

Recent Practice Changing Clinical Trials in Colorectal Cancer

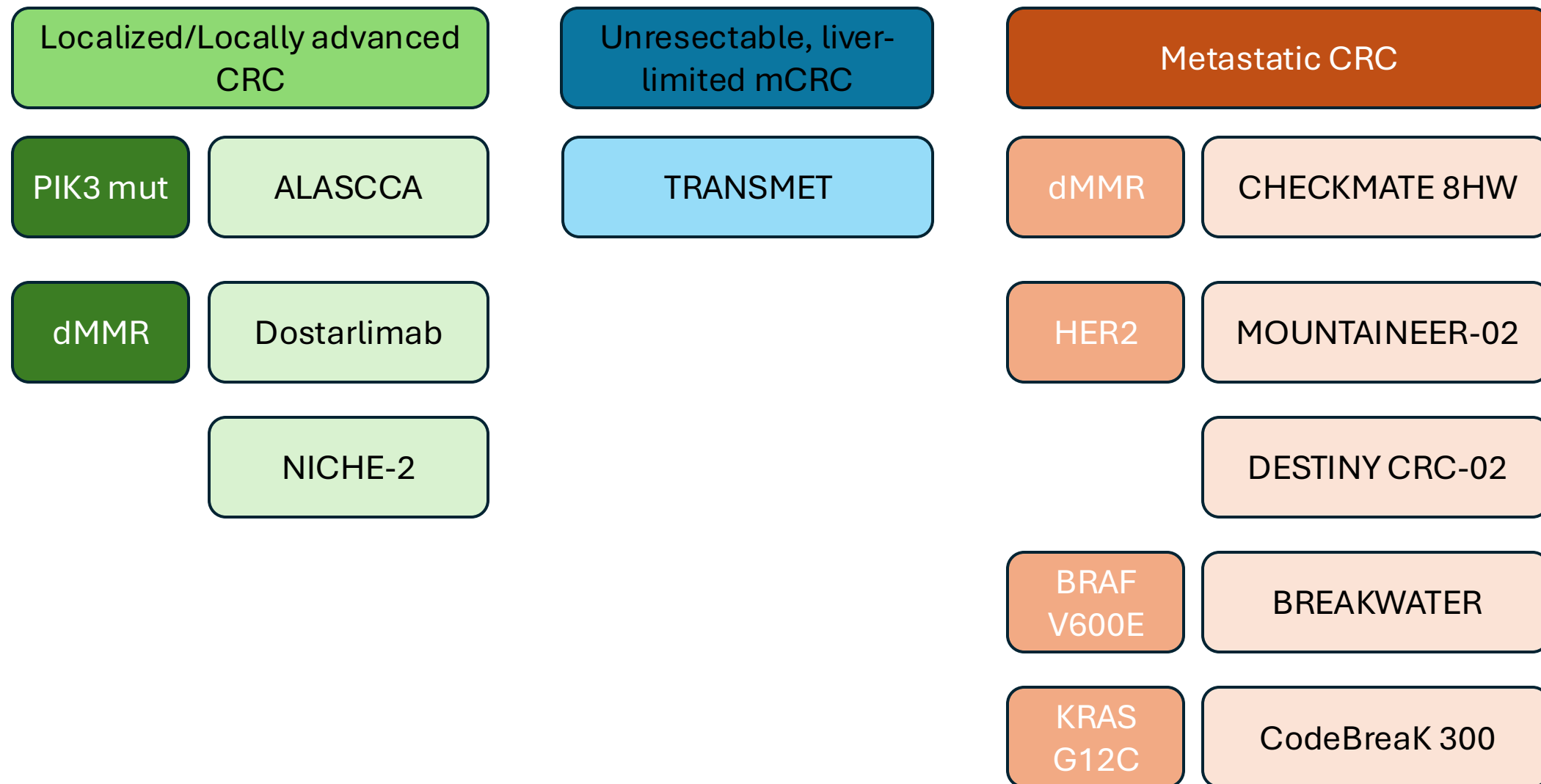
April 12, 2025

South Florida GI Cancer Symposium

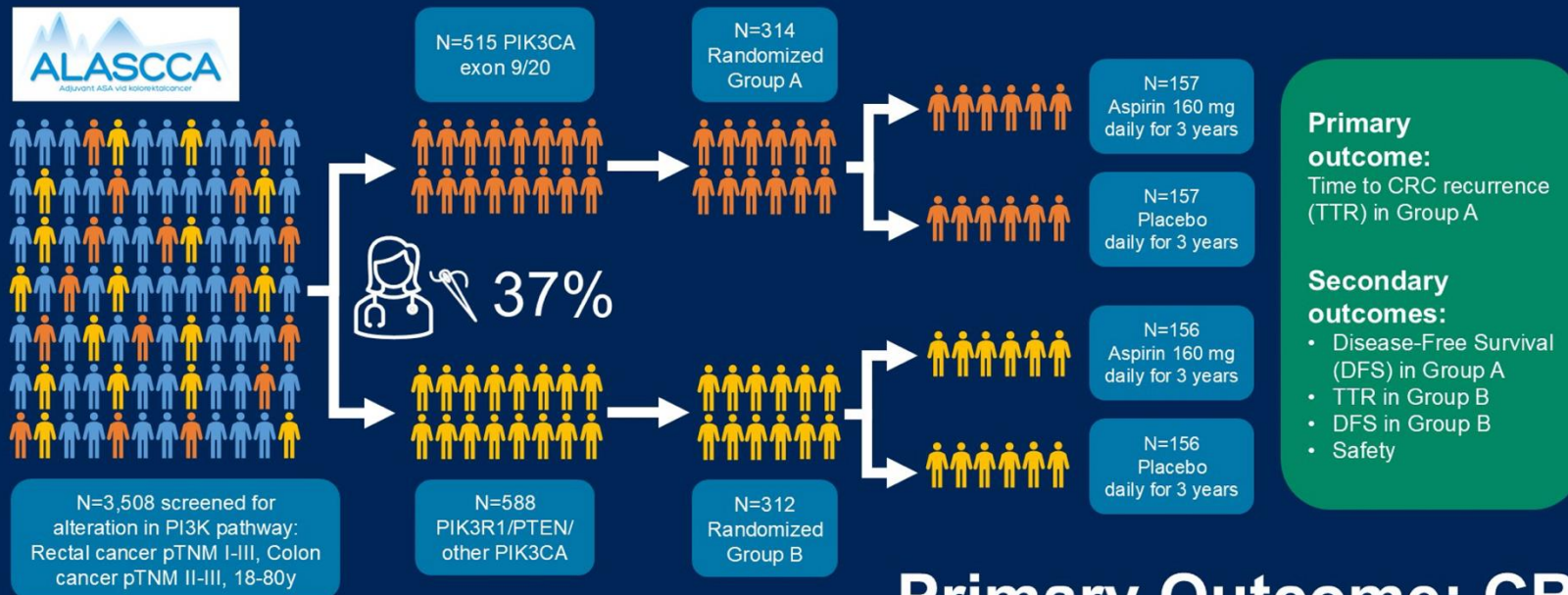
Yoanna Pumpalova, MD

Columbia University Irving Medical College

Outline

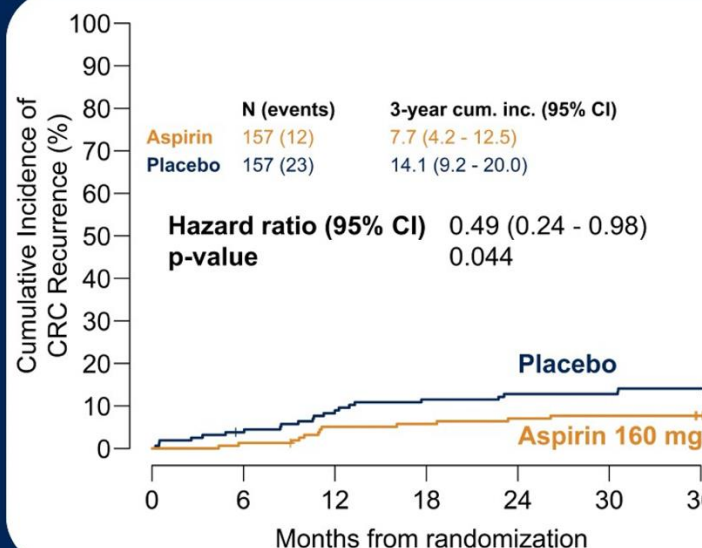


The ALASCCA Trial (NCT02647099)

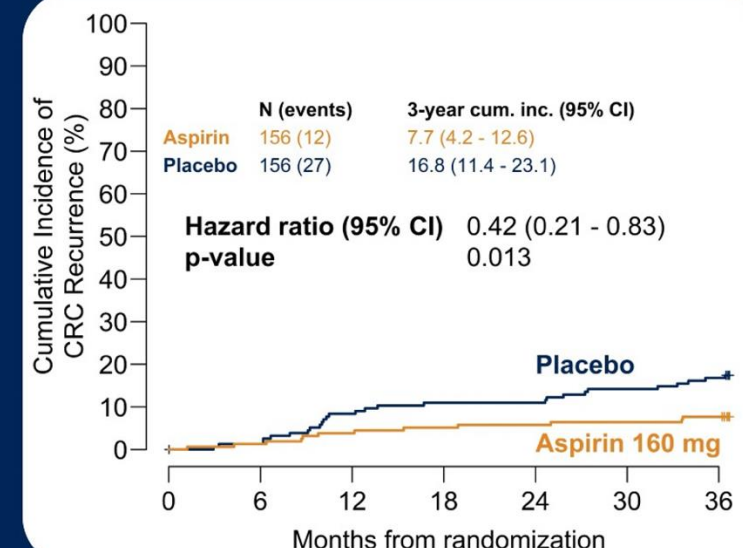


Primary Outcome: CRC Recurrence

Group A (PIK3CA Exons 9/20)

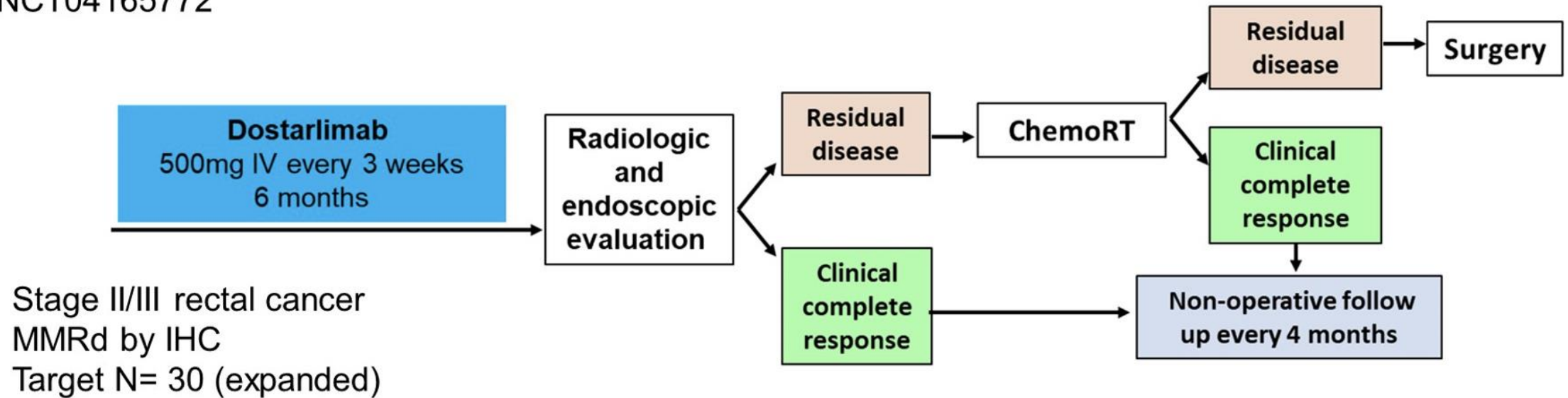


Group B (PIK3R1/PTEN/Other PIK3CA)



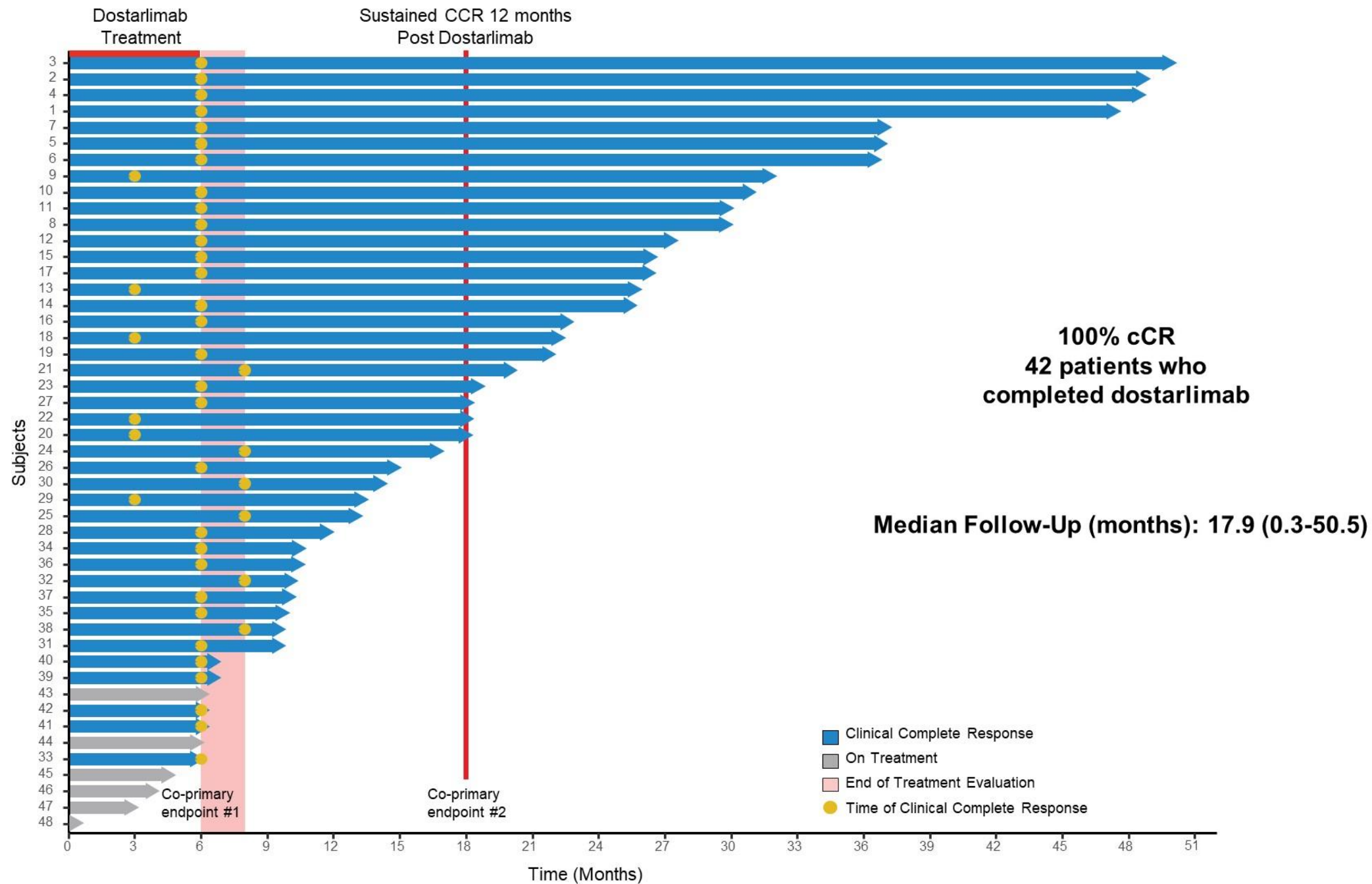
Neoadjuvant PD-1 blockade in Locally Advanced Mismatch Repair-Deficient Rectal Cancer

NCT04165772



Primary Endpoints:

- ORR after completion of PD-1 alone or in combination with chemoRT
- pCR or sustained cCR for 12 mo after completion of PD1 alone or in combination with chemoRT



Neoadjuvant Immunotherapy in Locally Advanced Mismatch Repair–Deficient Colon Cancer (NICHE-2)

NICHE-2 study design

- Investigator-initiated, non-randomized multicenter* study

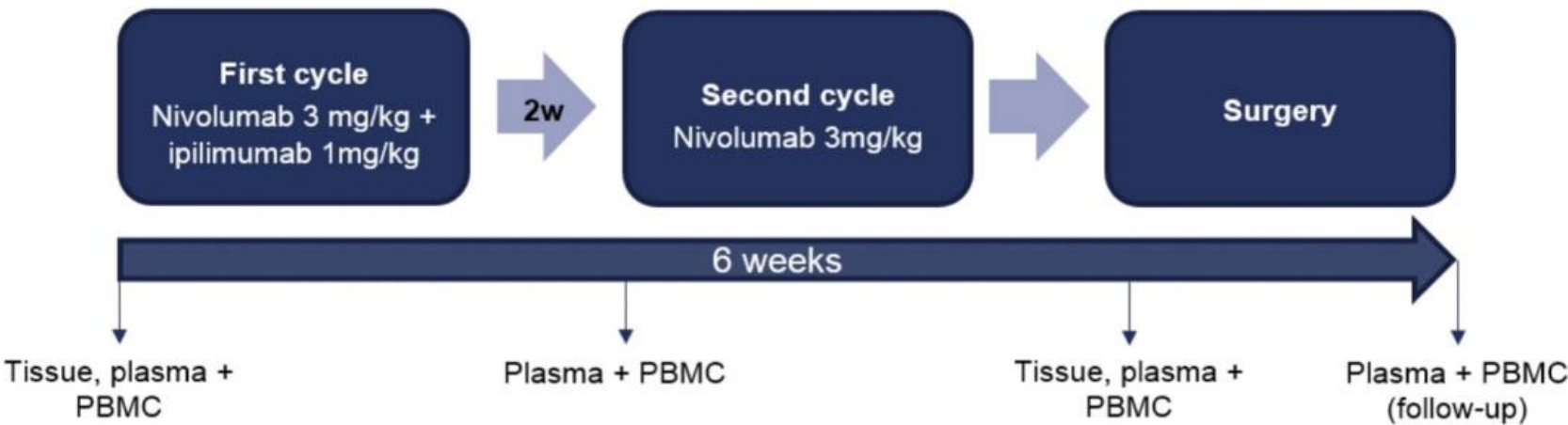


Table 1. Demographic and Disease Characteristics of the Patients.

Characteristic	Patients (N = 115)
Female sex — no. (%)	67 (58)
Median age (range) — yr	60 (20–82)
WHO performance-status score — no. (%) [*]	
0	100 (87)
1	15 (13)
Race or ethnic group — no. (%) [†]	
White	97 (84)
Asian	6 (5)
Black	5 (4)
Other	7 (6)
Tumor stage — no. (%) [‡]	
cT2	17 (15)
cT3 or cT3–T4a	24 (21)
cT4a	41 (36)
cT4b	33 (29)
Nodal status — no. (%) [§]	
cN–	38 (33)
cN+	77 (67)
Primary tumor location — no. (%)	
Right	78 (68)
Transverse	17 (15)
Left	20 (17)
Lynch syndrome — no. (%)	37 (32)
Unexplained dMMR — no. (%) [¶]	2 (2)
Non–Lynch syndrome dMMR — no. (%)	76 (66)

^{*} The World Health Organization (WHO) performance-status score ranges from 0 to 5, with higher scores indicating greater disability.

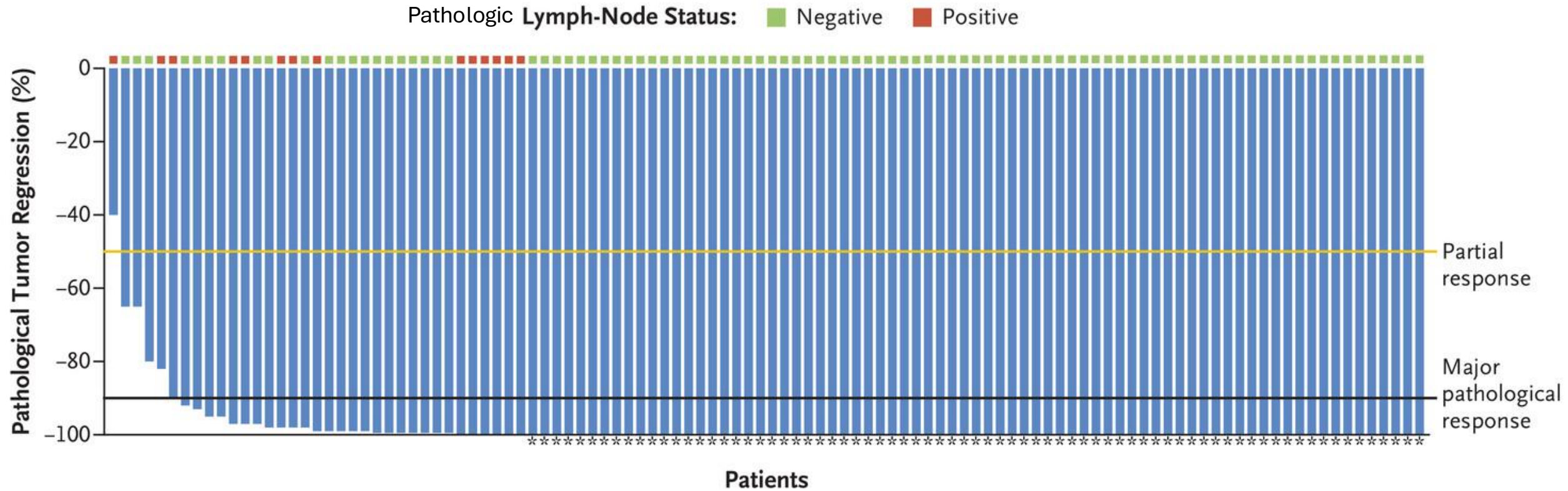
[†] Race or ethnic group was reported by the patients or inferred on the basis of the country of birth if patient-reported data were unavailable. The category “Other” includes patients of Hispanic, Middle Eastern, and North African descent.

[‡] Tumor stage was classified according to the American Joint Committee on Cancer staging system, version 8, with higher numbers indicating a more advanced tumor.

[§] Nodal status indicates the presence (cN+) or absence (cN–) of cancer cells in the lymph nodes.

[¶] Unexplained mismatch repair deficiency (dMMR) was specified as dMMR that could not be explained by characteristic germline alterations, biallelic somatic inactivation of the MMR protein, or *MLH1* promoter hypermethylation.

Neoadjuvant Immunotherapy in Locally Advanced Mismatch Repair–Deficient Colon Cancer (NICHE-2)

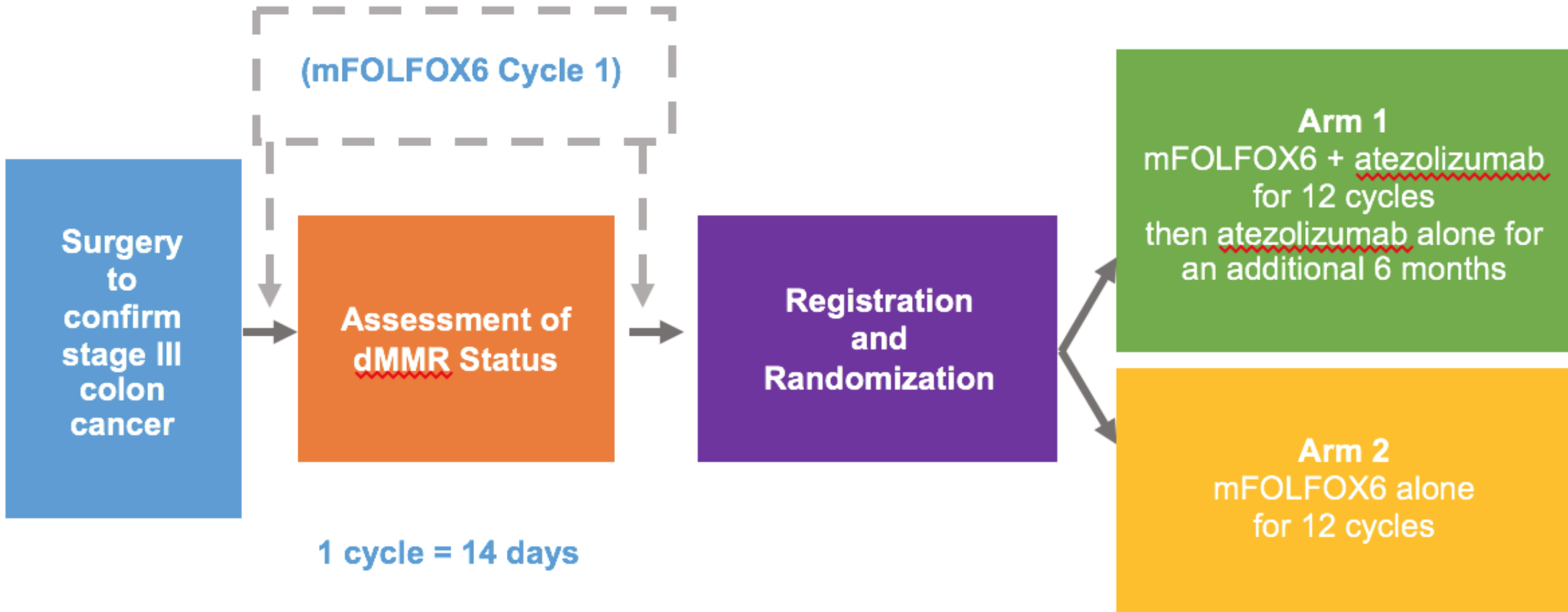


- 3 patients received adjuvant chemotherapy
- With a median follow-up of 26.2 months (range, 9.1 to 65.3), no disease recurrences have been observed.
- All 37 patients with a follow-up of longer than 36 months remain disease-free.

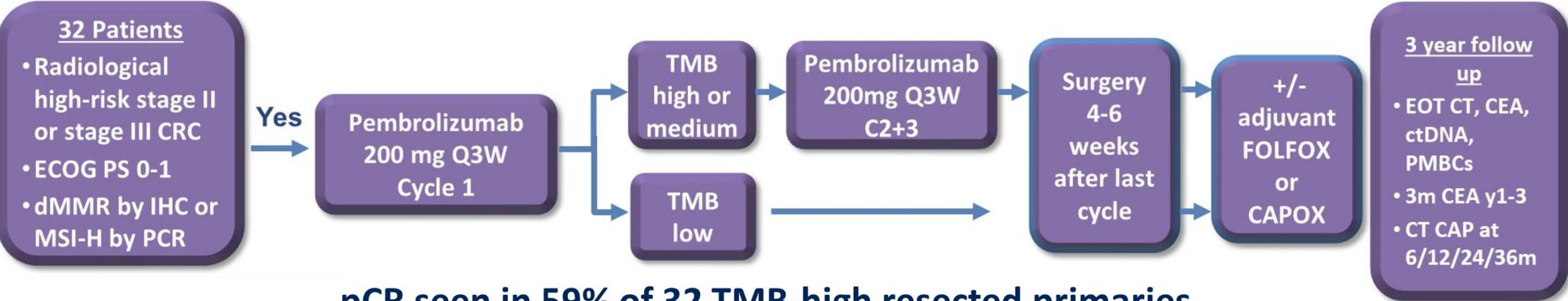
Neoadjuvant IO for dMMR localized CRC: remaining questions

- Neoadjuvant versus adjuvant treatment
- Dual versus single-agent immune checkpoint inhibitor
 - Novel checkpoint inhibitors
- Optimal duration of treatment
- Non-operative management in colon cancer

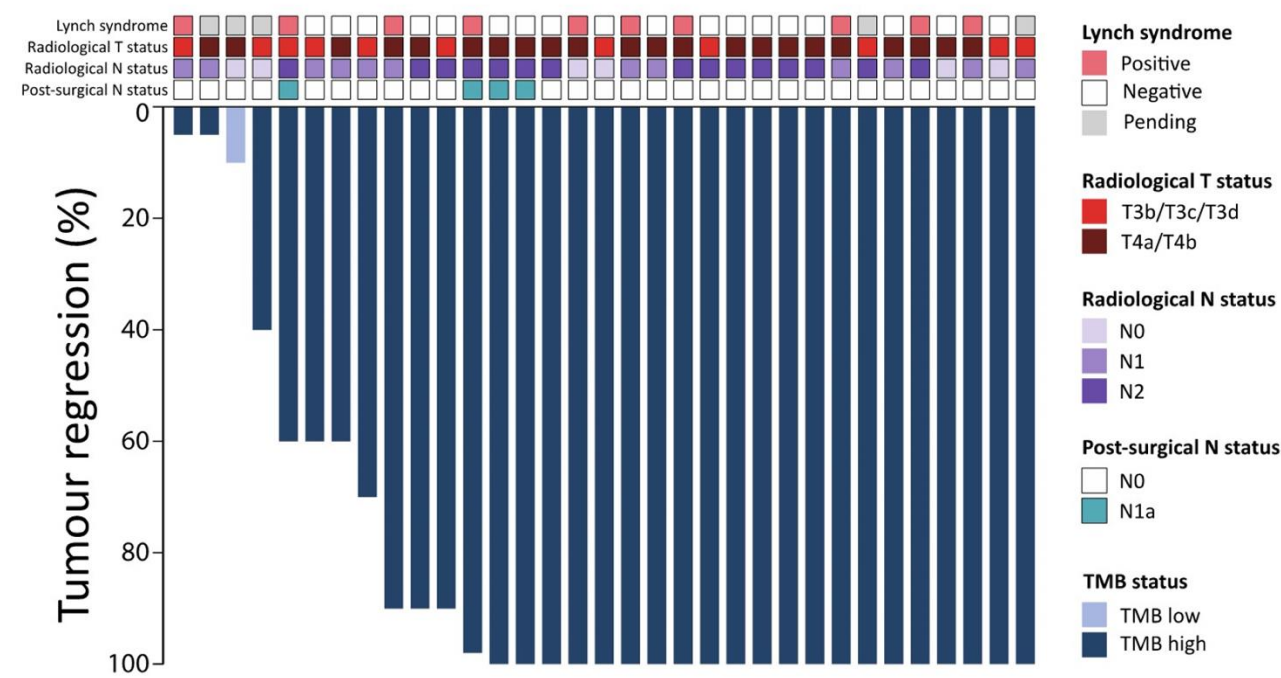
Awaiting results: ATOMIC trial



NEOPRISM-CRC Study Design



pCR seen in 59% of 32 TMB-high resected primaries

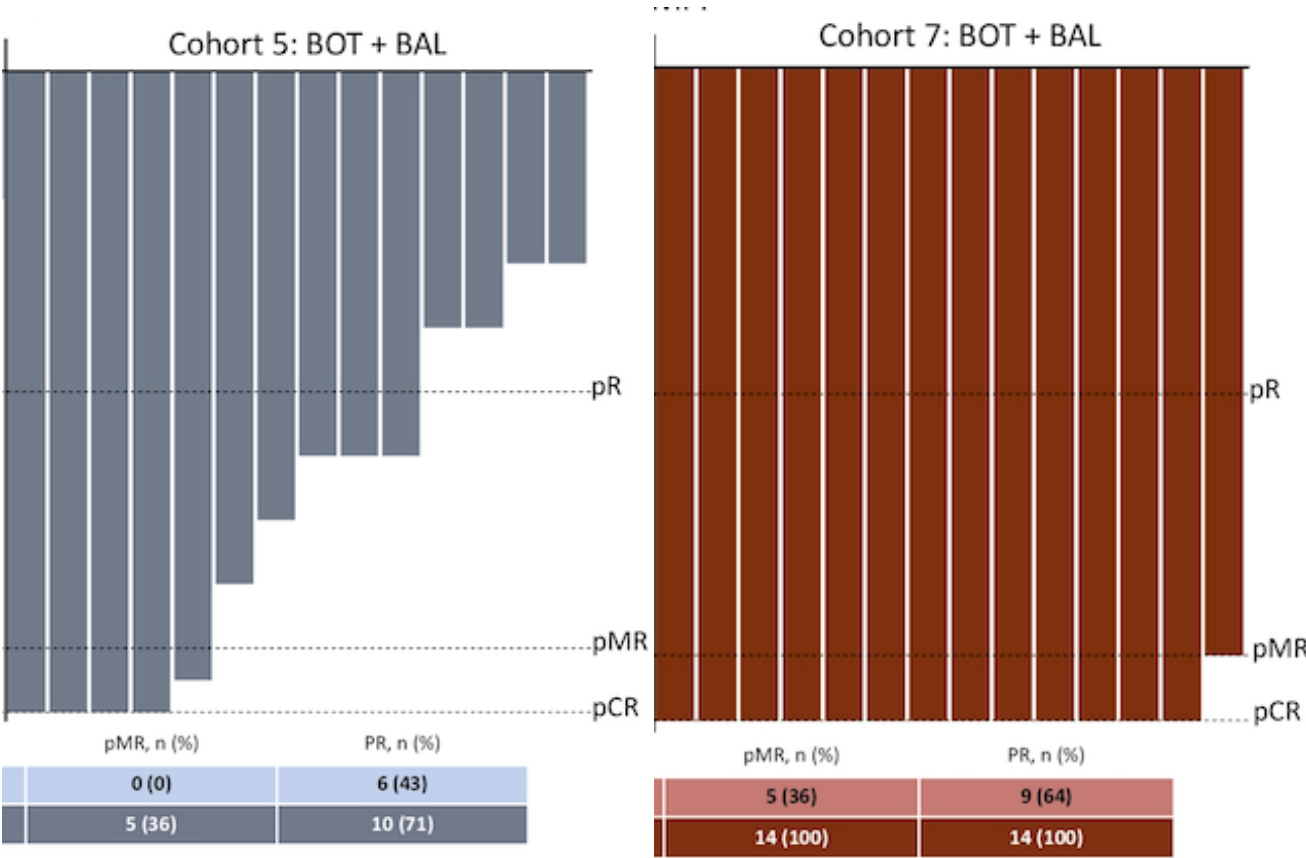


No disease relapse with median follow up of 9.7 months (range 5.3-19.0) and only 2 patients had adjuvant CAPOX

UNICORN by GONO

Cohort 5: resectable pMMR colon cancer
 IV BOT 1mg/kg on day 1 and BAL 3mg/kg on days 1 and 15 → resection on day 35 +/- 5 days

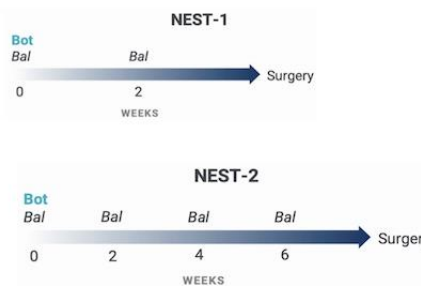
Cohort 7: resectable dMMR colon cancer
 IV BOT at 1mg/kg on day 1 and BAL 3mg/kg on days 1 and 15 → resection on day 35 +/- 5 days



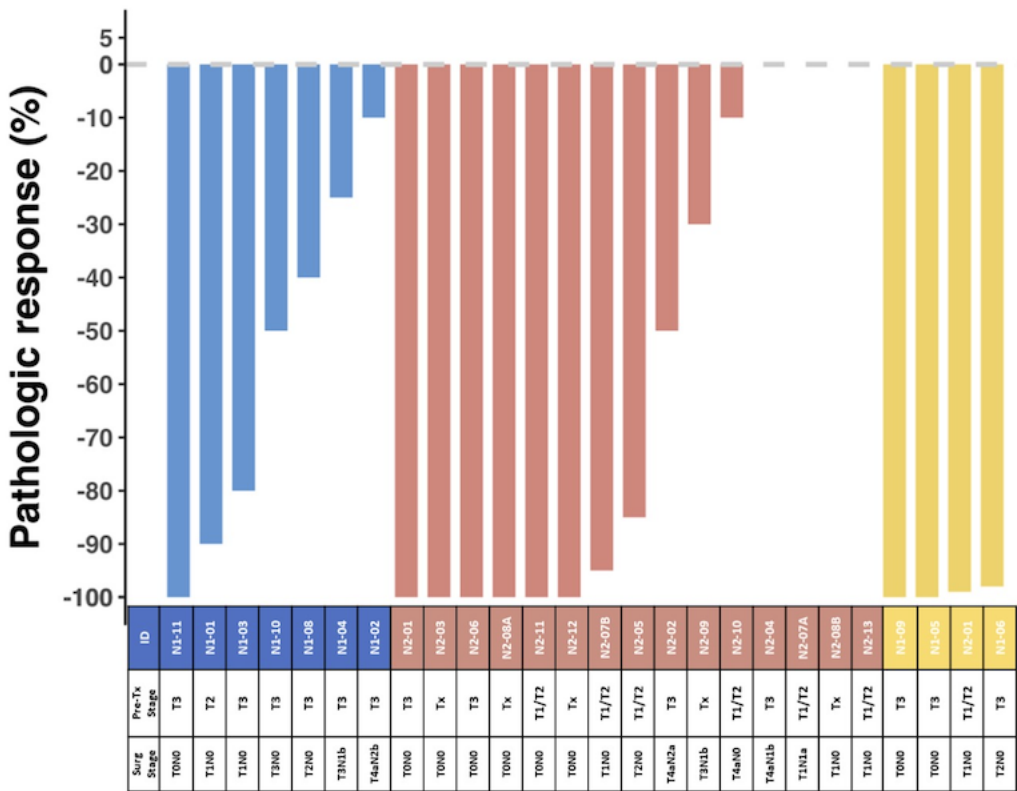
NEST-1 and NEST-2

NEST-1
 1 dose of 75mg Botensilimab (BOT)
 2 doses of 240mg Balstilimab (BAL) 2 weeks apart

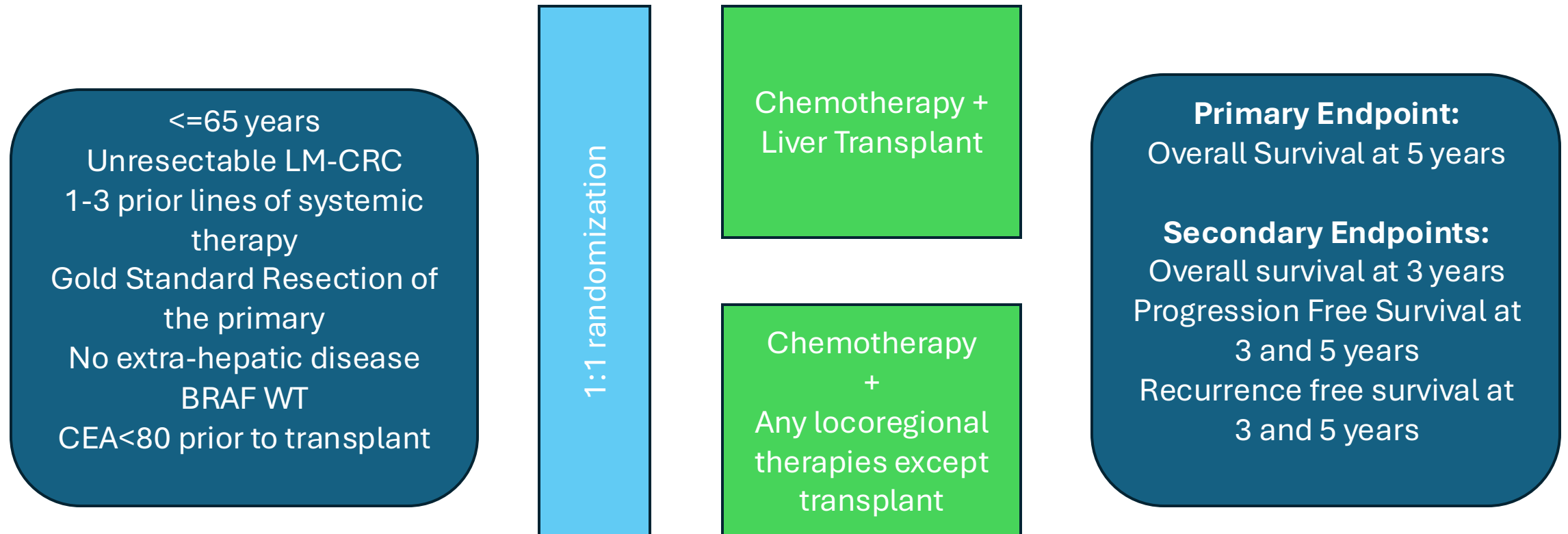
NEST-2
 1 dose of 75mg Botensilimab (BOT)
 Up to 4 doses of 240mg Balstilimab (BAL) 2 weeks apart



Pathologic Response Group: NEST1 & pMMR (Blue), NEST2 & pMMR (Red), dMMR (Yellow)



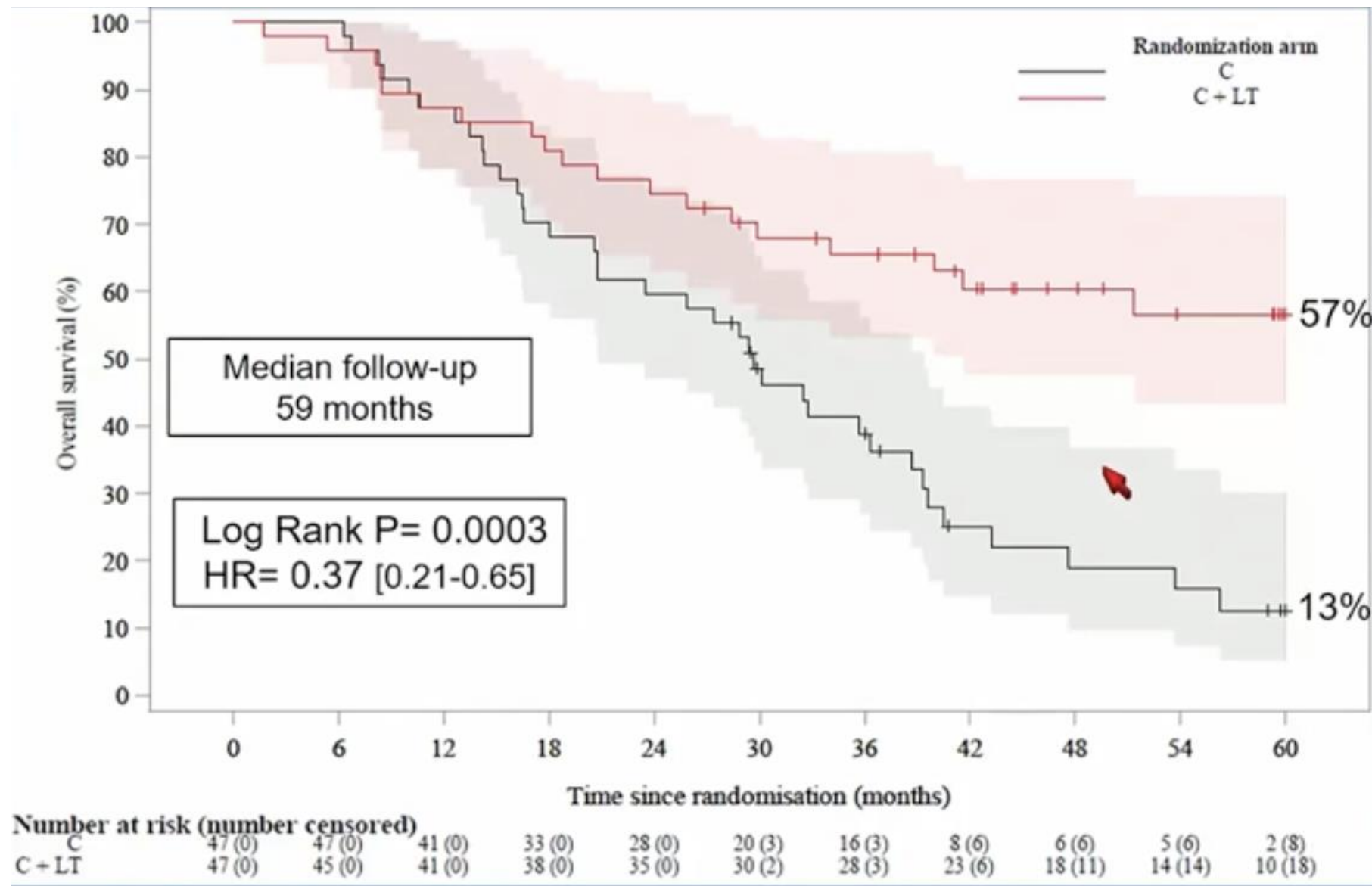
TransMet: liver transplant for liver-limited mCRC



TransMet Trial: Baseline Characteristics

		LT+C (n=47)	C alone (n=47)
Age (years)		52.0 (47-59)	55.0 (47-59)
Male		27 (57%)	28 (60%)
Right-sided primary		7 (15%)	7 (15%)
RAS mut		11 (23%)	12 (26%)
Median number of liver lesions		20 (14-25)	20 (12-25)
Fong's clinical risk score >2		42 (89%)	42 (89%)
Number of lines of chemotherapy prior to randomization			
	1	19 (40%)	22 (47%)
	2	20 (43%)	22 (47%)
	3	8 (17%)	3 (6%)
Previous Liver surgery or ablation		4 (9%)	12 (26%)
Median time between diagnosis of liver metastases and randomization (months)		16 (12–26)	14 (9–19)

TRANSMET: Primary Endpoint 5-year OS (ITT)



TransMet Trial : **Recurrence (LT+C) or Progression (C)**

15

Per Protocol population

36 Patients (LT+C)

38 Patients (C)

26 Recurrence (72%)

37 Progression (97%)

Liver (1) **Lungs (14)** Lymph N (3) Other (5) Multiple (3)

Surgery or Ablation : 12/26 (46%)

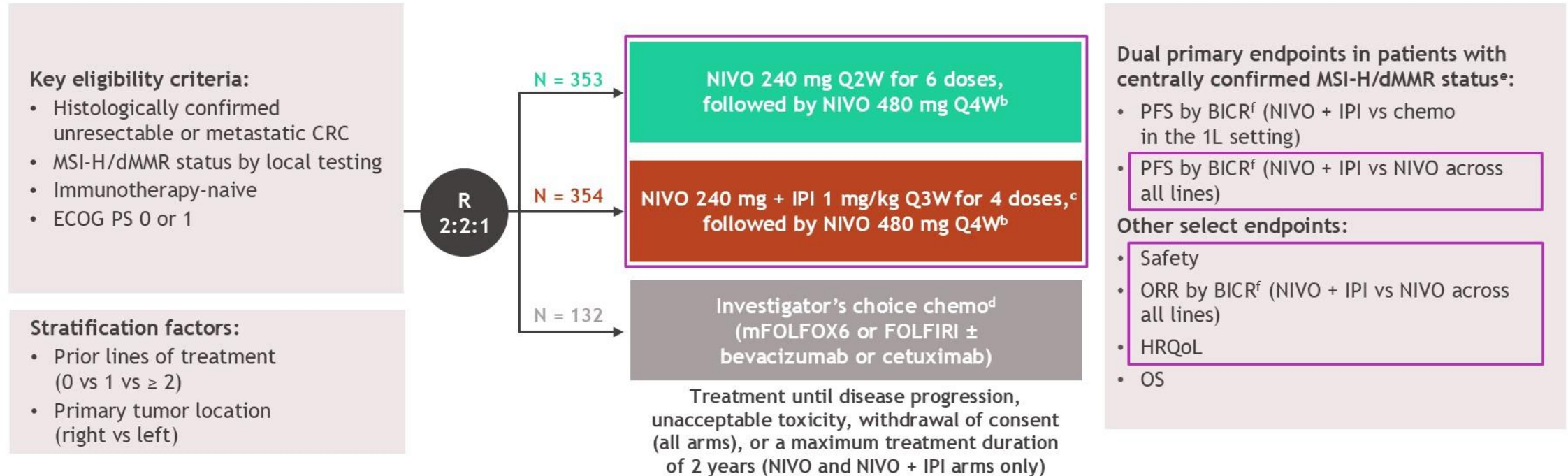
New Regimen Chemotherapy

15 Patients NED (42%)

Median FU: 50 Mo

1 Patient NED (3%)

Nivolumab plus ipilimumab vs nivolumab monotherapy or chemotherapy for dMMR metastatic CRC (CheckMate 8HW)



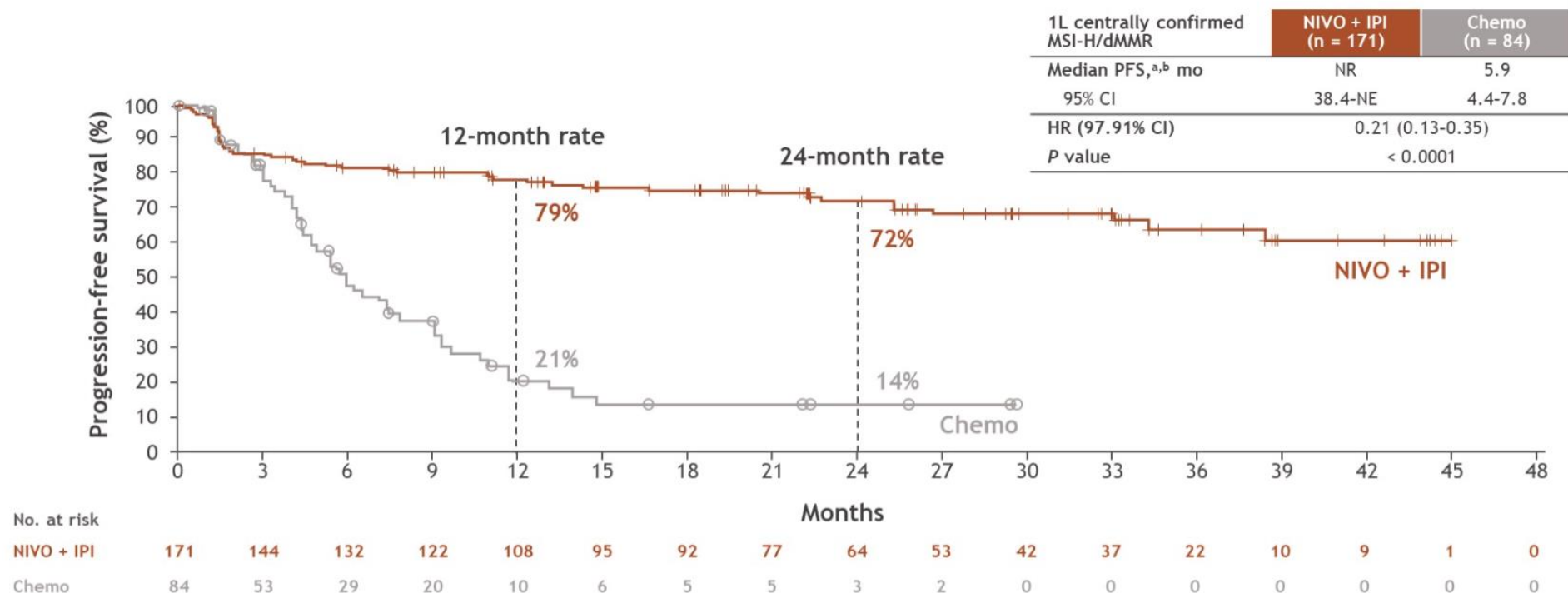
- At data cutoff (August 28, 2024), the median follow-up^g was 47.0 months (range, 16.7-60.5)

^aClinicalTrials.gov. NCT04008030. ^bPatients with ≥ 2 prior lines are randomized only to the NIVO or NIVO + IPI arms. ^cPatients can continue NIVO treatment upon early IPI discontinuation.

^dPatients receiving investigator's choice of chemo are eligible to receive NIVO + IPI upon progression (crossover treatment). ^eConfirmed using either IHC and/or polymerase chain reaction-based tests. ^fEvaluated using RECIST v1.1. ^gTime between randomization and data cutoff among all randomized patients across all 3 treatment arms.

Nivolumab plus ipilimumab vs chemotherapy for dMMR metastatic CRC (CheckMate 8HW)

Progression-free survival

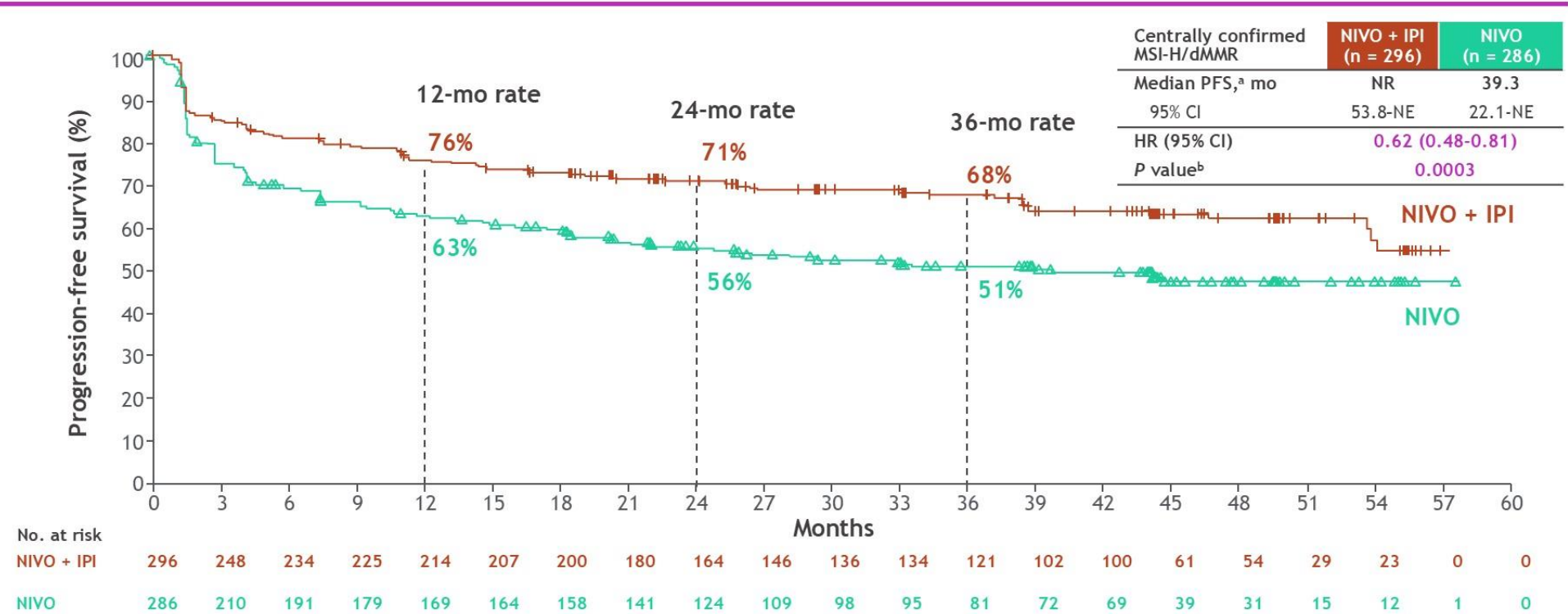


- PFS benefit with NIVO + IPI vs chemo was robust and consistent across the sensitivity analyses, including PFS by BICR in 1L all randomized patients (HR, 0.32; 95% CI, 0.23-0.46)

Nivolumab plus ipilimumab vs nivolumab monotherapy for dMMR metastatic CRC (CheckMate 8HW)

CheckMate 8HW

Progression-free survival



- NIVO + IPI demonstrated statistically significant and clinically meaningful PFS benefit vs NIVO in patients with centrally confirmed MSI-H/dMMR mCRC across all lines of therapy
 - PFS benefit with NIVO + IPI vs NIVO was consistent in all randomized patients (median PFS: 54.1 vs 18.4 months; HR, 0.64 [95% CI, 0.52-0.79])

^aPer BICR. ^bBoundary for statistical significance, p < 0.0095.

Single vs dual IO in metastatic dMMR

CheckMate 8HW

Treatment-related adverse events

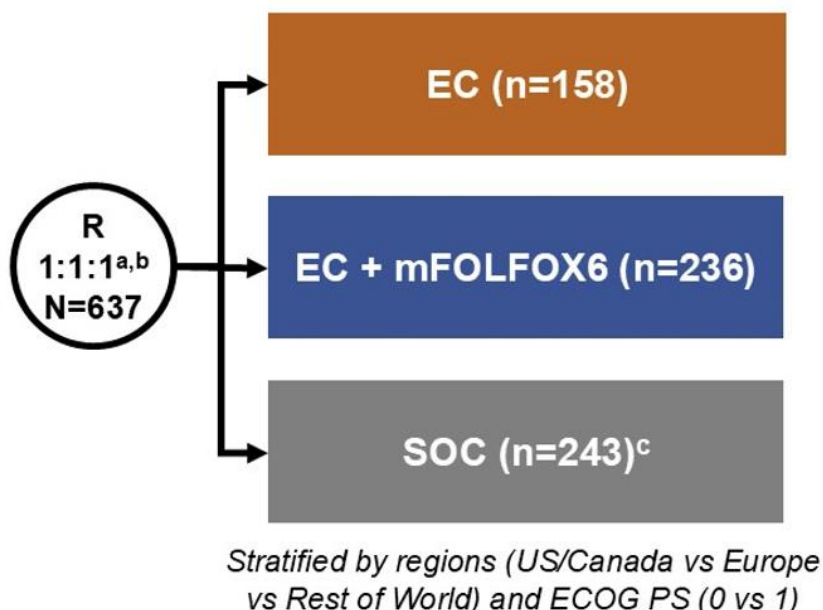
All treated patients, n (%)	NIVO + IPI (n = 352)		NIVO (n = 351)	
	Any grade	Grade 3/4	Any grade	Grade 3/4
TRAEs^a				
Any TRAEs	285 (81)	78 (22)	249 (71)	50 (14)
Serious TRAEs	65 (18)	55 (16)	29 (8)	24 (7)
TRAEs leading to discontinuation ^b	48 (14)	33 (9)	21 (6)	14 (4)
Treatment-related deaths^c	2 (< 1) ^d		1 (< 1) ^e	
TRAEs^a reported in ≥ 10% of patients				
Pruritus	91 (26)	0	63 (18)	0
Diarrhea	71 (20)	3 (< 1)	59 (17)	2 (< 1)
Hypothyroidism	61 (17)	2 (< 1)	31 (9)	0
Asthenia	58 (16)	2 (< 1)	44 (13)	2 (< 1)
Fatigue	42 (12)	1 (< 1)	35 (10)	1 (< 1)
Hyperthyroidism	40 (11)	0	16 (5)	0
Arthralgia	38 (11)	1 (< 1)	23 (7)	0
Rash	34 (10)	3 (< 1)	29 (8)	1 (< 1)
Adrenal insufficiency	34 (10)	8 (2)	12 (3)	3 (< 1)

^aIncludes events reported between first dose and 30 days after last dose of study therapy. ^bDiscontinuation of any component of the combination regimen was counted as a drug discontinuation event. ^cTreatment-related deaths were reported regardless of timeframe. ^dIncludes 1 event each of myocarditis and pneumonitis. No new treatment-related deaths were reported since the previous interim analysis. ^eOne event of pneumonitis.

BREAKWATER: Study Design

- BREAKWATER (NCT04607421) is an open-label, multicenter, phase 3 study in first line BRAF V600E-mutant mCRC

Inclusion criteria
<ul style="list-style-type: none">• Age ≥ 16 years (or ≥ 18 years based on country)• No prior systemic treatment for metastatic disease• Measurable disease (RECIST 1.1)• BRAF V600E-mutant mCRC by local or central laboratory testing• ECOG PS 0 or 1• Adequate bone marrow, hepatic, and renal function
Exclusion criteria
<ul style="list-style-type: none">• Prior BRAF or EGFR inhibitors• Symptomatic brain metastases• MSI-H/dMMR tumors (unless patients were ineligible to receive immune checkpoint inhibitors due to a pre-existing medical condition)• Presence of a RAS mutation



Dual primary endpoints:
PFS and ORR^d by BICR
(EC + mFOLFOX6 vs SOC)

Key secondary endpoint:
OS (EC + mFOLFOX6 vs SOC)

Here we present the primary analysis of ORR by BICR (one of the dual primary endpoints), an interim analysis of OS, and safety in the EC + mFOLFOX6 and SOC arms

^aFollowing a protocol amendment, enrollment to the EC arm was stopped and patients were randomized 1:1 to the EC+mFOLFOX6 or SOC arms; data in the EC arm will be reported at a later date. ^bPatients were enrolled between November 16, 2021, and December 22, 2023. ^cmFOLFOX6/FOLFOXIRI/CAPOX \pm bevacizumab. ^dIn the first 110 patients in each of the EC+mFOLFOX6 and SOC arms.

CAPOX, capecitabine/oxaliplatin; BICR, blinded independent central review; dMMR, deficient mismatch repair; EC, encorafenib plus cetuximab; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; mFOLFOX6, modified fluorouracil/leucovorin/oxaliplatin; FOLFOXIRI, fluorouracil/leucovorin/oxaliplatin/irinotecan; mCRC, metastatic colorectal cancer; MSI-H, microsatellite instability-high cancer; RECIST, Response Evaluation Criteria in Solid Tumors.

BREAKWATER: Baseline Characteristics

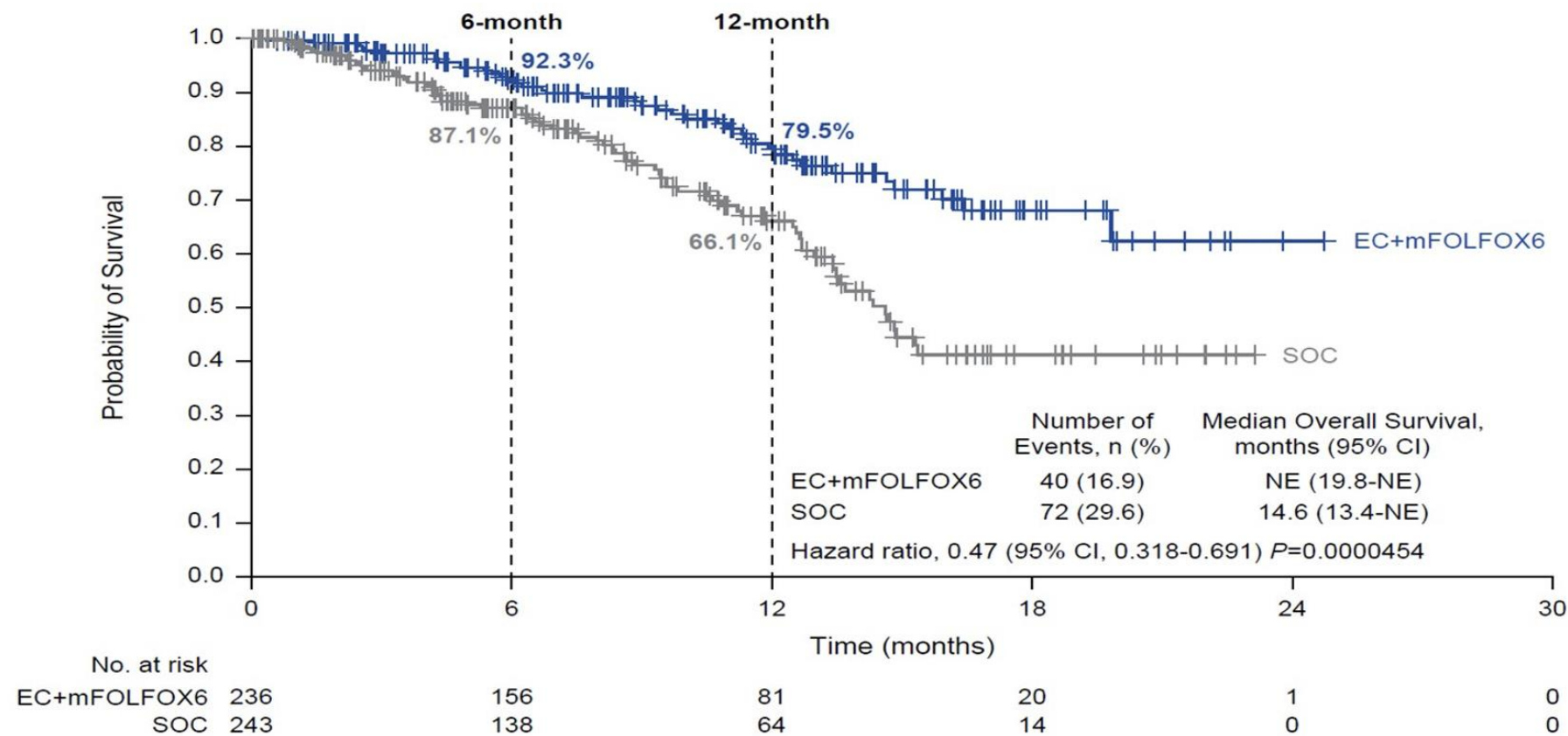
	EC + mFOLFOX6 n=236	SOC n=243	Total N=479
Age, median (range), years	60.0 (24-81)	62.0 (28-84)	61.0 (24-84)
Sex, n (%)			
Male	123 (52.1)	119 (49.0)	242 (50.5)
Female	113 (47.9)	124 (51.0)	237 (49.5)
ECOG PS, n (%)			
0	129 (54.7)	131 (53.9)	260 (54.3)
1	103 (43.6)	98 (40.3)	201 (42.0)
Side of tumor, n (%)			
Left	89 (37.7)	98 (40.3)	187 (39.0)
Right	147 (62.3)	145 (59.7)	292 (61.0)
No. of organs involved, n (%)^a			
≤2	122 (51.7)	129 (53.1)	251 (52.4)
≥3	114 (48.3)	114 (46.9)	228 (47.6)
Liver metastases, n (%)^a	144 (61.0)	156 (64.2)	300 (62.6)
CEA at baseline, n (%)			
≤5 µg/L	65 (27.5)	63 (25.9)	128 (26.7)
>5 µg/L	166 (70.3)	163 (67.1)	329 (68.7)
CRP at baseline, n (%)			
≤10 mg/L	125 (53.0)	119 (49.0)	244 (50.9)
>10 mg/L	105 (44.5)	107 (44.0)	212 (44.3)

Data cutoff: December 22, 2023.

^aBased on BICR.

BICR, blinded independent central review; CEA, carcinoembryonic antigen; CRP, C-reactive protein; EC, encorafenib plus cetuximab; ECOG PS, Eastern Cooperative Oncology Group performance status; mFOLFOX6, modified fluorouracil/leucovorin/oxaliplatin; SOC, standard of care.

BREAKWATER: Interim Overall Survival



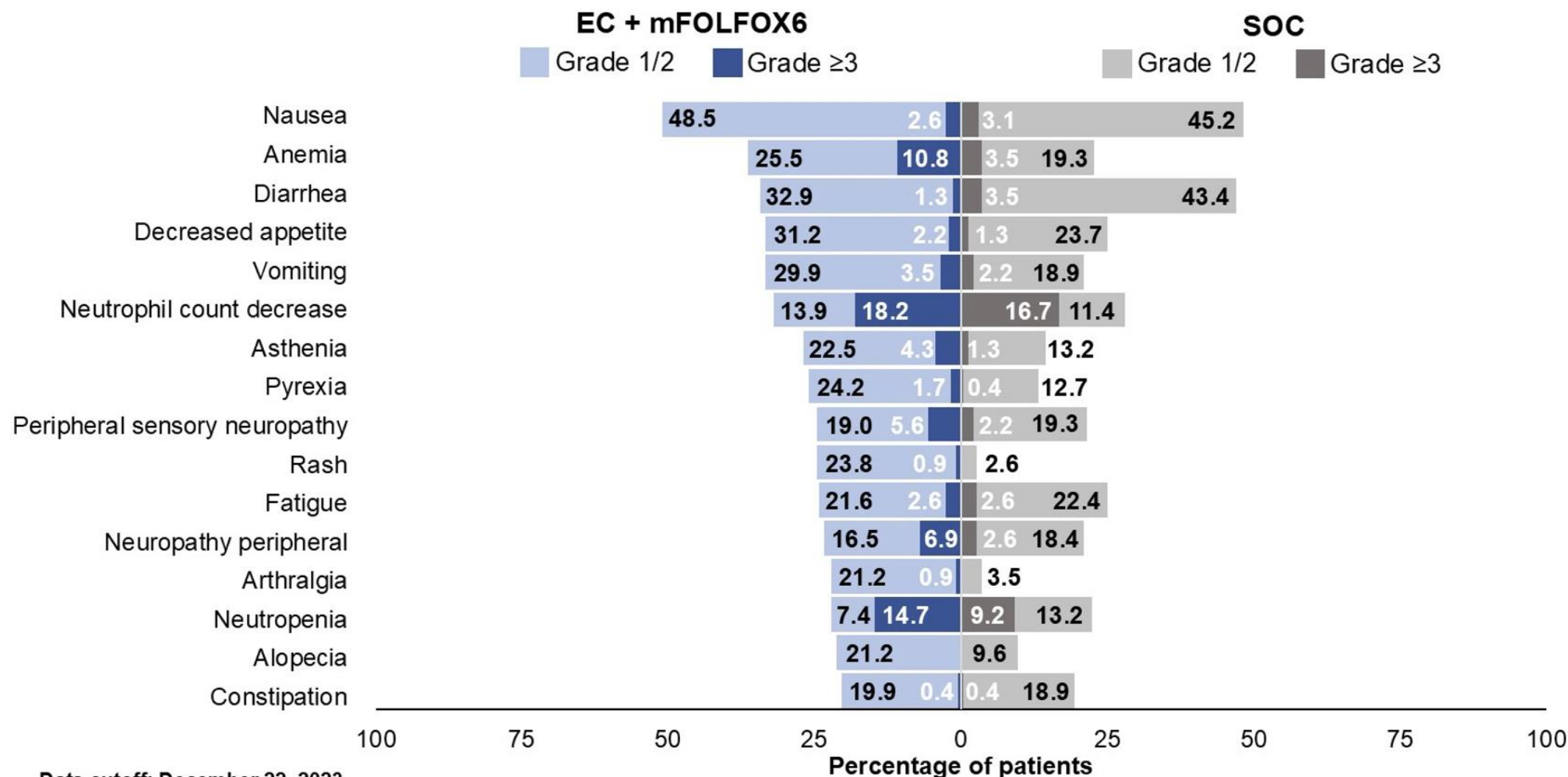
Data cutoff: December 22, 2023.

^aOS was tested following the prespecified plan with one-sided alpha of 0.000000083, calculated as a portion of the nominal one-sided alpha of 0.001. Statistical significance was not achieved at this time.

EC, encorafenib plus cetuximab; mFOLFOX6, modified fluorouracil/leucovorin/oxaliplatin; NE, not estimable; SOC, standard of care.

These results also formed the basis for the accelerated approval by the FDA (as part of Project FrontRunner) of EC + mFOLFOX6 for the treatment of patients with BRAF V600E-mutant mCRC—including in the first line setting

Most Frequent ($\geq 20\%$)^a All-Causality TEAEs



Data cutoff: December 22, 2023.

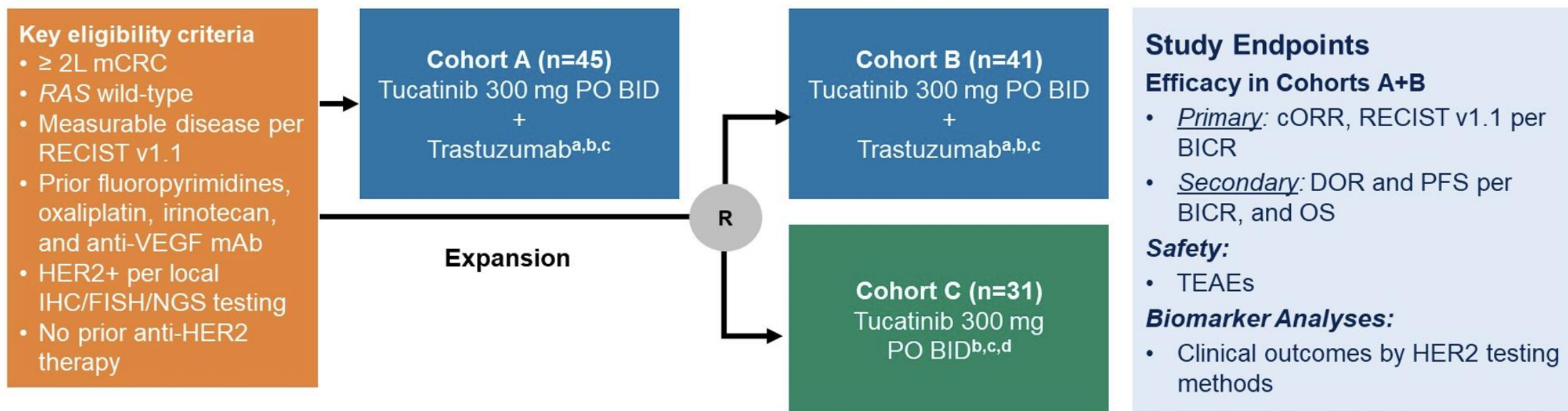
^aFrequency is based on the EC + mFOLFOX6 arm.

EC, encorafenib plus cetuximab; mFOLFOX6, modified fluorouracil/leucovorin/oxaliplatin; SOC, standard of care; TEAE, treatment-emergent adverse event.

BRAF V600E mutated mCRC

- Triplet chemotherapy versus targeted therapy + doublet
- Maintenance targeted therapy alone versus targeted therapy + chemo
- Tolerability

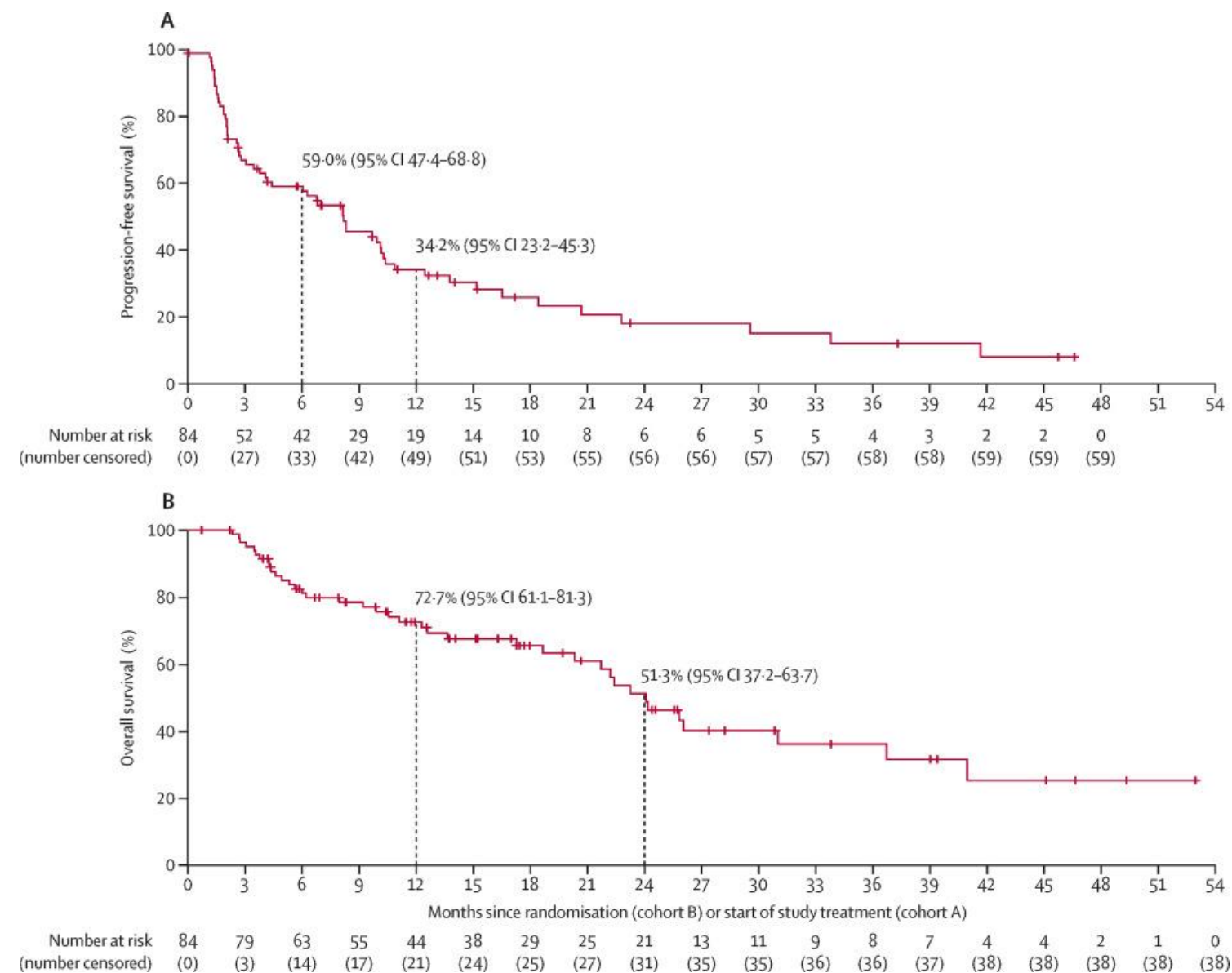
MOUNTAINEER: Multi-Center, Open-Label, Phase 2 Trial (NCT03043313)



For the final analysis (cutoff date of November 2, 2023), the efficacy and safety endpoints evaluated remained the same. Biomarker analyses, including a long-term responder analysis, were exploratory

^a 6 mg/kg Q3W (loading dose 8 mg/kg); ^b each treatment cycle is 21 days; ^c Patients remained on therapy until evidence of radiographic or clinical progression or death, unacceptable toxicity, withdrawal of consent, or study closure; ^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 partial or complete response by week 12. ≥ 2L, second line and later; BICR, blinded independent central review; BID, twice a day; cORR, confirmed objective response rate; DOR, duration of response; FISH, fluorescence in situ hybridization; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; mAb, monoclonal antibody; mCRC, metastatic colorectal cancer; NGS, next-generation sequencing; OS, overall survival; PFS, progression-free survival; PO, orally; Q3W, every 3 weeks; R, randomization; RAS, rat sarcoma virus; RECIST, Response Evaluation Criteria in Solid Tumors; TEAE, treatment-emergent adverse event; VEGF, vascular endothelial growth factor.

Figure 3: Kaplan-Meier estimates of progression-free survival by blinded independent central review (A) and overall survival (B) in patients treated with tucatinib plus trastuzumab, full analysis set (n=84)

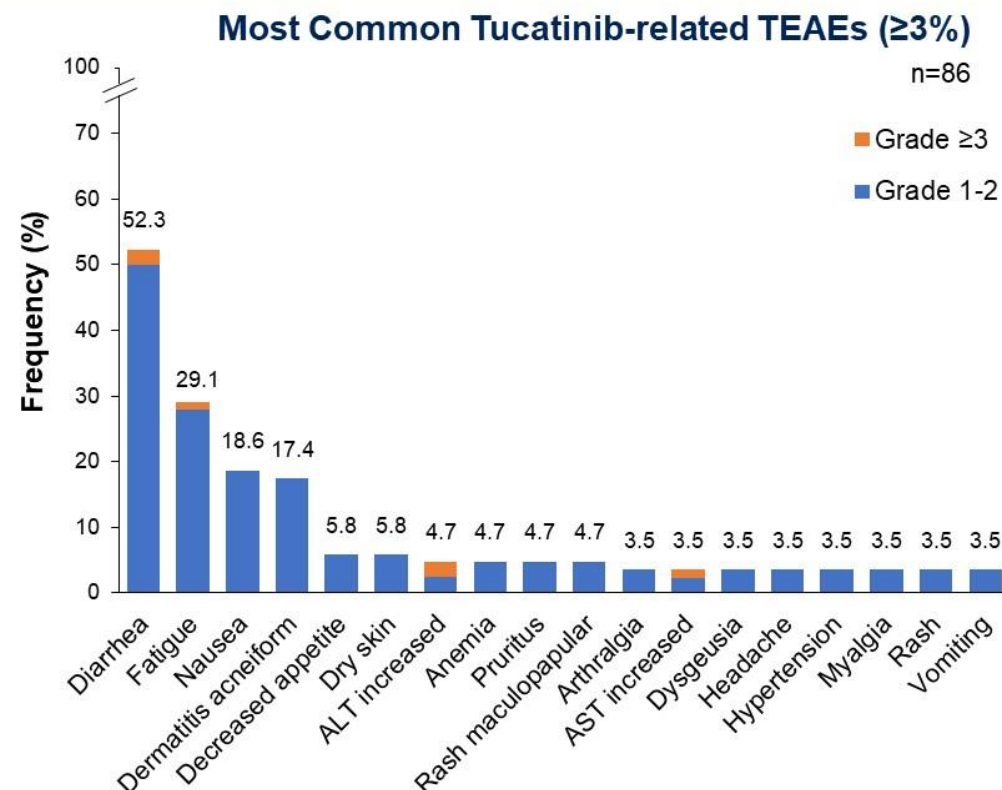
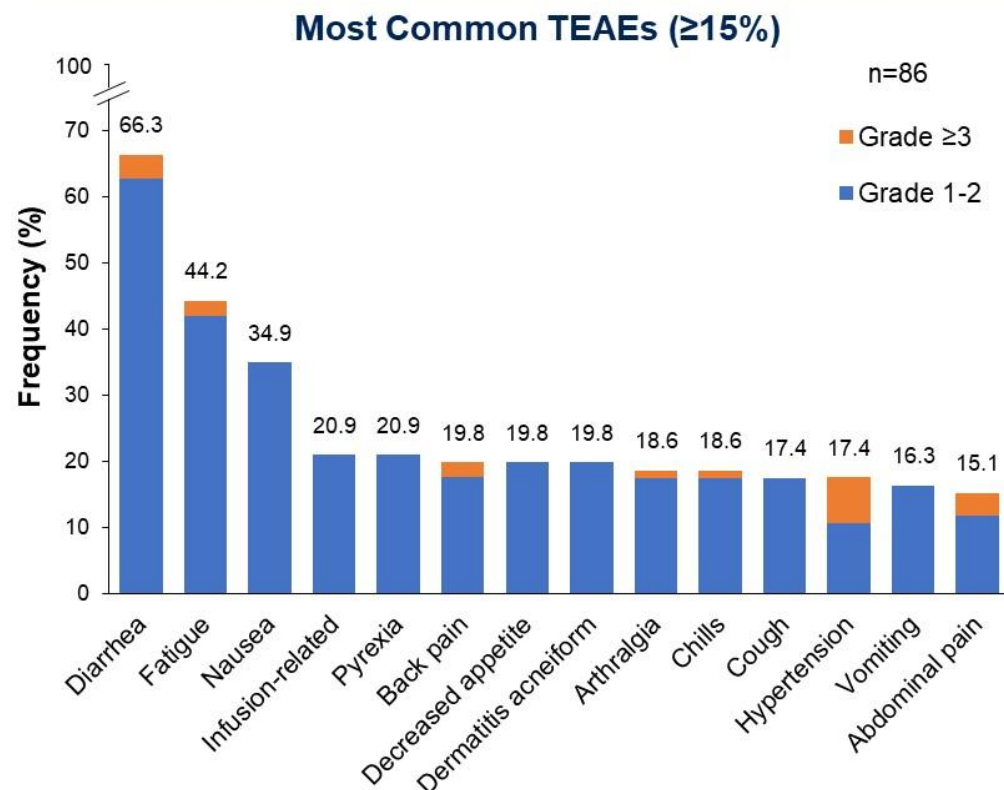


The median progression-free survival was 7.0 months (95% CI 4.3–9.7)

The median overall survival was 24.1 months (95% CI 20.3–36.7)

TEAEs in Cohorts A+B

- 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

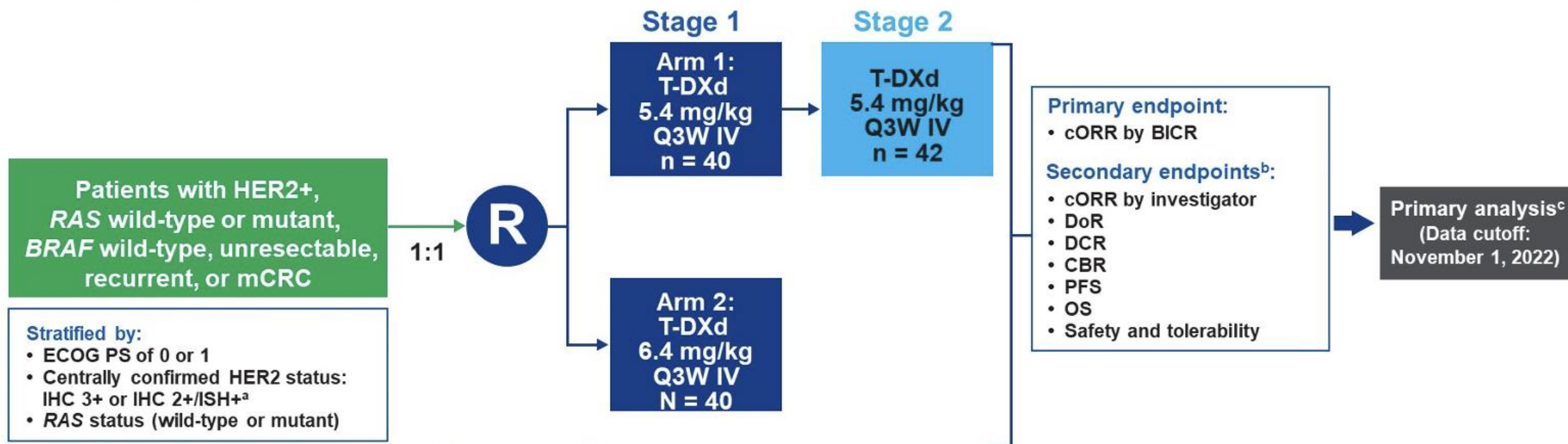


AE, adverse event; ALT, alanine aminotransferase; AST, aspartate aminotransferase; TEAE, treatment-emergent adverse event.

DESTINY-CRC02 Study Design

A randomized, blinded, 2-stage, 2-arm, multicenter, global, phase 2 study (NCT04744831)

- Stage 1 (randomized) was followed by Stage 2 (nonrandomized), which enrolled an additional 42 patients



This study was not powered to statistically compare the two arms.

BICR, blinded independent central review; *BRAF*, v-raf murine sarcoma viral oncogene homolog B1; CBR, clinical benefit rate; cORR, confirmed objective response rate; DCR, disease control rate; DoR, duration of response; ECOG PS, Eastern Cooperative Oncology Group performance status; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; IV, intravenously; mCRC, metastatic colorectal cancer; OS, overall survival; PFS, progression-free survival; Q3W, every 3 weeks; R, randomization; *RAS*, rat sarcoma; T-DXd, trastuzumab deruxtecan.

Both investigators and patients were blind to treatments.

^aHER2 status was assessed with the Roche VENTANA HER2 Dual ISH DNA probe cocktail assay (IUO). ^bExploratory endpoints included best percent change in the sum of diameters of measurable tumors based on BICR and investigator. ^cPrimary analysis occurred ≥6 months after the last patient had been enrolled or when all patients discontinued from the study, whichever was earlier.

Baseline Characteristics

	T-DXd 5.4 mg/kg Q3W			T-DXd 6.4 mg/kg Q3W
	Stage 1 n = 40	Stage 2 n = 42	Total N = 82	Stage 1 N = 40
Median age, years (range)	58.2 (26-78)	60.6 (30-84)	59.1 (26-84)	62.3 (35-81)
Sex, n (%)				
Male	21 (52.5)	24 (57.1)	45 (54.9)	19 (47.5)
Region, n (%)				
Asia-Pacific	25 (62.5)	22 (52.4)	47 (57.3)	24 (60.0)
US	5 (12.5)	1 (2.4)	6 (7.3)	2 (5.0)
Europe	10 (25.0)	19 (45.2)	29 (35.4)	14 (35.0)
HER2 status, n (%)				
IHC 3+	32 (80.0)	32 (76.2)	64 (78.0)	34 (85.0)
IHC 2+/ISH+	8 (20.0)	10 (23.8)	18 (22.0)	6 (15.0)
ECOG PS, n (%)				
0	22 (55.0)	24 (57.1)	46 (56.1)	22 (55.0)
1	18 (45.0)	18 (42.9)	36 (43.9)	18 (45.0)
RAS status, n (%)				
Wild-type	34 (85.0)	34 (81.0)	68 (82.9)	34 (85.0)
Mutant	6 (15.0)	8 (19.0)	14 (17.1)	6 (15.0)

ECOG PS, Eastern Cooperative Oncology Group performance status; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; Q3W, every 3 weeks;
RAS, rat sarcoma; T-DXd, trastuzumab deruxtecan.

Prior Treatment

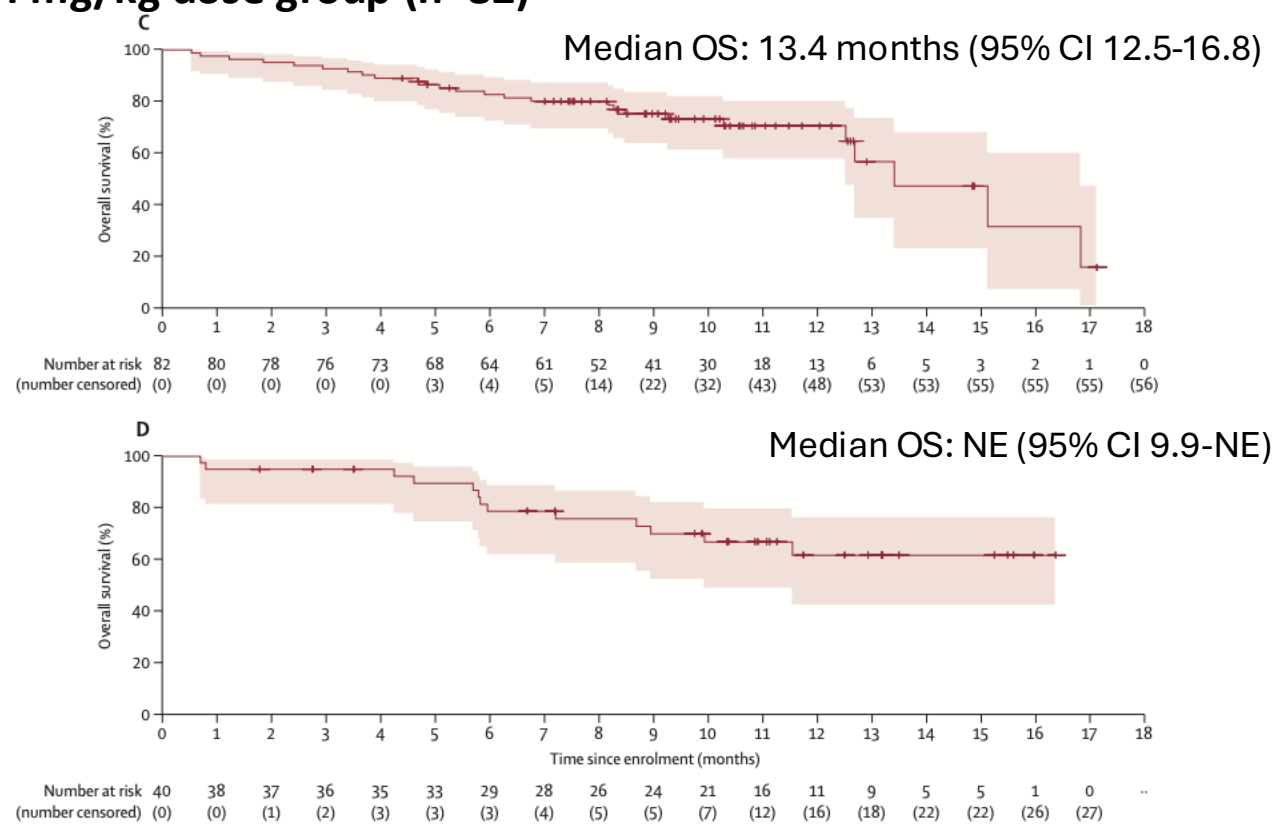
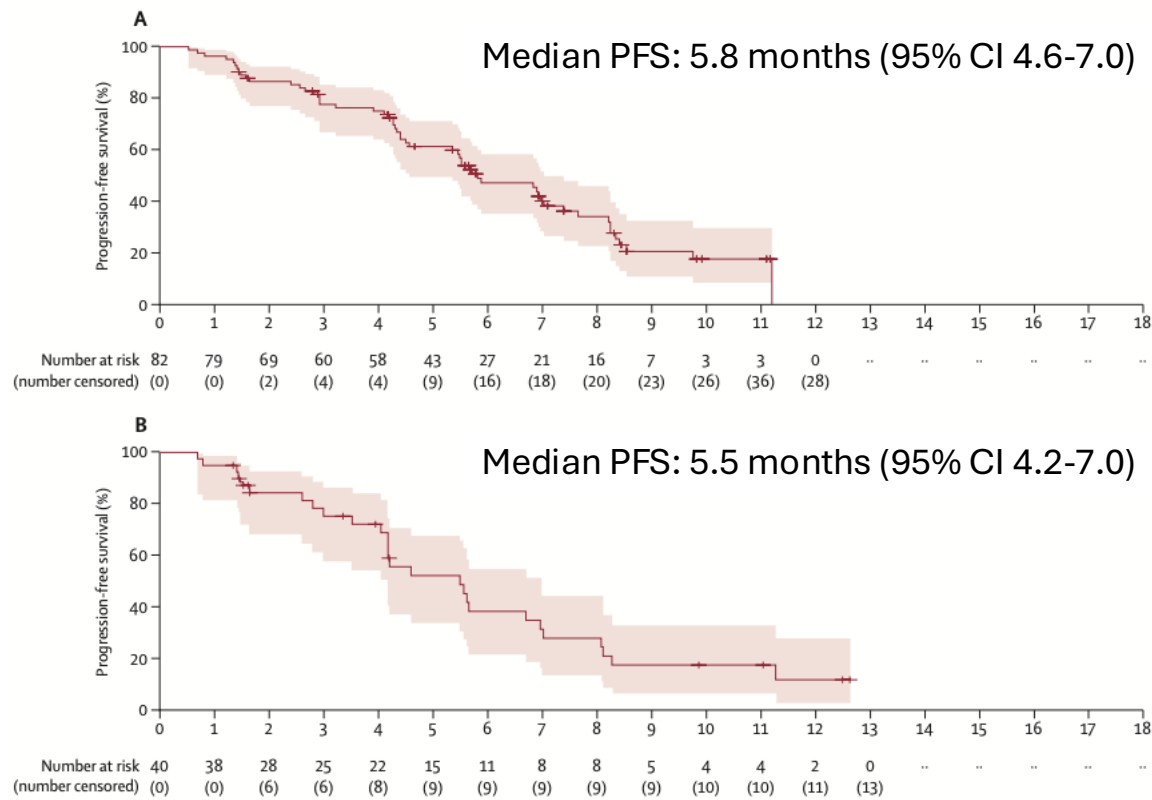
	T-DXd 5.4 mg/kg Q3W			T-DXd 6.4 mg/kg Q3W
	Stage 1 n = 40	Stage 2 n = 42	Total N = 82	Stage 1 N = 40
Median prior lines of systemic therapy, n (range)	4 (1-12)	3 (1-7)	3 (1-12)	4 (1-8)
Systemic chemotherapy, n (%)	40 (100)	42 (100)	82 (100)	40 (100)
Irinotecan	39 (97.5)	40 (95.2)	79 (96.3)	40 (100)
Fluoropyrimidines ^a	40 (100)	42 (100)	82 (100)	40 (100)
Oxaliplatin	40 (100)	41 (97.6)	81 (98.8)	40 (100)
Anti-EGFR, n (%)	29 (72.5)	28 (66.7)	57 (69.5)	31 (77.5)
Anti-HER2, n (%)	11 (27.5)	6 (14.3)	17 (20.7)	10 (25.0)
HER2 TKI ^b	6 (15.0)	4 (9.5)	10 (12.2)	7 (17.5)
Anti-HER2 antibodies ^c	10 (25.0)	6 (14.3)	16 (19.5)	10 (25.0)
Anti-VEGF, n (%)	36 (90.0)	38 (90.5)	74 (90.2)	38 (95.0)
Regorafenib and tipiracil/trifluridine, n (%)	20 (50.0)	14 (33.3)	34 (41.5)	13 (32.5)
Other systemic therapy, n (%)	5 (12.5)	6 (14.3)	11 (13.4)	10 (25.0)

5FU, fluorouracil; EGFR, epidermal growth factor receptor; HER2, human epidermal growth factor receptor 2; Q3W, every 3 weeks; T-DXd, trastuzumab deruxtecan; TKI, tyrosine kinase inhibitor; VEGF, vascular endothelial growth factor.

^aIncludes 5FU, capecitabine, S1, or tegafur. ^bIncludes tucatinib and lapatinib. ^cIncludes trastuzumab, trastuzumab duocarmazine, trastuzumab emtansine, pertuzumab, and zanidatamab (ZW25).

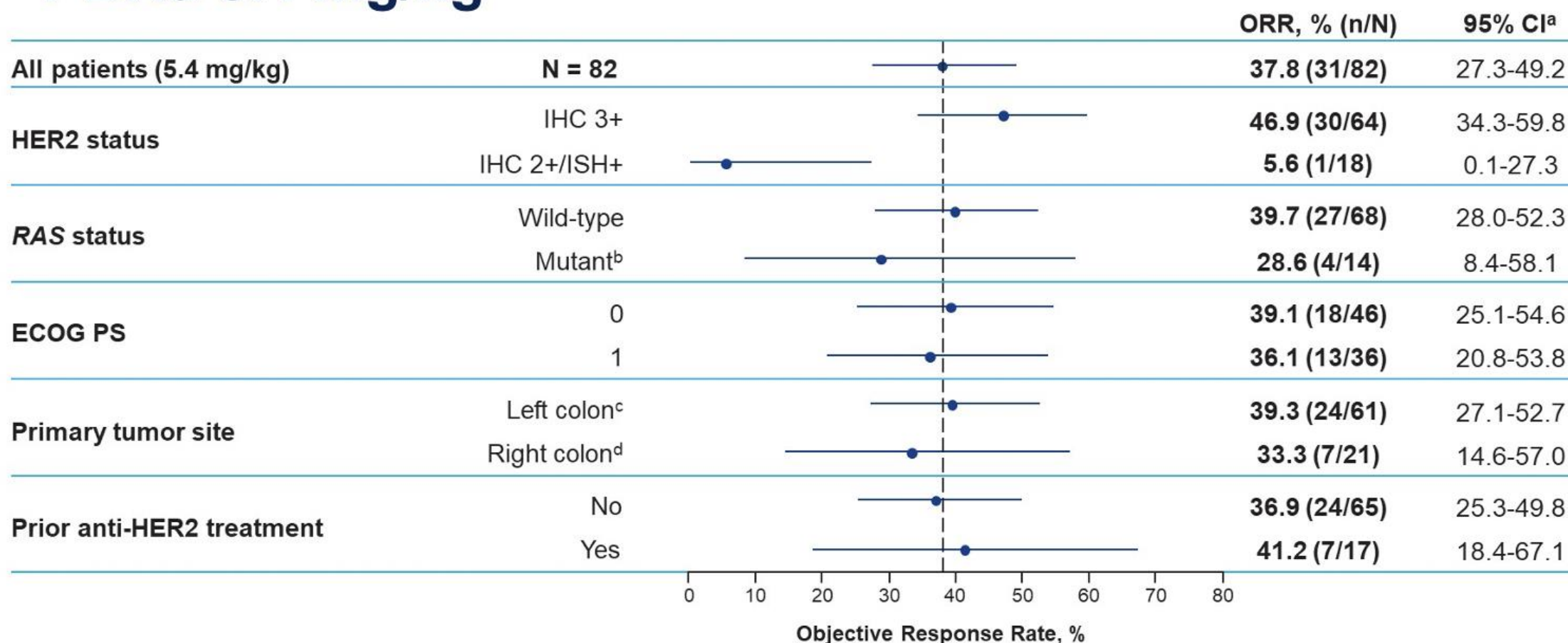
DESTINY-CRC02: PFS and OS

Trastuzumab deruxtecan 5·4 mg/kg dose group (n=82)



Trastuzumab deruxtecan 6·4 mg/kg dose group (n=40)

Best Overall Response by BICR by Subgroup With T-DXd 5.4 mg/kg



BICR, blinded independent central review; ECOG PS, Eastern Cooperative Oncology Group Performance Status; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; ORR, objective response rate; RAS, rat sarcoma; T-DXd, trastuzumab deruxtecan.

^aBased on the exact Clopper-Pearson method for binomial distribution. ^bAll RASm responders were IHC 3+. ^cIncludes rectum, sigmoid, and descending. ^dIncludes cecum, ascending, and transverse.

CODEBREAK 300

Inclusion Criteria:

- KRAS G12C mutated mCRC
- Received ≥ 1 prior line of therapy for mCRC, including oxaliplatin, irinotecan, 5FU if eligible
- No prior KRAS inhibitor

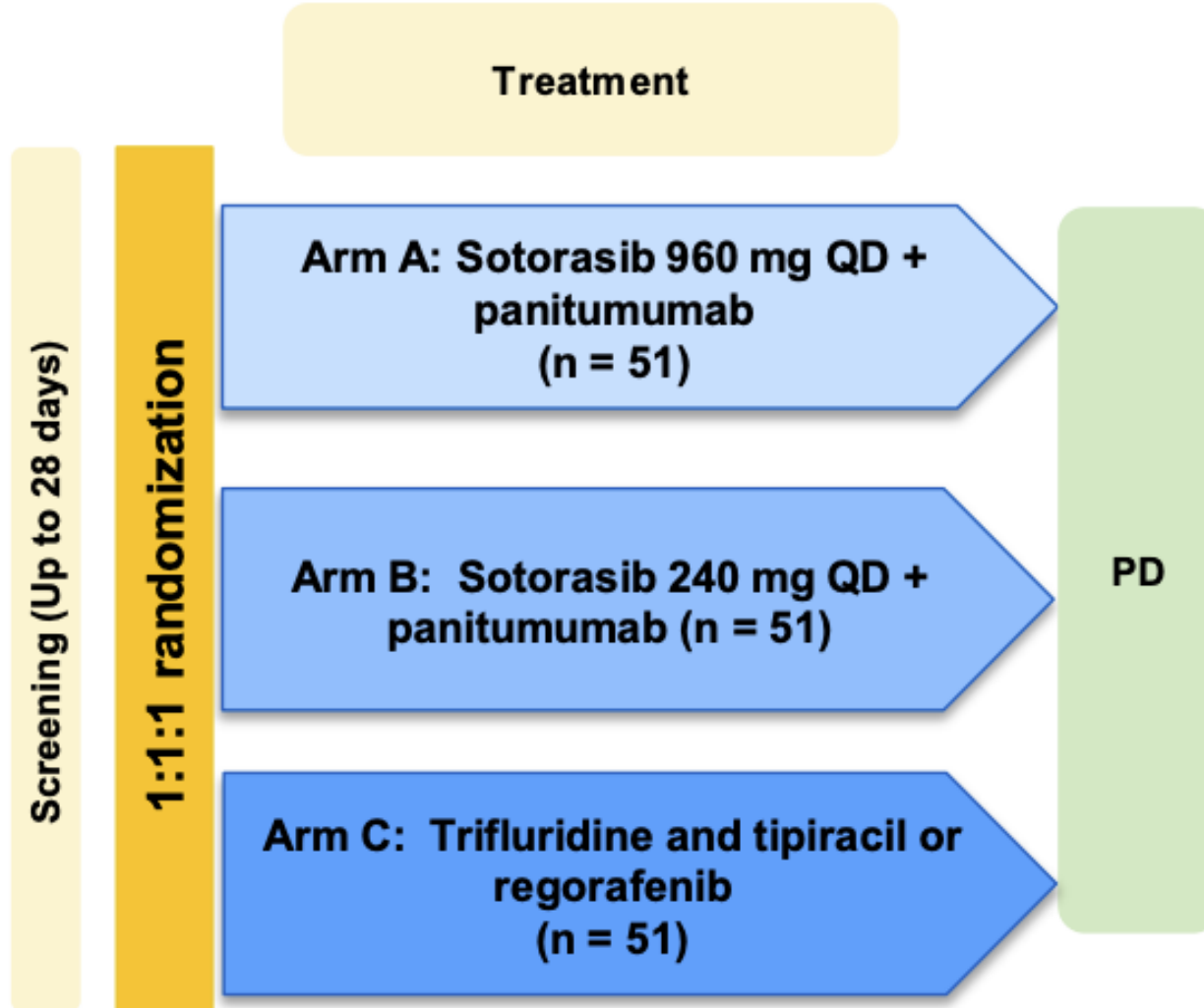
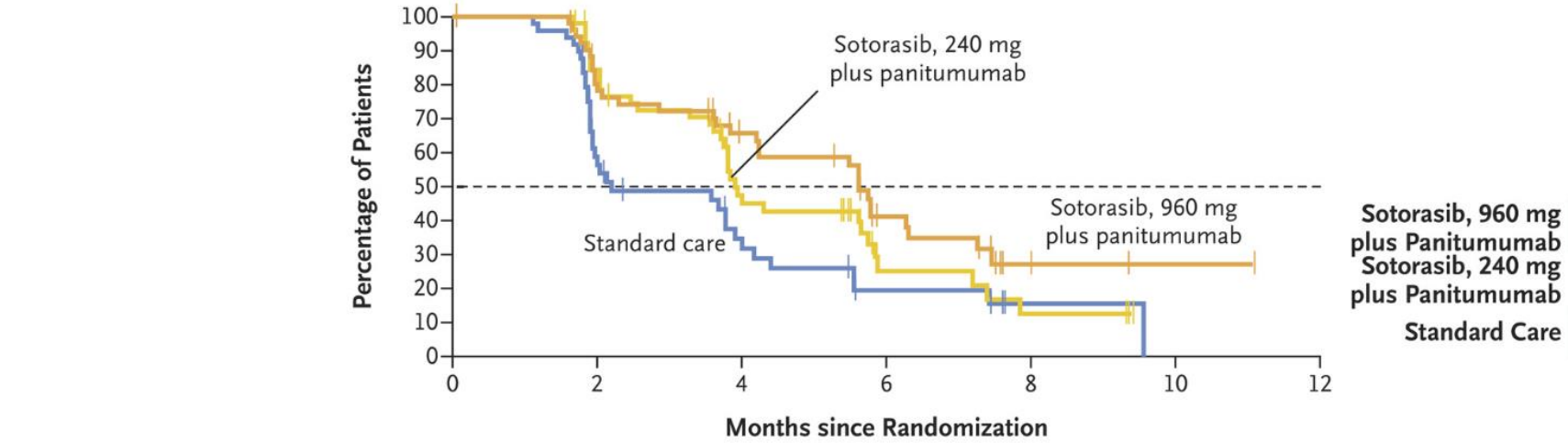


Table 1. Demographic and Clinical Characteristics at Baseline.*			
Characteristic	960-mg Sotorasib–Panitumumab (N=53)	240-mg Sotorasib–Panitumumab (N=53)	Standard Care (N=54)
Median age (range) — yr	63.0 (37–79)	58.0 (35–82)	64.5 (34–81)
Age category — no. (%)			
<65 yr	32 (60.4)	39 (73.6)	27 (50.0)
≥65 yr	21 (39.6)	14 (26.4)	27 (50.0)
Male sex — no. (%)	29 (54.7)	26 (49.1)	24 (44.4)
Geographic region of enrollment — no. (%)			
North America	5 (9.4)	5 (9.4)	7 (13.0)
Europe	41 (77.4)	28 (52.8)	36 (66.7)
Asia	6 (11.3)	19 (35.8)	11 (20.4)
Rest of the world	1 (1.9)	1 (1.9)	0
Race — no. (%)†			
Asian	6 (11.3)	22 (41.5)	12 (22.2)
Black	0	1 (1.9)	0
White	43 (81.1)	30 (56.6)	37 (68.5)
Other	4 (7.5)	0	5 (9.3)
Previous antiangiogenic therapy — no. (%)	45 (84.9)	47 (88.7)	48 (88.9)
Time from initial diagnosis of metastatic disease to randomization — no. (%)			
≥18 mo	29 (54.7)	29 (54.7)	31 (57.4)
<18 mo	24 (45.3)	22 (41.5)	23 (42.6)
Unknown	0	2 (3.8)	0
ECOG performance-status score — no. (%)‡			
0	32 (60.4)	29 (54.7)	35 (64.8)
1	19 (35.8)	22 (41.5)	18 (33.3)
2	2 (3.8)	2 (3.8)	1 (1.9)
Body site at initial diagnosis — no. (%)			
Colon	37 (69.8)	32 (60.4)	37 (68.5)
Rectum	16 (30.2)	21 (39.6)	17 (31.5)
Location of tumor — no. (%)			
Left side	28 (52.8)	36 (67.9)	37 (68.5)
Right side	24 (45.3)	17 (32.1)	16 (29.6)
Unknown	1 (1.9)	0	1 (1.9)
No. of lines of previous anticancer therapy			
1 — no. (%)	7 (13.2)	8 (15.1)	9 (16.7)
≥2 — no. (%)	46 (86.8)	45 (84.9)	45 (83.3)
Median	2	2	2
Previous treatment with oxaliplatin, irinotecan, and fluoropyrimidine — no. (%)	49 (92.5)	50 (94.3)	51 (94.4)
Previous treatment with trifluridine and tipiracil — no. (%)	7 (13.2)	7 (13.2)	6 (11.1)
Previous treatment with regorafenib — no. (%)	4 (7.5)	1 (1.9)	2 (3.7)
Microsatellite instability status — no. (%)			
High	1 (1.9)	0	0
Stable	42 (79.2)	42 (79.2)	43 (79.6)
Low	3 (5.7)	2 (3.8)	3 (5.6)
Unknown or not tested	7 (13.2)	9 (17.0)	8 (14.8)

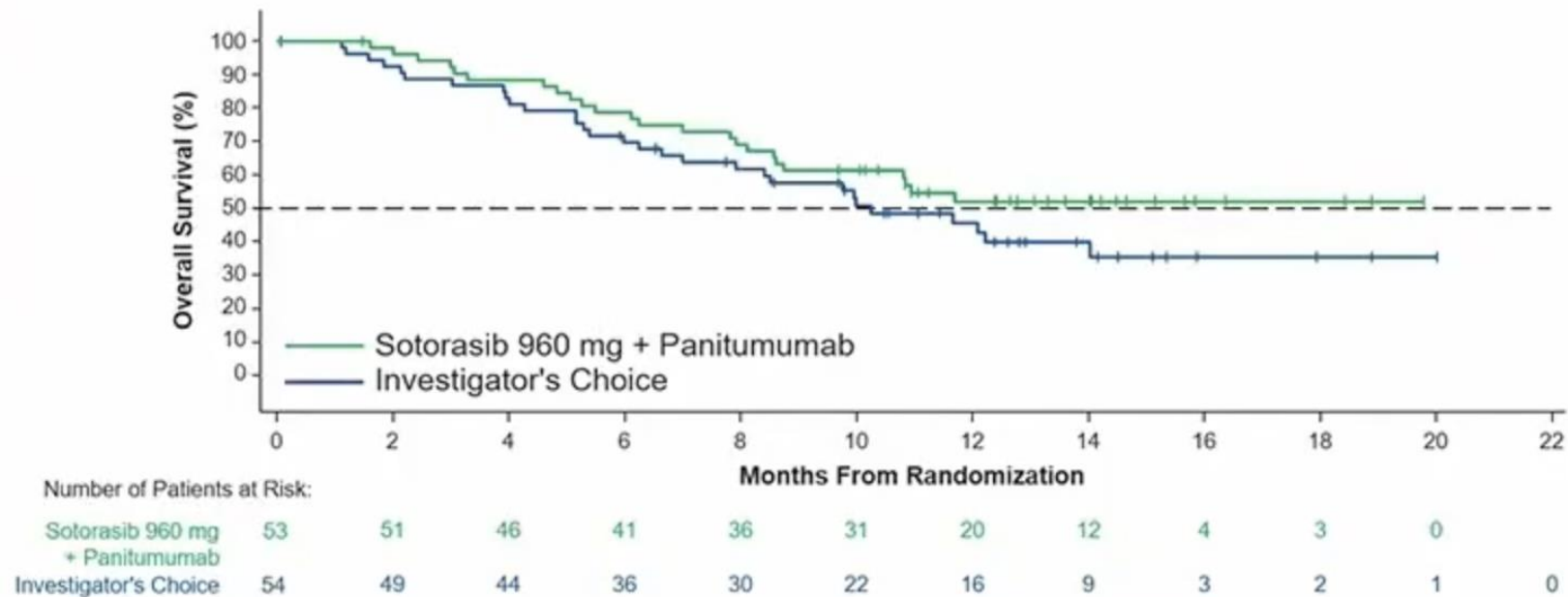
* Percentages may not sum to 100 because of rounding.
† Race was either reported by the patient or determined by the investigator.
‡ The Eastern Cooperative Oncology Group (ECOG) performance-status scores range from 0 to 5, with higher scores indicating greater disability.

A Progression-free Survival (Intention-to-Treat Population)

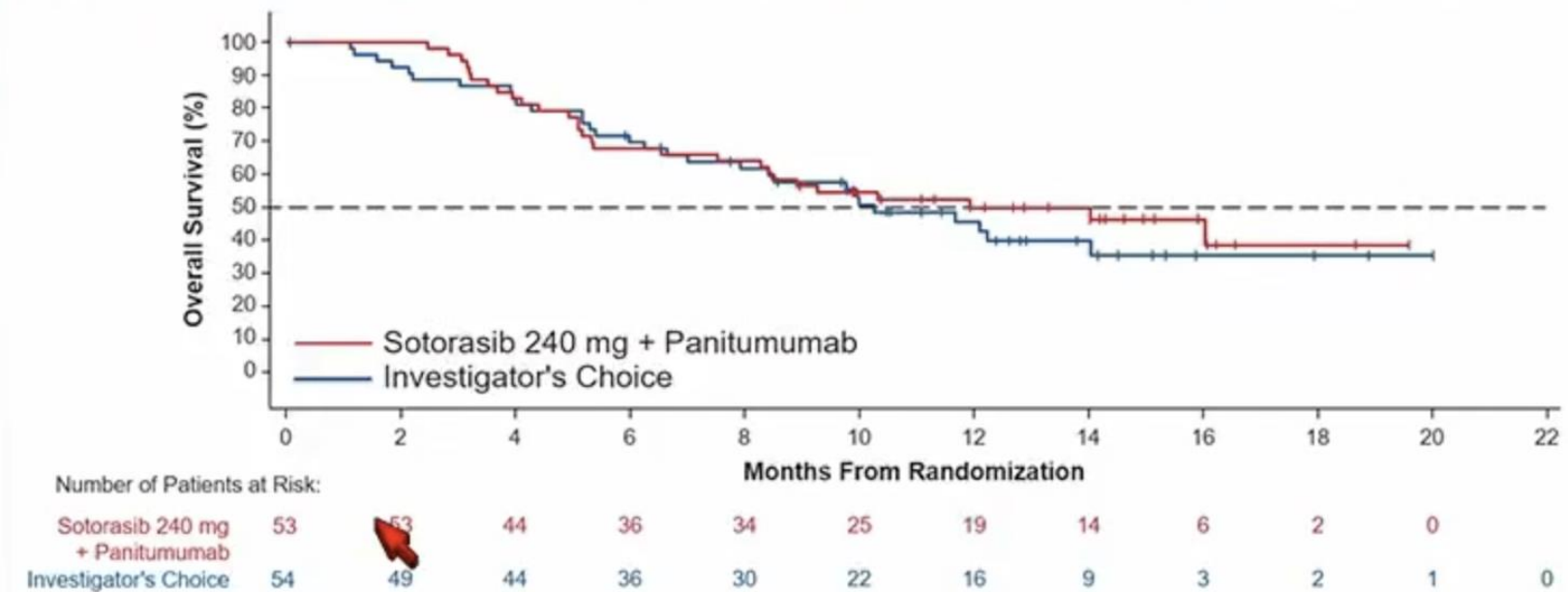


No. at Risk							
Sotorasib, 960 mg plus panitumumab	53	40	28	13	2	1	0
Sotorasib, 240 mg plus panitumumab	53	43	20	6	3	0	
Standard care	54	24	12	5	1	0	

	Median Progression-free Survival <i>mo</i>	Hazard Ratio for Disease Progression or Death (95% CI)	Two-Sided P Value
Sotorasib, 960 mg plus Panitumumab	5.62	0.48 (0.30–0.78)	0.005
Sotorasib, 240 mg plus Panitumumab	3.91	0.59 (0.37–0.95)	0.036
Standard Care	2.04		



	Soto960 +Pani (N=53)	Soto240+Pani (N=53)	Investigator Choice (N=54)
Median OS (mo)	NE (8.6, NE)	11.9 (7.5,NE)	10.2 (7.0,NE)
HR	0.70 (0.41,1.18)	0.83 (0.49,1.39)	
Median FU (mo)	13.6	14.0	12.9
ORR%	30.2 (18.3,44.3)	7.5 (21,18.2)	1.9 (0.0,9.9)
Median DOR (mo)	10.1 (3.1,12.9+)	NR (5.6,11.2+)	NR (5.2,5.2)



Will MOUNTAINEER-3 and CodeBreakK-301 be the new BREAKWATER?

MOUNTAINEER-3

Study population

Measurable disease per RECIST v1.1
ECOG PS 0-1

HER2+, RAS WT locally advanced unresectable or metastatic CRC

Patients may have received chemotherapy for CRC in the adjuvant treatment if completed > 6 months prior to enrollment (Cycle 1 Day 1).

Patients may have received up to two doses of mFOLFOX6 in the locally advanced unresectable or metastatic setting prior to randomization.

1:1 randomization

Tucatinib experimental arm

Tucatinib 300 mg PO BID
Trastuzumab 8 mg/kg loading dose,
then 6 mg/kg IV (Q3W)
mFOLFOX6 (Q2W)

N=200

Standard of care control arm

mFOLFOX6 (Q2W), or
mFOLFOX6 (Q2W) + bevacizumab (Q2W),
or
mFOLFOX6 (Q2W) + cetuximab (QW)

N=200

Primary endpoint:
PFS (assessed by BICR)

Key secondary endpoint:
OS

CodeBreakK-301

Study Population

Measurable disease per RECIST v1.1

KRAS G12C mut

Treatment naïve in metastatic setting

1:1 randomization

Sotorasib experimental arm

Sotorasib 960 mg + panitumumab
6mg/kg (Q2W) + FOLFIRI

N=225

FOLFIRI + bev

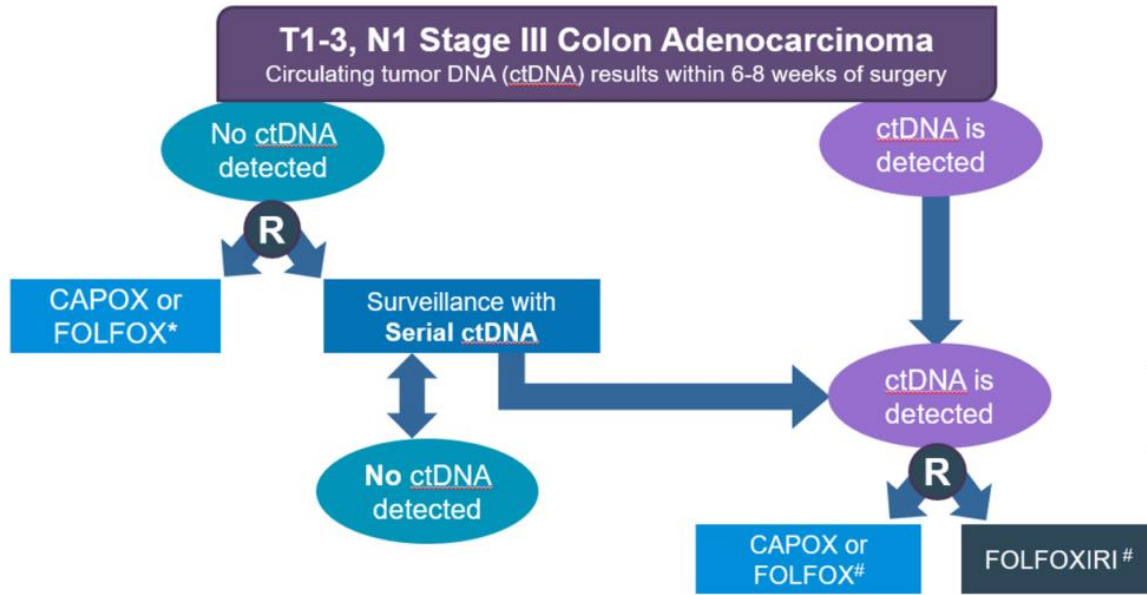
N=225

Primary endpoint:
PFS (assessed by RECIST)

Key secondary endpoint:
OS

Looking ahead...

CIRCULATE-US

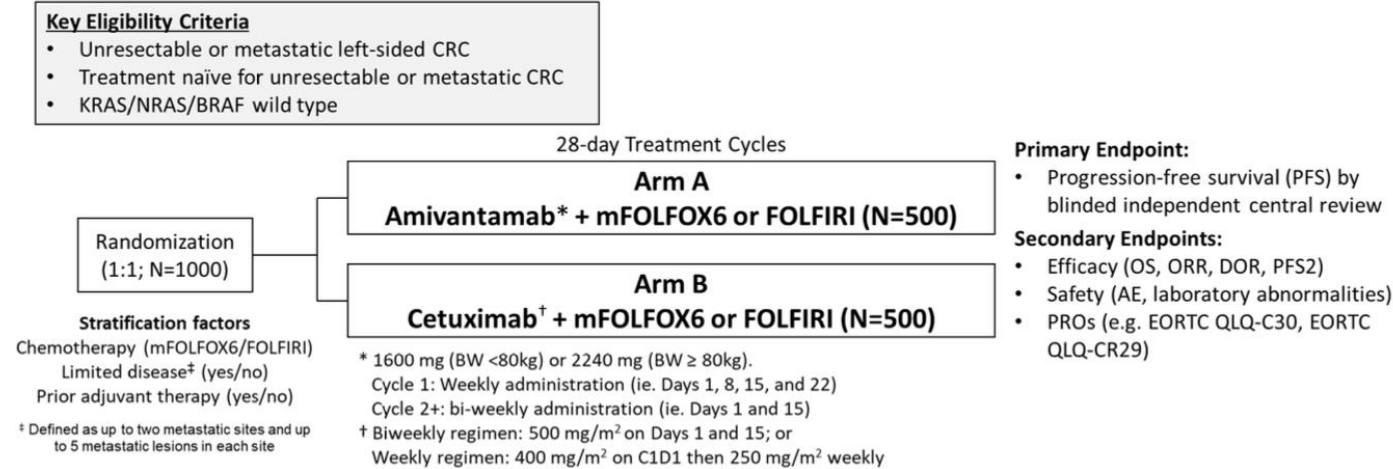


Primary endpoint: DFS

Pan-KRAS inhibitors:

- In combination with cetuximab/panitumumab
- In combination with chemotherapy
- In 1st, 2nd, and 3rd line

OrigAMI-2



A Randomized, Phase 3, Open-Label Study Comparing Botensilimab Plus Balstilimab with Investigator Choice Standard of Care Therapy in Participants with Previously Treated Metastatic Colorectal Cancer and No Active Liver Metastases

Questions?