MK-3475) Versus Standard of Care in Participants With Metastatic Colorectal Cancer (MK-7902-017/E7080-G000-325/LEAP-017) Final Results Pending

Eligibility:

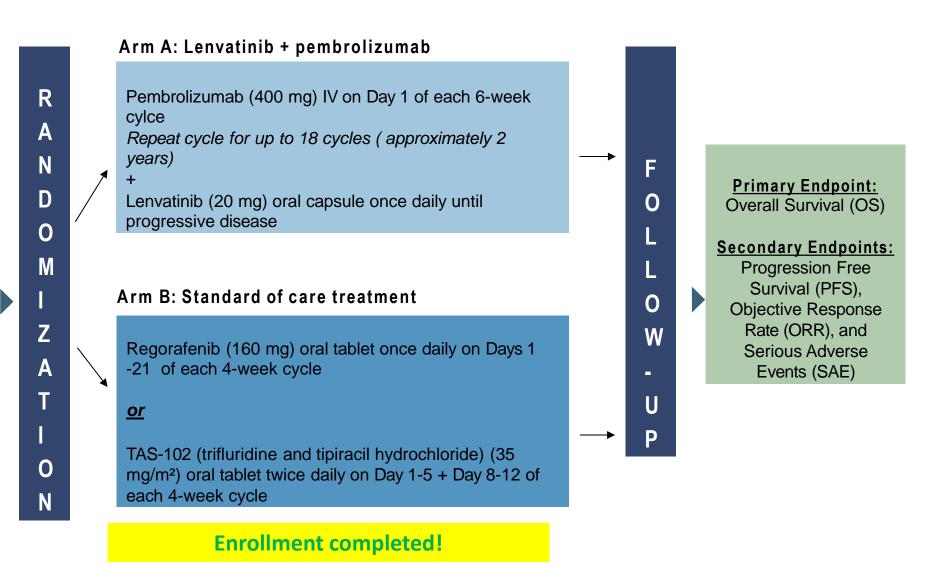
Unresectable and metastatic colorectal adenocarcinoma

Previously treated with disease progression <u>or</u> could not tolerate standard treatment

Must NOT be microsatellite instabilityhigh (MSI-H)/mismatch repair deficient (dMMR) by local testing

<u>No</u> presence of malabsorption or other gastrointestinal conditions

Accrual Goal N = 434



NCT05425940: Study of XL092 + Atezolizumab vs Regorafenib in Subjects With Metastatic Colorectal Cancer (STELLAR-303)

Eligibility:

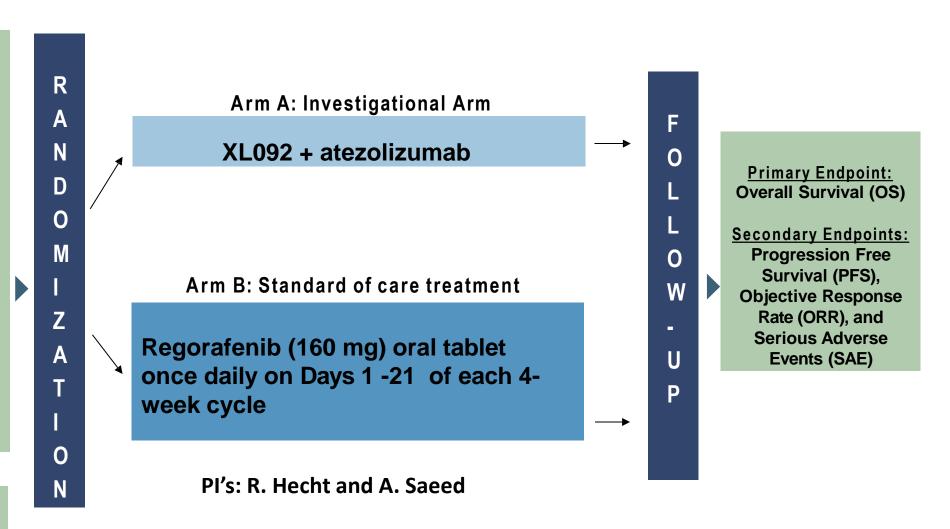
Unresectable and metastatic colorectal adenocarcinoma

Previously treated with disease progression <u>or</u> could not tolerate standard treatment

Must NOT be microsatellite instabilityhigh (MSI-H)/mismatch repair deficient (dMMR) by local testing

<u>No</u> presence of malabsorption or other gastrointestinal conditions

Accrual Goal N = 600



A PRAGMATIC RANDOMIZED PHASE III TRIAL EVALUATING TOTAL ABLATIVE THERAPY FOR PATIENTS WITH LIMITED METASTATIC COLORECTAL CANCER: EVALUATING RADIATION, ABLATION, AND SURGERY (ERASUR)

AO2011101

Newly Diagnosed Limited mCRC Staging Pre-registration

Systemic Therapy^a (16-24 weeks) Staging
Registration /
Randomization

Arm 1: SBRT ± Ablation ± Surgical Resection ± Institutional SOC Therapy^b

> Arm 2: Institutional SOC Therapy^b

PI's: Miller, Romesser, and Hitchcock

N = 364

- OS is primary endpoint
- There must be at least one other site of metastasis in addition to the liver
- Adjuvant must have been completed 12 months prior

NCI Approved/Pending Trials



cancer research group

Not for distribution

EA2222 - A Randomized Phase III Study of Systemic Therapy With or Without Hepatic Arterial Infusion for Unresectable Colorectal Liver Metastases: The PUMP Trial

Study Chair: Michael Lidsky, MD

Patient Eligibility

Adults, 18-80 years old

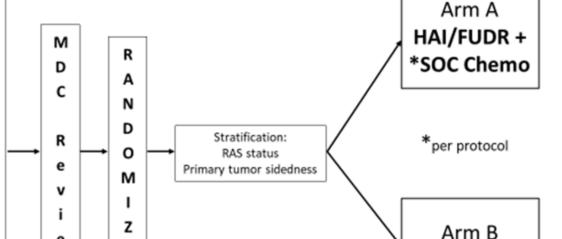
Persistently and technically unresectable liver-only metastatic CRC

(Allowed: Any calcified pulmonary nodule or \leq 5 pulmonary nodules \leq 6 mm and stable for \geq 3 months on chemotherapy)

Prior systemic chemotherapy

 $\geq 6 \leq 12$ cycles (if cycle = 14 days) OR $\geq 4 \leq 8$ cycles (if cycle = 21 days)

New CRLM < 12 months after completing adjuvant therapy for stage II-III CRC



*SOC Chemo

Primary endpoint = OS

Secondary endpoints: PFS, hPFS, ePFS, ORR, Conversion to resection, Toxicity

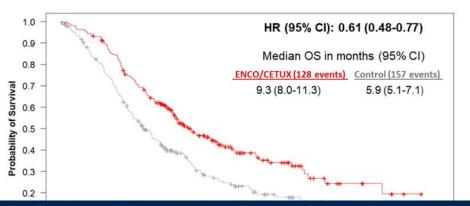
Correlatives – to improve patient selection and identify which patients may be at risk for short vs long term complications

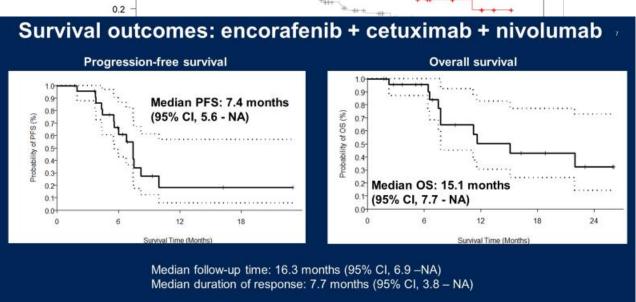
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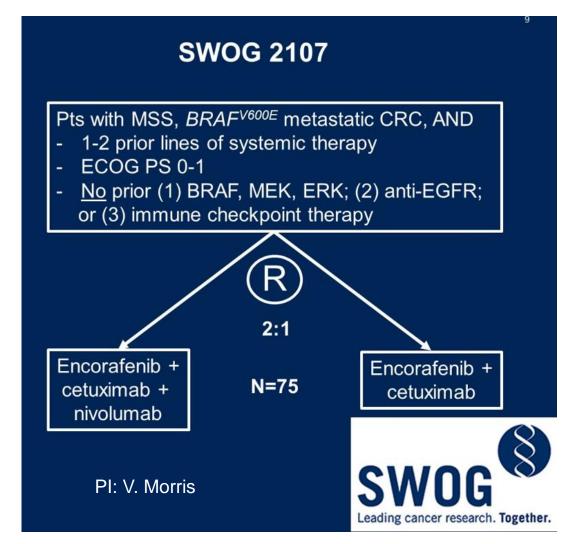
BRAF MT V600E MCRC

BRAF V600E MT Previously Treated MCRC





Encorafenib + cetuximab: median PFS 4.2 months (95% CI, 3.7-5.4), median OS 8.4 months (95% CI, 7.5-11.0)







Study Design

BREAKWATER (NCT04607421) is an ongoing, open-label, global, multicenter, randomized phase 3 study evaluating 1L EC ± chemotherapy vs SOC chemotherapy alone in participants with BRAF V600E-mutant mCRC

Safety Lead-In

Participants who have received ≤1 prior treatment for mCRC

Cohort 1 (n=30)

Encorafenib 300 mg QD + cetuximab 500 mg/m² Q2W + FOLFIRI Q2W in 28-day cycles

Cohort 2 (n=27)

Encorafenib 300 mg QD + cetuximab 500 mg/m² Q2W + mFOLFOX6 Q2W in 28-day cycles

Primary Endpoint

Safety (frequency of DLTs)

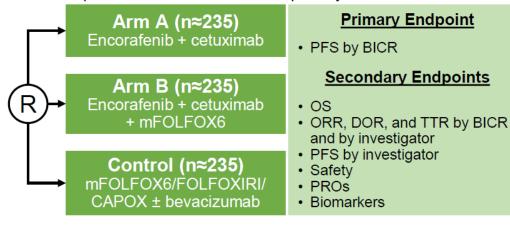
Secondary Endpoints

- Safety (AEs, dose interruptions/ modifications/discontinuations)
- PKs
- Antitumor activity by investigator (ORR, DOR, TTR, PFS, OS)

Inclusion Criteria Exclusion Criteria • BRAF V600E-mutant mCRC (blood or tumor tissue) • Prior treatment with BRAF or EGFR inhibitors or both oxaliplatin and irinotecan • ≤1 prior systemic treatment for mCRC • Symptomatic brain metastases • Evaluable disease (RECIST 1.1) • MSI-H or dMMR tumors^a • MSI-H or dMMR tumors^a

Phase 3

Participants who have not received prior systemic treatment for mCRC



Here we present an updated analysis from the BREAKWATER SLI, including updated safety and antitumor activity data by BICR, as well as preliminary biomarker data

Data cutoff: September 5, 2022.

^aUnless patient ineligible to receive immune checkpoint inhibitors due to pre-existing medical condition.

BICR, blinded independent central review; BM, bone marrow; DLT, dose-limiting toxicity; dMMR, deficient mismatch repair; EC, encorafenib + cetuximab; MSI-H, microsatellite instability-high; PK, pharmacokinetic; Q2W, every 2 weeks; QD, once daily; SLI, safety lead-in; SOC, standard of care.





Overview of Response by BICR

	1L		2L	
	EC + mFOLFOX6	EC + FOLFIRI	EC + mFOLFOX6	EC + FOLFIRI
Confirmed best overall response, n (%)	n=19	n=12	n=8	n=18
ORR, % (95% CI)	68.4 (46.0, 84.6)	75.0 (46.8, 91.1)	37.5 (13.7, 69.4)	44.4 (24.6, 66.3)
CR	1 (5.3)	2 (16.7)	0	1 (5.6) ^a
PR	12 (63.2)	7 (58.3)	3 (37.5)	7 (38.9)
SD	4 (21.1)	2 (16.7)	5 (62.5)	7 (38.9)
PD	1 (5.3)	0	0	0
Non-CR/non-PDb	0	1 (8.3)	0	2 (11.1)
Not evaluable ^c	1 (5.3)	0	0	1 (5.6)
Responders	n=13	n=9	n=3	n=8
mTTR, weeks (range)	6.9 (5.9–30.0)	7.0 (6.1–42.7)	6.9 (6.4–23.1)	13.0 (6.1–47.3)
mDOR, months (95% CI)	9.8 (6.9, NE)	12.4 (6.9, NE)	NE (5.6, NE)	9.9 (5.5, NE)
≥6 months, n (%)	7 (53.8)	6 (66.7)	1 (33.3)	4 (50.0)

Data cutoff: September 5, 2022.

^aThis participant with CR only had nontarget lesions at baseline. ^bParticipants with only nontarget lesions at baseline. ^cReasons included SD <6 weeks after treatment start date (1 patient in the EC + mFOLFOX6 cohort in the 1L setting) and early death (1 patient in the EC + FOLFIRI cohort in the 2L setting).

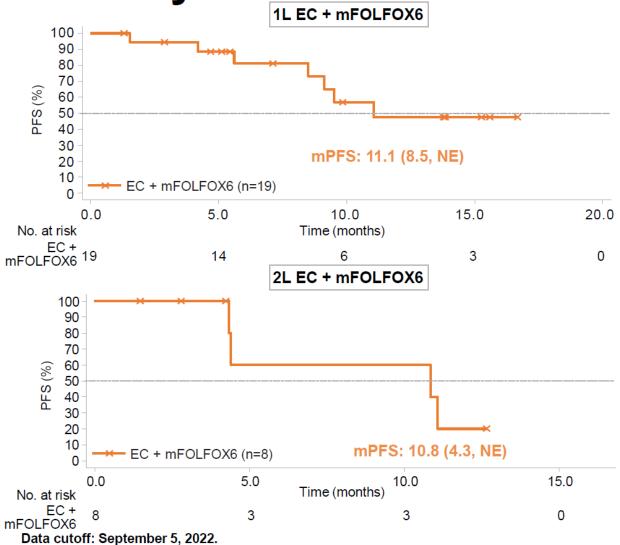
BICR, blinded independent central review; EC, encorafenib and cetuximab; NE, not estimable.

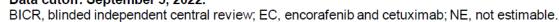






PFS by BICR

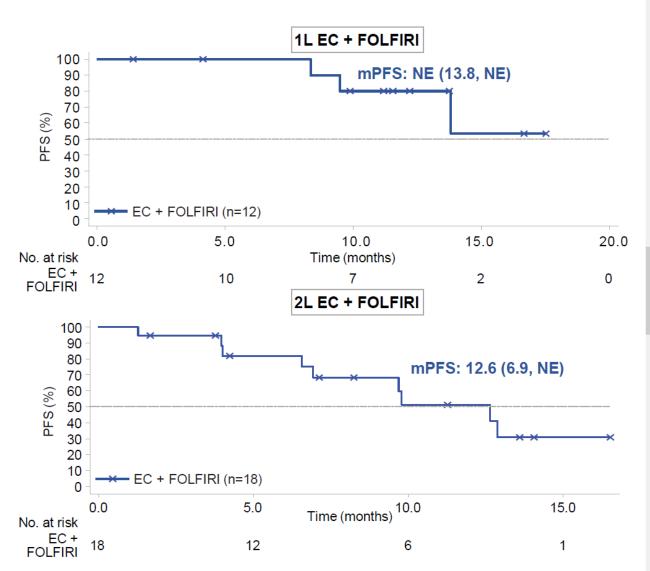




ASCO Gastrointestinal Cancers Symposium

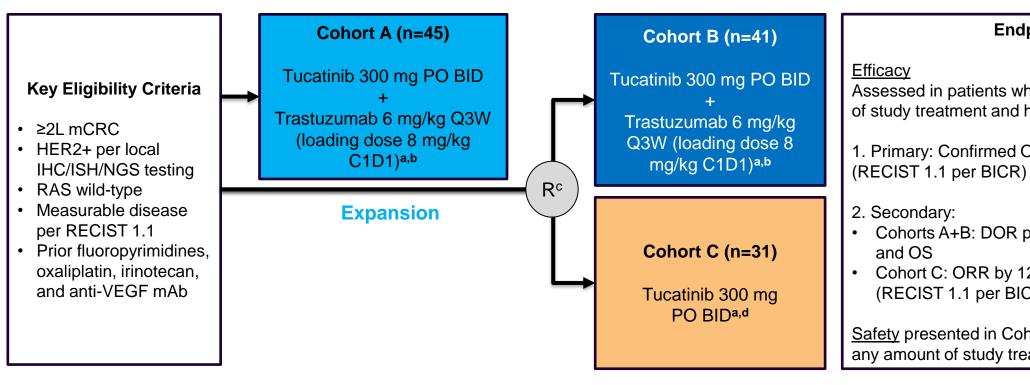
#GI23

PRESENTED BY: Scott Kopetz, MD, PhD



HER-2 Amplified MCRC

MOUNTAINEER: Global, Open-Label, Phase 2 Trial



Endpoints

Assessed in patients who received any amount of study treatment and had HER2+ tumorse

- 1. Primary: Confirmed ORR in Cohorts A+B
- Cohorts A+B: DOR per BICR, PFS per BICR,
- Cohort C: ORR by 12 weeks of treatment (RECIST 1.1 per BICR)

Safety presented in Cohorts A+B who received any amount of study treatment

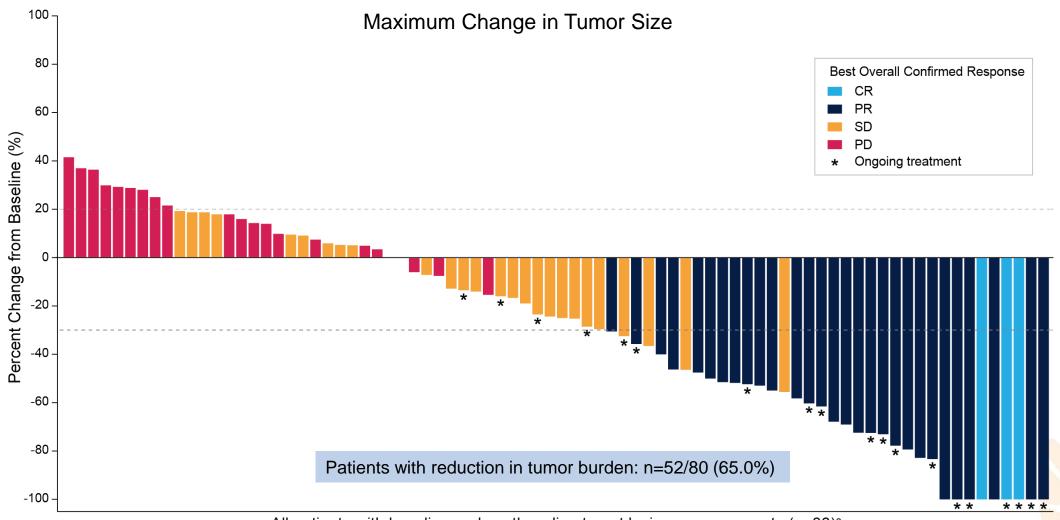
MOUNTAINEER began as a US Investigator-Sponsored Trial and initially consisted of a single cohort (Cohort A) and was expanded globally to include patients randomised to receive tucatinib + trastuzumab (Cohort B) or tucatinib monotherapy (Cohort C)

Data cut-off for current analysis, March 28, 2022

a Each treatment cycle is 21 days; b Patients remained on therapy until evidence of radiographic or clinical progression, unacceptable toxicity, withdrawal of consent, or study closure; c Stratification: Left sided tumor primary vs other; d Patients were allowed to cross over and receive tucatinib and trastuzumab if they experienced radiographic progression at any time point or if they had not achieved a PR or CR by week 12; e Patients had HER2+ tumors as defined by one or more protocol required local tests; IHC 3+ (n=46), amplification by ISH (n=36), or amplification by NGS (n=69)

2L+, second line and later; BICR, blinded independent central review; BID, twice a day; C1D1, cycle 1 day 1; CR, complete response; DOR, duration of response; HER2, human epidermal growth receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; mAb, monoclonal antibody; mCRC, metastatic colorectal cancer; NGS, next-generation sequencing; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PO, orally; Q3W, every 3 weeks; PR, partial response; R, randomisation; RAS, rat sarcoma virus; RECIST, Response Evaluation Criteria in Solid Tumors; US, United States; VEGF, vascular endothelial growth factor.

Tucatinib + Trastuzumab: Change in Tumor Size

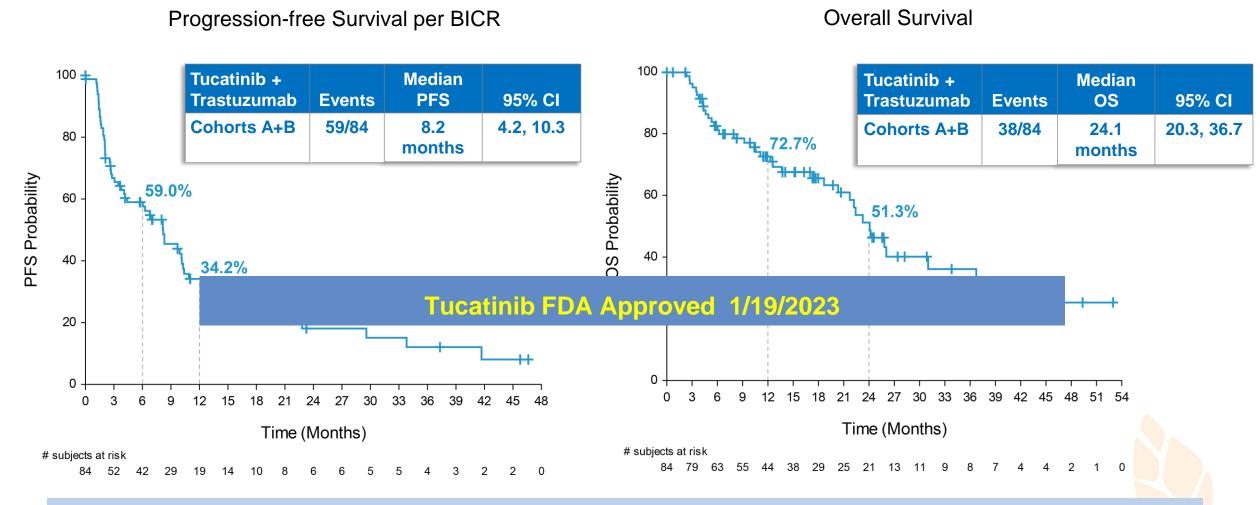


All patients with baseline and postbaseline target lesion measurements (n=80)^a

a Four patients who did not have baseline and/or post-baseline target lesion measurements are excluded CR, complete response; PD, progressive disease; PR, partial response; SD, stable disease.

Data cutoff: 28 Mar 2022

Tucatinib + Trastuzumab: PFS and OS

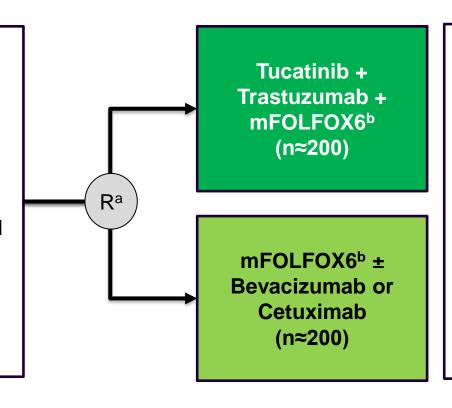


Median follow-up for Cohorts A+B was 20.7 months (IQR, 11.7, 39.0)

MOUNTAINEER-03: Global, Randomised, Open-Label, Phase 3 Trial

Key Eligibility Criteria

- HER2+ 1L mCRC assessed by central IHC/ISH testing
- RAS wild-type
- Measurable disease per RECIST 1.1
- ECOG Performance Status 0-1
- Treated, stable central nervous system metastases permitted



Endpoints

Primary
PFS per RECIST 1.1 (BICR)

Secondary^c

- OS
- Confirmed ORR per RECIST 1.1 (BICR)

a Stratification: Primary tumor sidedness, liver metastases; b Levoleucovorin may be given in place of leucovorin; c Alpha-controlled

KRAS G12C MCRC

CodeBreaK 101 Subprotocol H Study Design

Phase 1b, multicentre study*: Sotorasib + panitumumab in chemorefractory *KRAS G12C*-mutated mCRC

Screening/enrolment

Key eligibility criteria (Part 2 Cohort A)

- KRAS G12C-mutated mCRC, identified through molecular testing
- KRAS^{G12C} inhibitor-naive
- ≥1 prior treatment for advanced disease[†]
- Progressed on or after fluoropyrimidine, oxaliplatin, irinotecan, and an antiangiogenic agent

Part 1: Cohort A dose exploration[‡]

Sotorasib PO daily
+

Panitumumab 6 mg/kg

Part 2: Cohort A dose expansion (N=40)

Sotorasib: 960 mg PO daily

Panitumumab: 6 mg/kg IV Q2W

Treatment until disease progression, withdrawal of consent, or end of study

Primary endpoint: Safety/tolerability
Secondary endpoints: Anti-tumour efficacy (ORR, DCR, DOR, TTR, PFS per RECIST v1.1, and OS) and PK

DCR, disease control rate; DOR, duration of response; IV, intravenous; KRAS, Kirsten rat sarcoma; mCRC, metastatic colorectal cancer; ORR, objective response rate; OS, overall survival; Q2W, every 2 weeks; PFS, progression-free survival; PK, pharmacokinetics; PO, orally; RECIST, Response Evaluation Criteria in Solid Tumors; TTR, time to response.



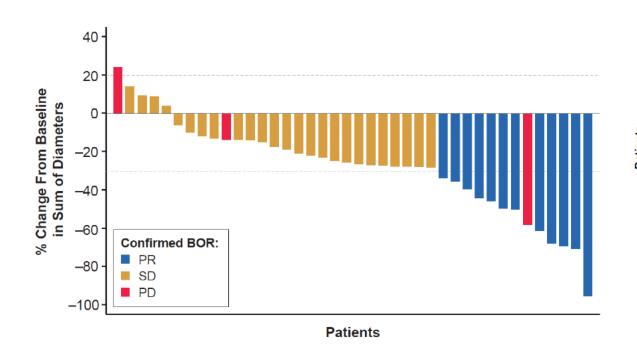
Yasutoshi Kuboki

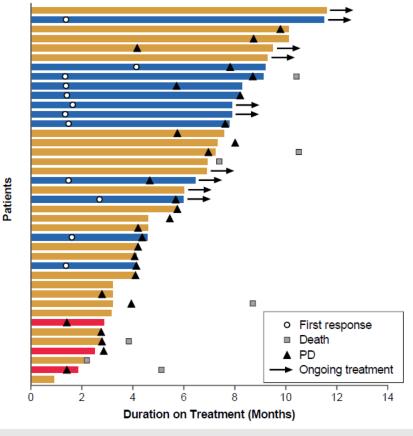
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^{*}NCT04185883: EudraCT 2020-004721-23.

[†]For patients with tumours known to be microsatellite instability high, prior checkpoint inhibitor therapy is required if clinically appropriate and locally available for that indication ‡Dose exploration is completed.

CodeBreak 101 Tumour Response





- Reduction in RECIST target lesions observed in 88% of patients
- Median (range) duration of treatment was 5.9 (0.5, 11.3) months, with 25% of patients remaining on treatment

Data cutoff: June 24, 2022.

BOR, best overall response; PD, progressive disease, PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumors; SD, stable disease.

KRYSTAL-1 (849-001) Phase 1b/2 CRC Cohorts Study Design

Key Eligibility Criteria

- CRC with a KRAS^{G12C} mutation^a
- Unresectable or metastatic disease
- Prior systemic treatment for metastatic disease
- No available treatment with curative intent or available standard of care

Phase 1b
CRC Combination

Adagrasib 600 mg BID^b + cetuximab^c (n=32) Phase 2 CRC Monotherapy

Adagrasib 600 mg BID^b (n=44)

Study Objectives

Phase 1b

- Primary endpoints: safety, RP2D, PK
- Secondary endpoints: ORR (RECIST 1.1), DOR, PFS, OS

Phase 2

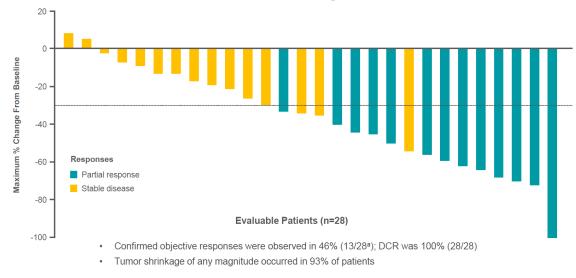
- Primary endpoint: ORR (RECIST 1.1)^d
- Secondary endpoints: safety, DOR, PFS, OS
- Previously reported data demonstrated clinical activity of adagrasib monotherapy and adagrasib + cetuximab in patients with previously treated KRAS^{G12C}-mutated CRC^{10,e}
- Here we report updated data for adagrasib 600 mg BID as monotherapy (Phase 2; median follow-up: 20.1 months) and in combination with cetuximab (Phase 1b; median follow-up: 17.5 months) in patients with previously treated KRAS^{G12C}-mutated CRC



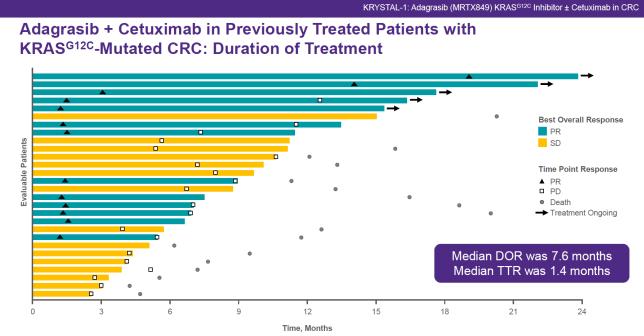
KRYSTAL-1: Updated Efficacy and Safety of Adagrasib (MRTX849) With or Without Cetuximab in Patients With mCRC with a KRASG12C MT

KRYSTAL-1: Adagrasib (MRTX849) KRASG12C Inhibitor ± Cetuximab in CRC

Adagrasib + Cetuximab in Previously Treated Patients with KRAS^{G12C}-Mutated CRC: Best Tumor Change From Baseline



aResponse per investigator assessment (n=28; four patients are not included due to no post-baseline assessment of target lesions)



Response outcomes per investigator assessment (n=28; four patients are not included due to no post-baseline assessment of target lesions)

Ongoing Phase I and III Trials: Amgen, Mirati and Eli-Lilly

Phase 3: Sotorasib + Panitumumab

Patients

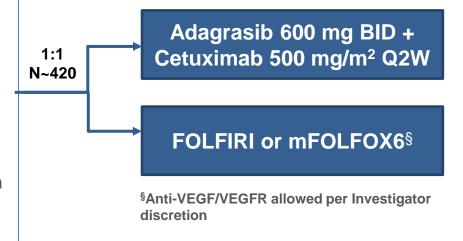
- > 1 prior line of treatment for mCRC
- KRAS G12C MT
- ECOG PS 0-2
- N=193
- *Not yet recruiting
 NCT05198934

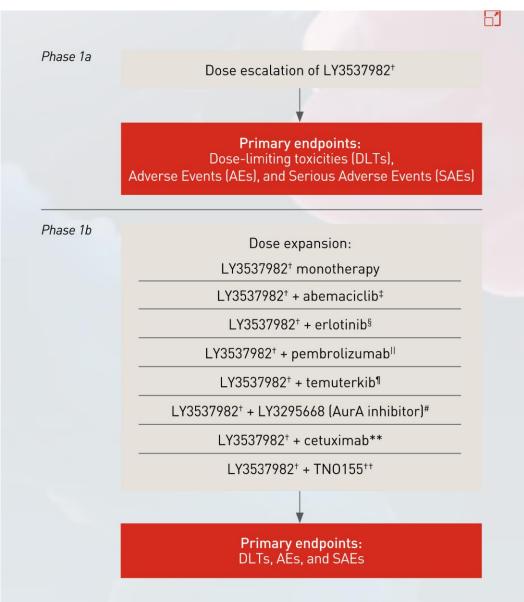
Arms A: Sotorasib 960 mg + Panitumumab or
Arm B: Sotorasib (240 mg) + PMab

Physician's Choice: Regorafenib or TAS-102

Primary Endpoint: PFS

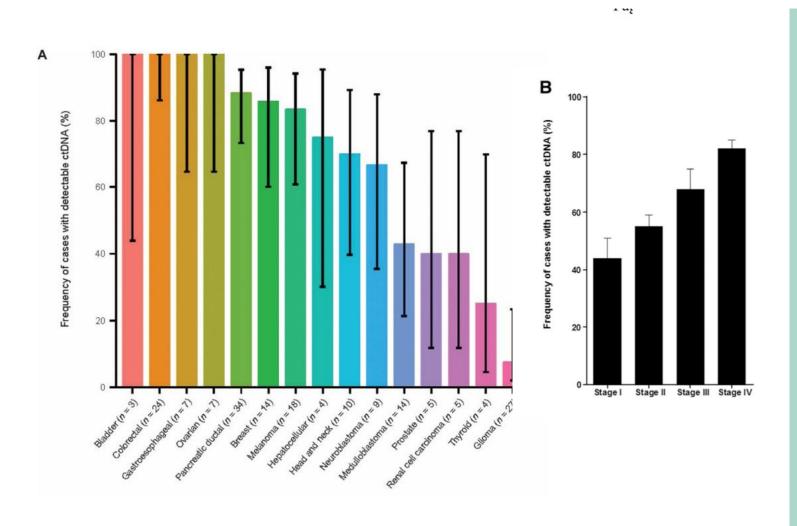
- Metastatic CRC
- KRAS G12C in tumor
 - Local test acceptable for enrollment; central confirmation req'd w/in 30d
- PD on 1L fluoropyrimidine + oxaliplatin or irinotecan
- No prior anti-EGFR or direct KRAS G12Ci





The role of ctDNA

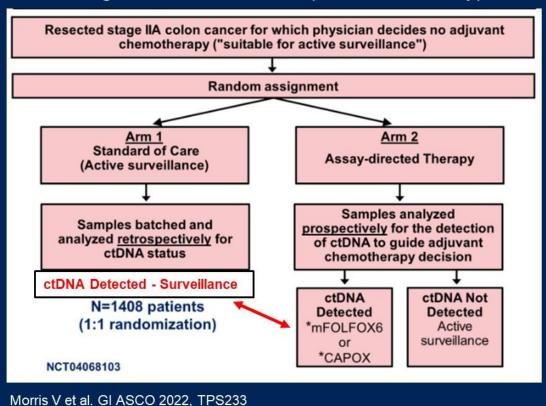
Variability in ctDNA by Primary Tumor and Stage



- Additional factors:
 - <u>Disease site</u>: Liver > lymph node > peritoneum > lung> brain
 - Size of mets > 2 cm
 - Number of mets
 - Histology: SCCA > adenoCA > mucinous
 - Method and timing of collection: -80°C
 - EDTA or STRECK tubes
 - Environment:
 - Recent surgery, inflammation, chemotherapy

Can ctDNA-Positive Patients Benefit from Adjuvant Chemo?

NRG-GI005 (COBRA) Stage IIA Colon Cancer (LUNAR-1 assay)



Stage III (T1-3, N1/N1c) Resected Colon Adenocarcinoma Circulating tumor DNA (ctDNA) results within 6-8 weeks of surgery ctDNA +ve Stage II or Stage IIIC ctDNA is No ctDNA detected R0 resection detected pMMR/MSS ctDNA Assay: Signatera CAPOX or Surveillance with **Current enrollment** FOLFOX* Serial ctDNA N = 29 (1912 planned) ctDNA is No ctDNA detected CAPOX or FOLFOXIRI# FOLFOX# Arvind Dasari (MDACC - NRG) *: Duration and regimen per physician discretion Christopher Lieu (UCCC - SWOG) #: 6 months duration NRG-GI008





PRESENTED BY: Jeanne Tie, MBChB FRACP MD

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Recommended ctDNA Perioperative Collection Timepoints

Timepoint	Timeframe	Potential correlative outcomes	
Treatment naive	Prior to treatment, concurrent with initial clinical staging	Pathological response to neoadjuvant therapy, long-term survival and disease status	
Post-neoadjuvant therapy and/or restaging	≥4 weeks after completing neoadjuvant therapy; ≤2 weeks of concurrent clinical assessment or restaging and/or resection	Pathological response to neoadjuvant therapy, neoadjuvant rectal score	
Post-resection	4–8 weeks after surgical resection with a curative intent	Long-term survival and disease status, including overall survival, disease-free survival and recurrence-free survival	
After adjuvant therapy or completion of all potentially curative therapy; minimal residual disease	2–8 weeks after completion of all curative-intent therapy		
Disease relapse or recurrence	≤2 weeks, concurrent with clinical assessment and/or restaging showing evidence of disease relapse and/or recurrence		

VANDERBILT-INGRAM CANCER CENTER

YOUNG ADULT CANCER PROGRAM

FOR THOSE 45 AND UNDER



For updates on events, services, and more please join our mailing list by scanning the QR Code and signing up today.

We look forward to helping you navigate your cancer journey!

We're here to help you get the support you need on topics you're concerned about:

- Reproductive health, fertility, and sexuality
- Financial/ insurance guidance
- Access to age-specific support groups and individual counseling
- Nutritional and exercise consults
- Educational and vocational resources
- Navigating relationships
- Parenting with cancer
- Music, art, and pet therapy
- Pain management
- And more....



Never Miss a Monday: YA Wellness Series

In collaboration with Survivor Fitness Foundation and Gilda's Club Middle Tennessee, we invite you to join us for Never Miss A Monday: Young Adult Wellness Series.

Start off your week on the right track with an all levels/survivor friendly movement class. Come on out and connect with other young adults impacted by cancer, the 2nd Monday of every month.

One of the First Young Adult Cancers Program Nationally







Co-Directors:

Elizabeth Davis, MD and Bhagi Dholaria MBBS

Director: Cathy Eng, MD, FACP, FASCO

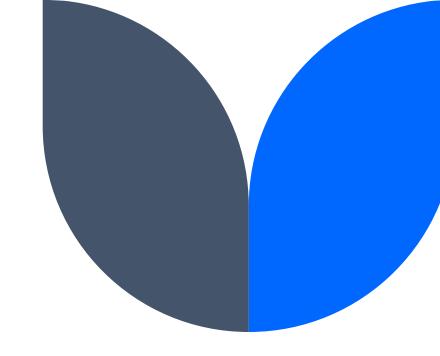


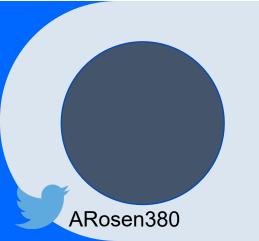












Allison Rosen
Fight CRC Research Advocate
2-6-2023

Overall Takeaways



- BIOMARKER testing is important in colorectal cancer patients
- New drugs and drug combinations are coming out: 2 were FDA approved at the mtg
- Healthcare professionals are considering treatment side effects and long term effects when deciding options
- Early onset is on the rise we need to do more
- Less is more when it comes to treatment in some cases

MOUNTAINEER

FDA approval of tucatinib combined with trastuzumab for HER2-positive metastatic colorectal cancer

- Approved 1/19/2023
- Already being used in breast so some trust in this drug
- Chemo-free approach to HER2+ RAS wild-type
- Proves that biomarker test is important

PARADIGM

RAS wild-type mCRC FOLFOX with panitumumab vs bevacizumab in patients with RAS wild-type left-sided mCRC

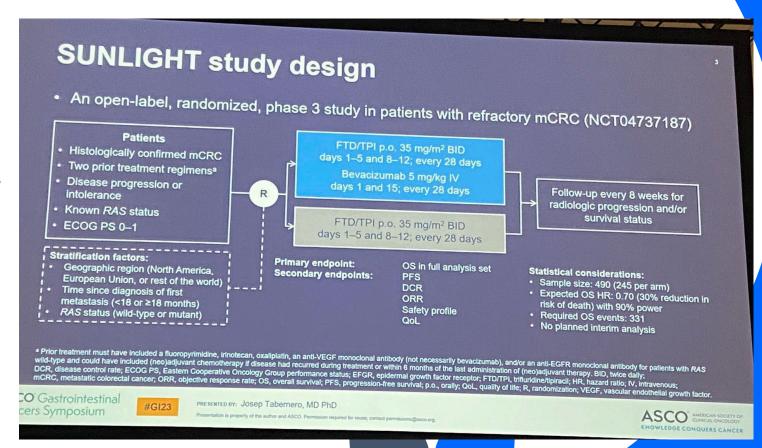
- Of the 802 patients 91% had ctDNA and 28% had at least one gene alteration
- Proved that you can use ctDNA to define negative hyperselection rather than look at left sided and right sided to help select patient with frontline therapy in terms of PAN versus BEV



SUNLIGHT

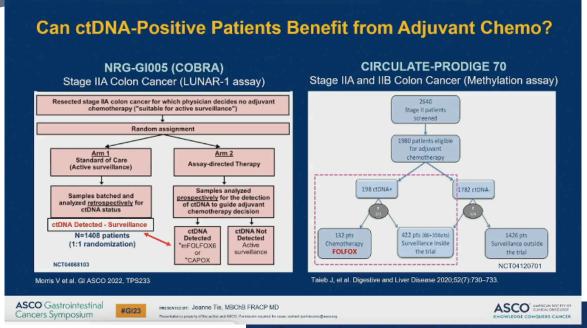
Trifluridine/Tipiracil plus Bevacizumab provides benefit in refractory metastatic colorectal cancer

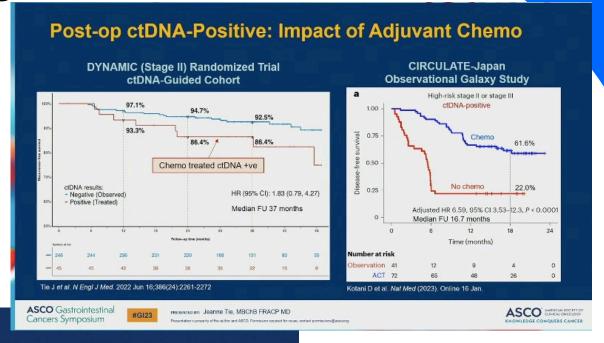
- Improved overall survival and progression-free survival
- This can be used for microsatellite stable colon cancer population if not candidates for immunotherapy
- ¼ of patients did not see bevacizumab in this study: appealing doublet in these patients
- Could be considered a standard of care





ctDNA: Prime Time or Jumping too Soon?





Conclusion/Takeaway

- Detection of ctDNA after curative intent surgery predicts for high risk of recurrence (prognostic)
 - Post-op ctDNA testing can be helpful to guide adjuvant therapy in scenarios where treatment benefit is uncertain/modest, e.g., low/intermediate risk or dMMR/MSI stage II
- Favorable RFS in treated ctDNA-positive patients and the high ctDNA clearance rate suggest potential benefit from adjuvant chemo
 - Ongoing randomized trials will provide more definitive evidence
- ctDNA detection post-chemotherapy or during surveillance is prognostic but its clinical utility remains the subject of ongoing trials
 - Caution: over-investigation, anxiety provoking without survival gain



Despite remarkable advances in cancer care, we demonstrate an alarming recent trend where mortality rate has remained stable & recently increased in younger individuals with GI cancers

DEMOGRAPHIC AND REGIONAL TRENDS OF GI CANCER MORTALITY IN **ADOLESCENTS AND YOUNG ADULTS (AYA) IN THE US, 1999-2019**

S. M. Qasim Hussaini¹, Amanda Blackford¹, Ramy Sedhom², Arjun Gupta³

Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins Hospital, Baltimore, Maryland, ²University of Pennsylvania, Philadelphia, Pennsylvania, ³Masonic Cancer Center, University of Minnesota, Minneapolis, Minnesota



OVER A 20-YEAR PERIOD (1999-2019)



THOUSAND AYAs (AGES 15-44) DIED FROM GI CANCER



39% Female 16% Hispanic 20% NH Black



16% Rural 42% Southernlocated



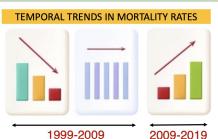
17% Pancreas

17% Hepatobiliary 17% Gastric

MORTALITY RATES HIGHEST MORTALITY RATES OBSERVED IN: NON-HISPANIC BLACKS HISPANIC INDIVIDUALS **RURAL REGIONS** NO IMPROVEMENT IN MORTALITY RATE OVER 20-YEAR PERIOD

	AAMR, 1999	AAMR, 2019	APC trends (year range)
Overall	3.3	3.3	+0.49 (2009-19)
Women	2.6	2.7	+0.80 (2011-19)
Men	3.9	3.9	+0.40 (2007-19)
Hispanic	2.8	3.3	+1.99 (2011-19)
White	2.9	3.1	-1.43 (2017-19)
Black	5.4	4.0	-1.53 (1999-2012)
Large Metro	3.1	3.3	+1.04 (2013-19)
Medium/Small	3.2	3.2	-1.27 (2016-19)
Rural	3.8	3.7	+0.67 (2004-19)
Age 45+	131.7	109.7	-0.69 (2007-19)

AAMR = Age-Adjusted Mortality Rate APC = Annual Percentage Change, using Joinpoint



1999-2009 OVERALL STABILITY TO SLIGHT INCREASE SLIGHT DECREASE



HIGHEST AAMRs IN **SOUTHERN STATES** **EOCRC** mortality rates were stable 1999-2009 but have risen significantly with significant sociodemographic and regional variation

- 74,000 AYAs (15-44) have passed from GI cancers the highest being 52% from colorectal
- Highest mortality rate was in rural areas, Non-Hispanic Blacks and Hispanic individuals
- Mortality highest in Southern states at 42%

#TLDR

Mortality rates for AYAs with GI cancers remained relatively stable from 1999 to 2009, but have since risen, with significant sociodemographic and regional variation. These data highlight the need to better understand risk factors (diet, environmental, and other), screening trends, and variation in receipt of guideline-concordant care to ensure appropriate and equitable risk reduction and cancer management in AYAs

PROVIDER & POLICY IMPLICATIONS

TARGETED PREVENTION SURVEILLANCE

SURVIVORSHIP CARE

ACCESS

ADVOCACY & AWARENESS

REGIONAL INFRASTRUCT URE

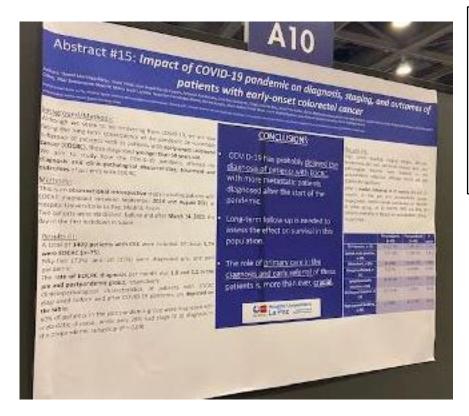




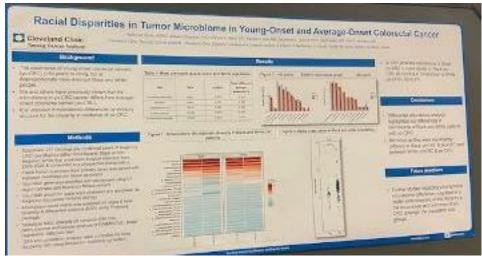


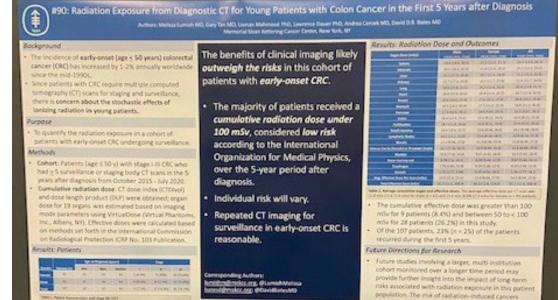
Other poster topics: patient navigation vital, COVID effects on screening, treatment

evolutions (harmful or not), and health disparities



There were key differences in microbiome in black vs White EOCRC





Benefits of imaging outweigh the risk of patients with EOCRC

COVID-19 delayed the diagnosis of patients with EOCRC



THANK YOU

Contact me at

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@Allisonrosen4



@alicat380



@alicat380



@ARosen380









QUESTION AND ANSWER

Type in your questions on the panel on the right side of your screen



Fight Colorectal Cancer Mission

We FIGHT to cure colorectal cancer and serve as relentless champions of hope for all affected by this disease through informed patient support, impactful policy change, and breakthrough research endeavors.

