

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

Agenda

Module 1 — Breast Cancer: *Drs Burstein, Goetz, McArthur and Nanda*

Module 2 — Prostate Cancer: *Drs Antonarakis and M Smith*

Module 3 — Colorectal Cancer: *Drs Lieu and Strickler*

Module 4 — Diffuse Large B-Cell Lymphoma and Follicular Lymphoma: *Drs Lunning and S Smith*

Colorectal Cancer Faculty



Christopher Lieu, MD

Professor of Medicine
Associate Director for Clinical Research
Director, GI Medical Oncology
University of Colorado Cancer Center
Aurora, Colorado



John Strickler, MD

Professor of Medicine
Associate Director, Clinical Research – GI
Co-Leader, Molecular Tumor Board
Duke University
Durham, North Carolina



Cancer Center

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COMPREHENSIVE CANCER CENTER

Current and Future Role of Immune Checkpoint Inhibitors in the Management of Colorectal Cancer

Christopher Lieu, MD
Director, GI Medical Oncology
Associate Director for Clinical Research
University of Colorado



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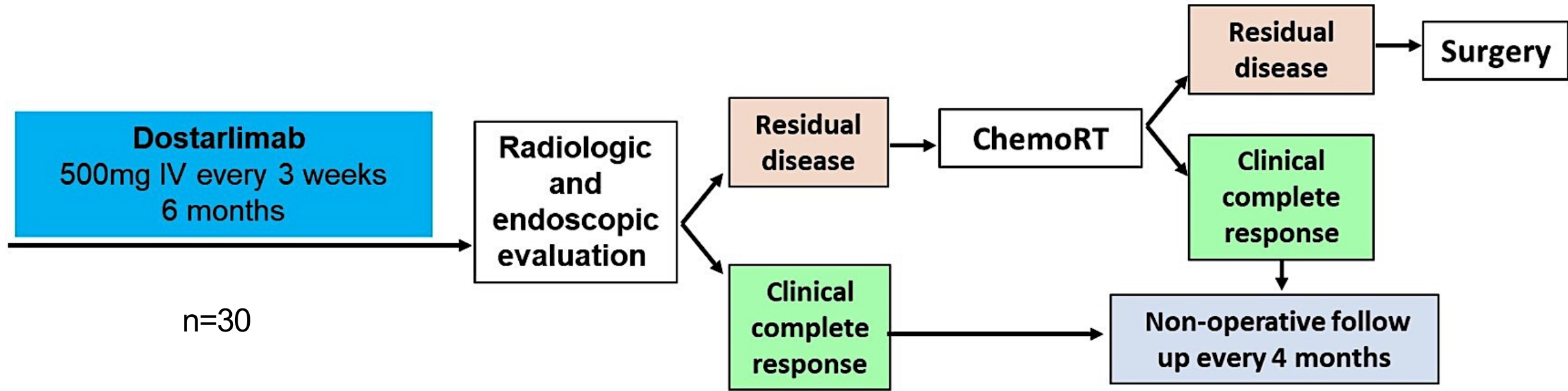
Topics for Discussion

- Neoadjuvant and adjuvant immune checkpoint inhibitors for MSI-H/dMMR colon and rectal cancers
 - *Should immunotherapy go first, or after surgery?*
- Immunotherapy in the first-line setting for MSI-H/dMMR colorectal cancer
 - *Is doublet better than single-agent?*
- Immunotherapy for MSS/pMMR metastatic colorectal cancer

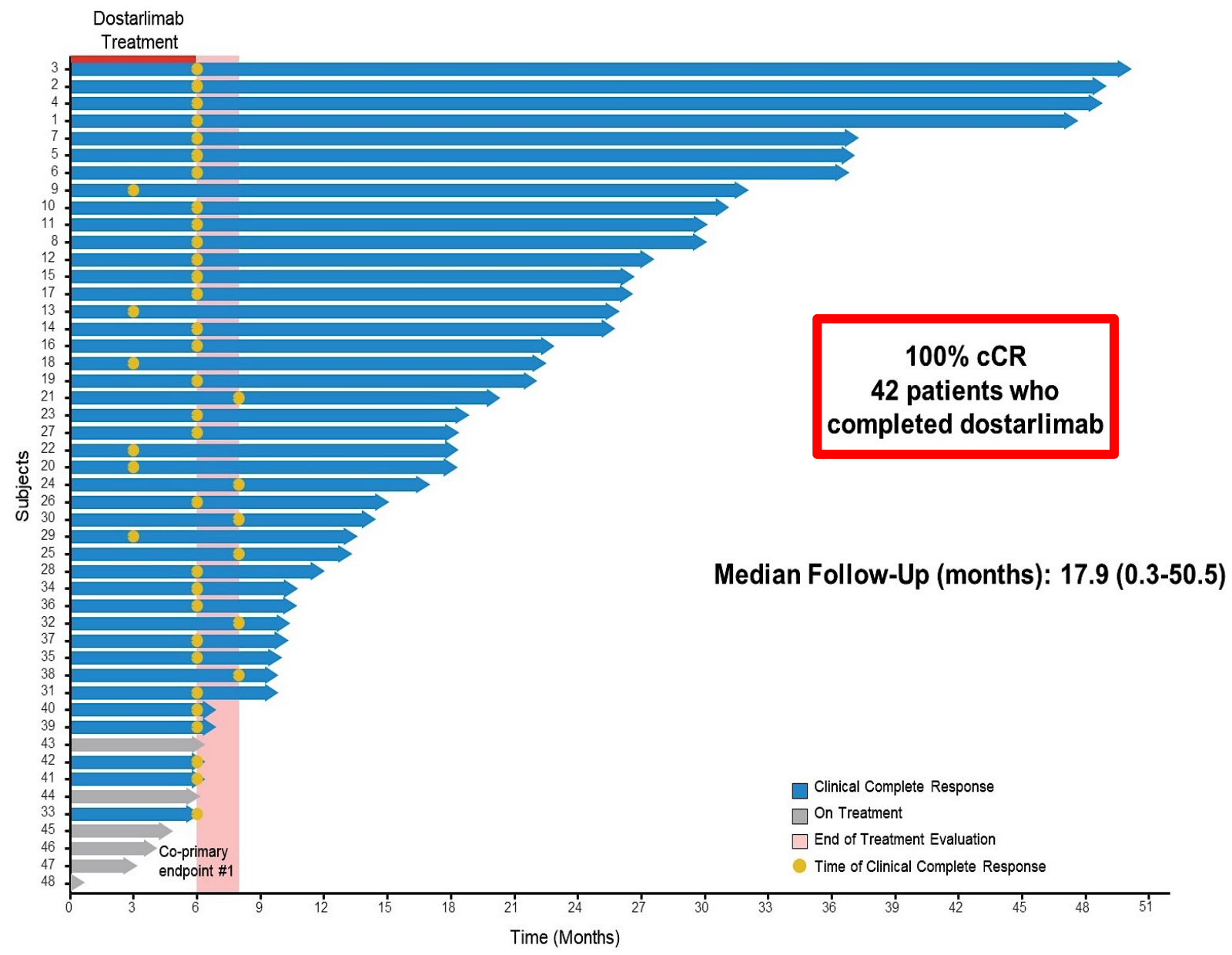


Immune checkpoint inhibitors for patients with non-metastatic rectal cancer

Dostarlimab for MSI-H Stage II-III Rectal Cancer



- Primary endpoints
 - Overall response rate at 6 months per MSKCC regression criteria
 - pCR or cCR rate at 12 months
- Secondary endpoint
 - Safety and tolerability

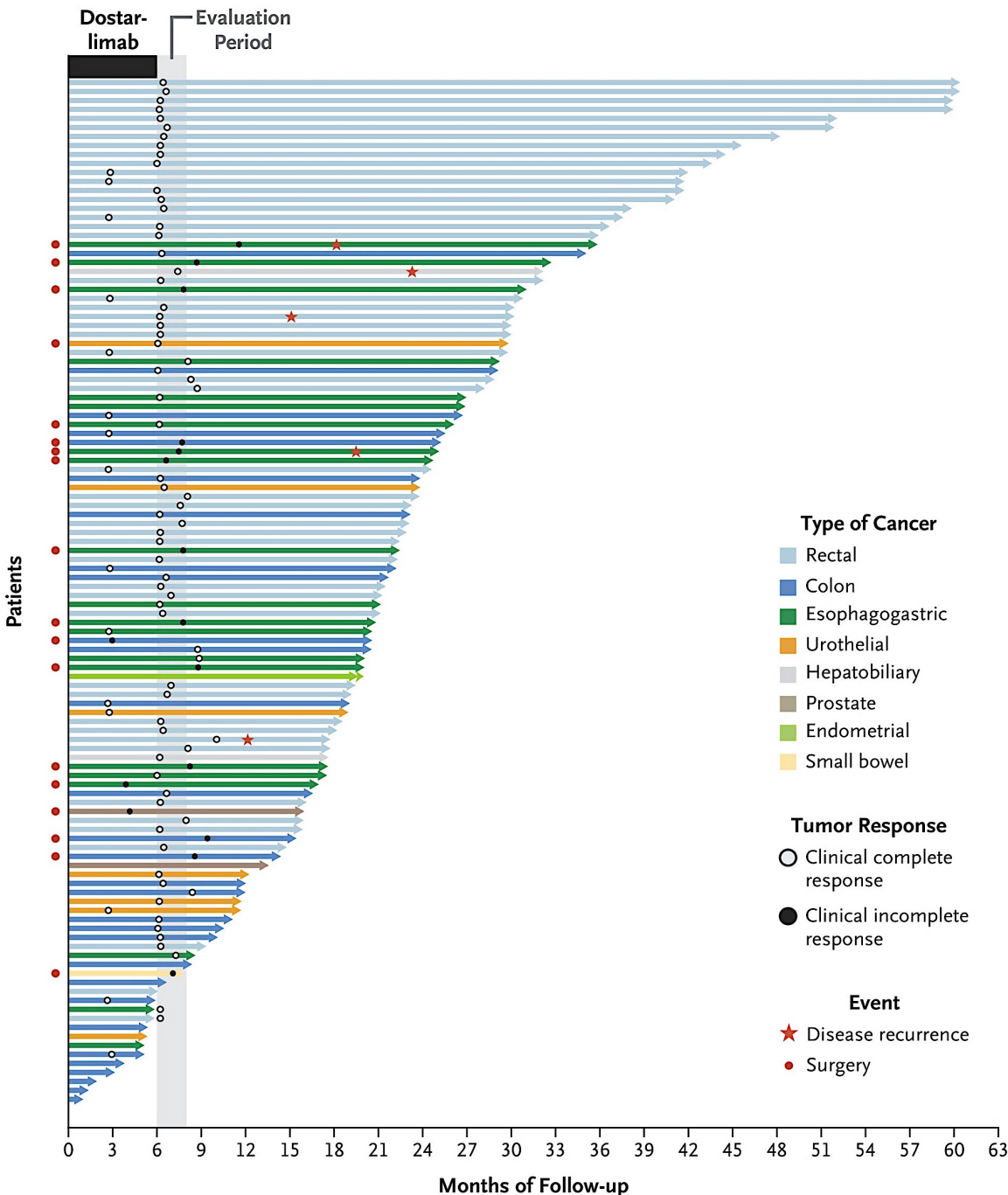
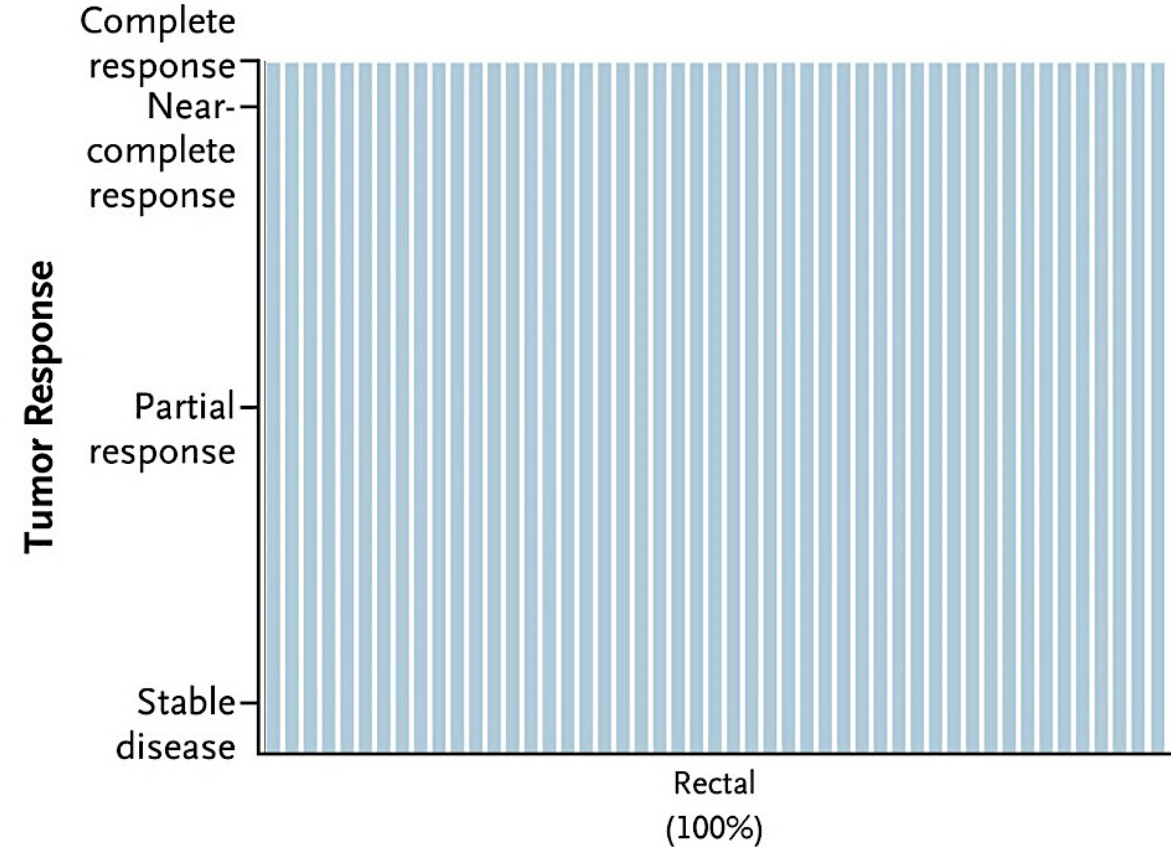


Most Common AEs

	All Grades	Grade 3 or 4
Dermatologic -no.(%)		
Pruritus	6 (13)	0 (0)
Rash / dermatitis	10 (21)	0 (0)
Gastrointestinal-no.(%)		
Diarrhea	4 (9)	0 (0)
Nausea	4 (9)	0 (0)
Constitutional-no.(%)		
Fatigue	5 (11)	0 (0)
Fever	3 (6)	0 (0)
Endocrine-no.(%)		
Hypothyroidism	5 (11)	0 (0)

Dostarlimab for MSI-H Stage II-III Rectal Cancer

Updated data (2025)



Take Home Points:

Neoadjuvant immune checkpoint inhibition appears ready for primetime for rectal dMMR/MSI-H

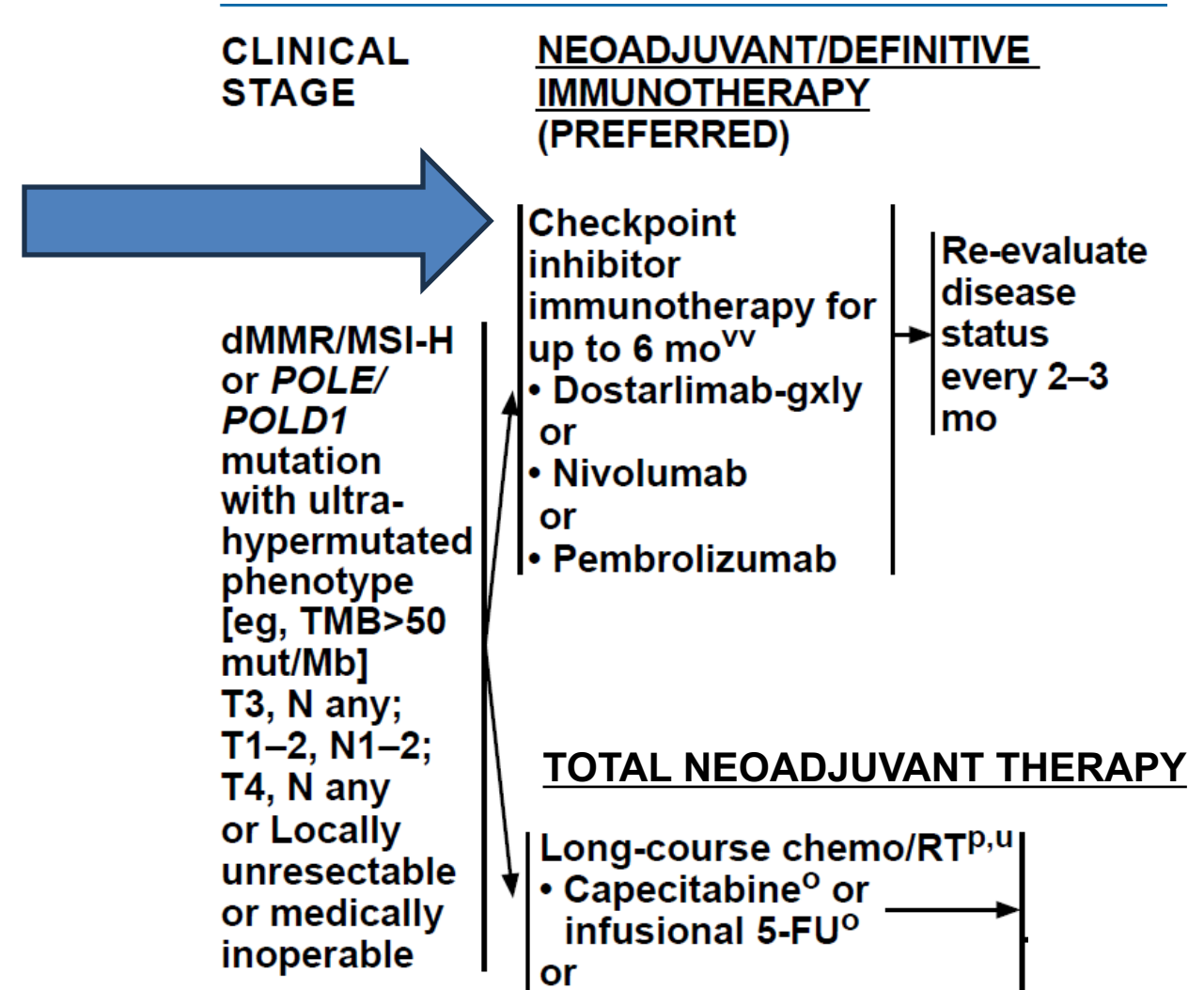
QUESTIONS:

What about stage I rectal cancer?

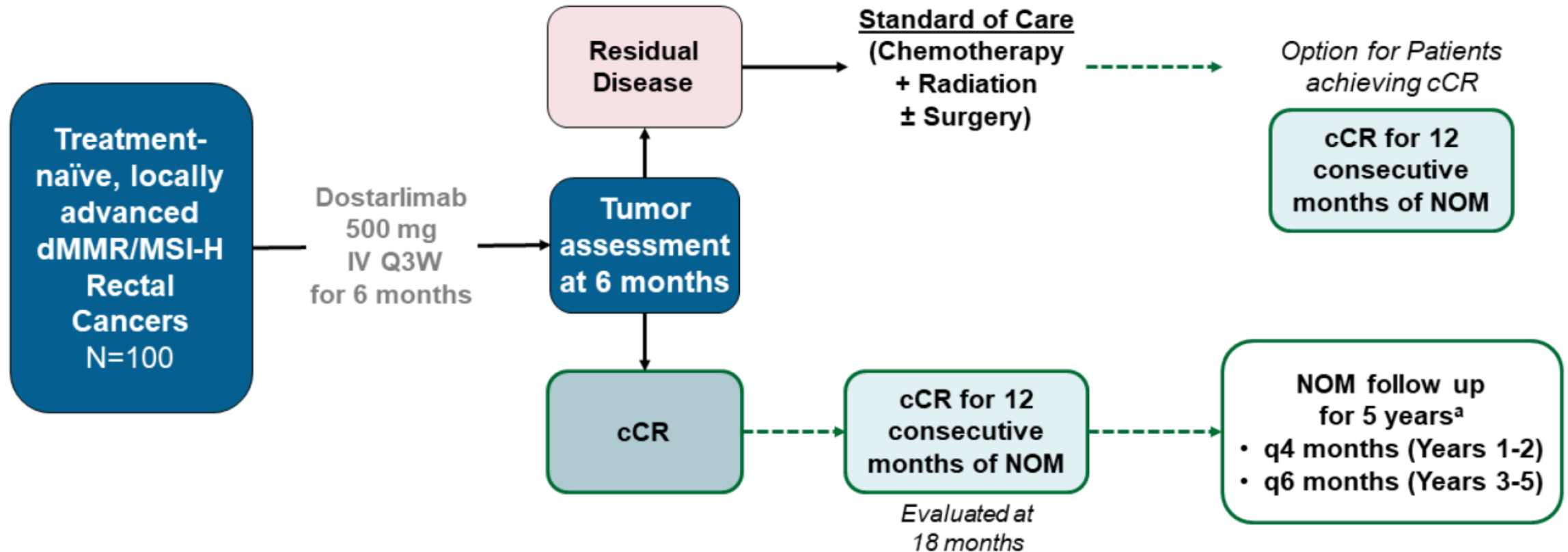
Should we be using nivo/ipi?

Does pCR mean cure?

What is the impact of immunotherapy on pMMR/MSS rectal cancer?



AZUR-1: Dostarlimab in dMMR/MSI-H Locally-Advanced Rectal Cancer

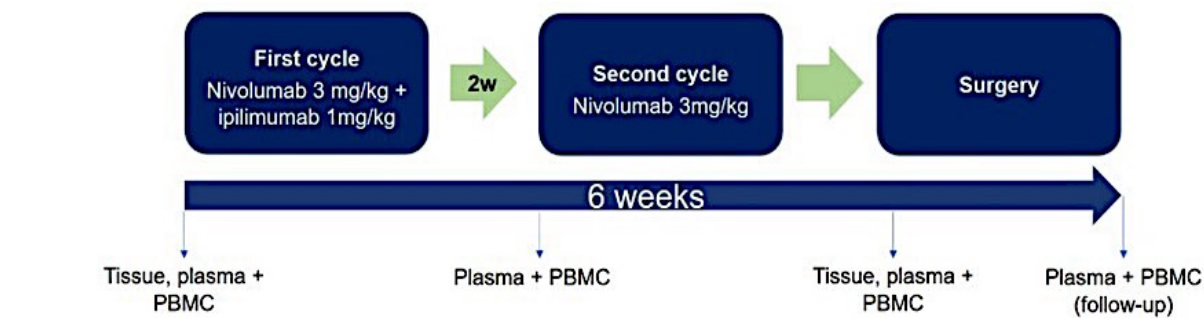


NCT05723562

Prevent and conquer cancer. **Together.**

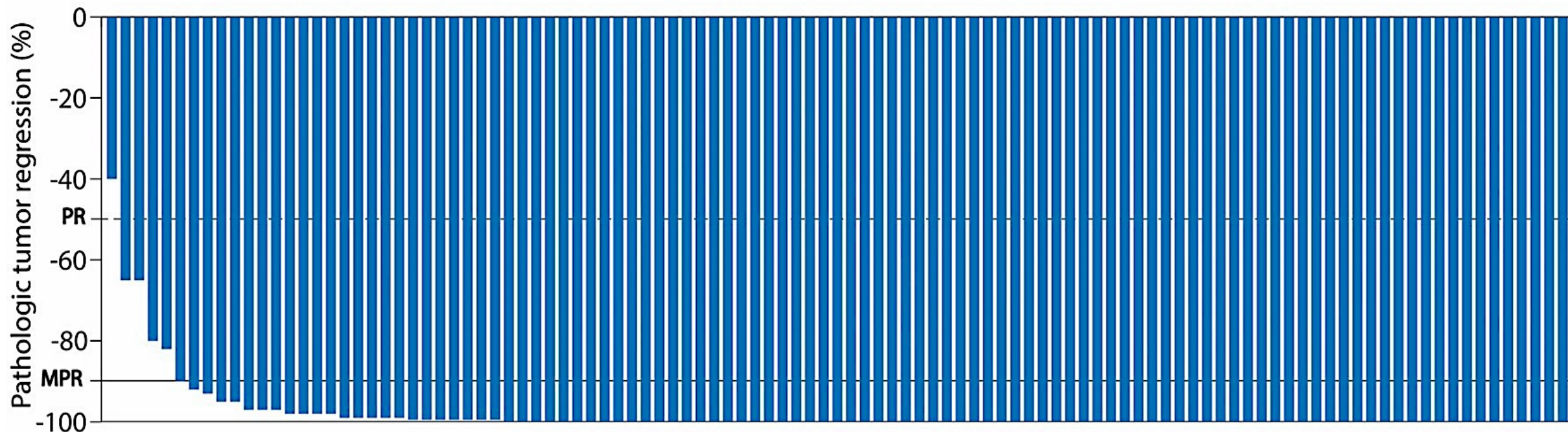
Immune checkpoint inhibitors for patients with non-metastatic colon cancer

NICHE-2 Study: Nivo/Ipi dMMR colon cancer

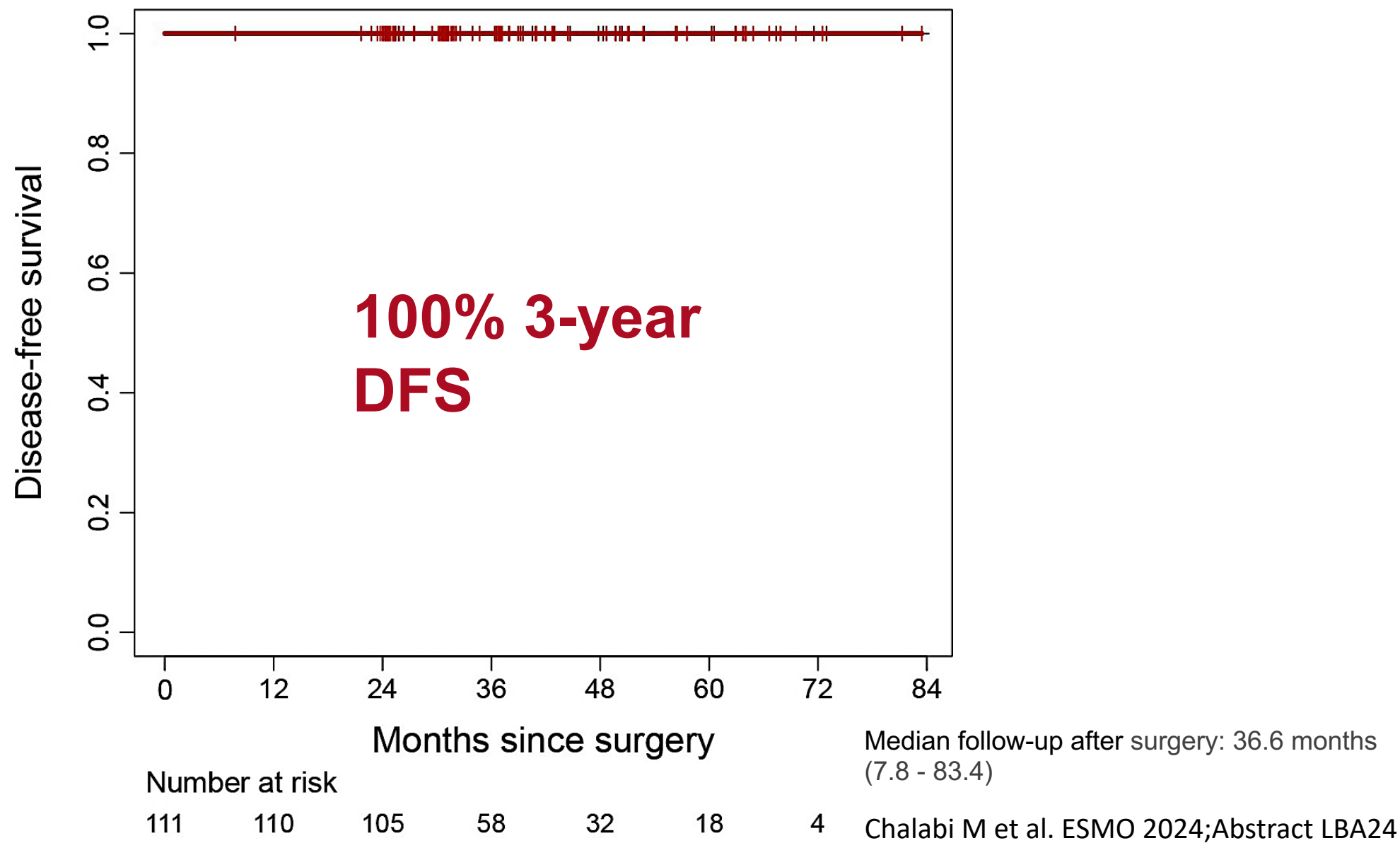


In locally advanced MMR-deficient colon cancers

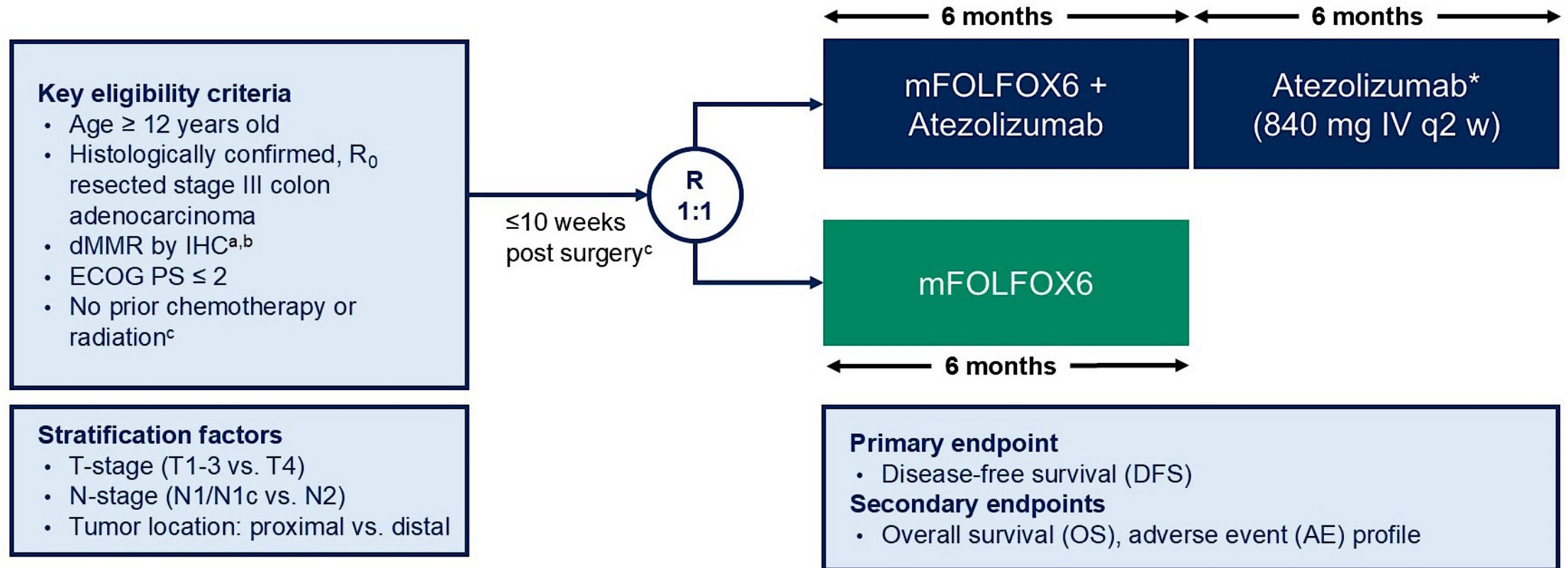
■ **95% MPR; 67% pCR**



Results – 3-year disease-free survival 100%



ATOMIC: addition of atezolizumab to standard chemotherapy for dMMR/MSI-H colon cancer



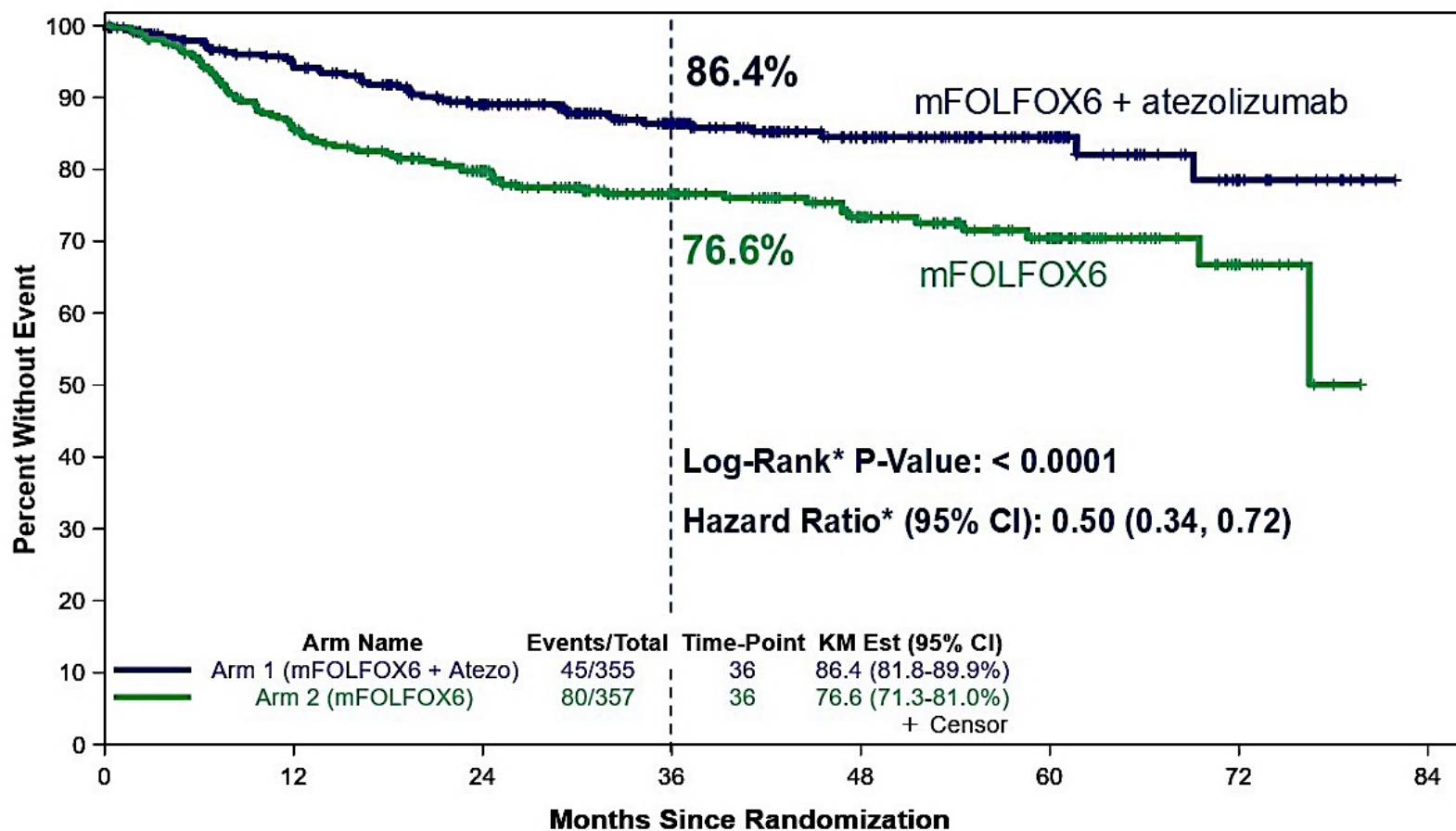
^a dMMR by immunohistochemistry (IHC) locally or at site-selected reference laboratory. Retrospective central confirmation of dMMR also performed.

^b Lynch syndrome included.

^c One cycle of mFOLFOX6 prior to randomization permitted.

*Atezolizumab (anti-PD-L1)

Primary Endpoint: DFS



Arm 1 (mFOLFOX6 + Atezo)
Arm 2 (mFOLFOX6)

355
357

291
262

242
217

171
150

Patients-at-Risk

106
99

50
58

15
11

0
0

Confirmed dMMR by central reference laboratory: Log-Rank P-Value: 0.0007, Hazard Ratio (95% CI): 0.53 (0.36, 0.79)

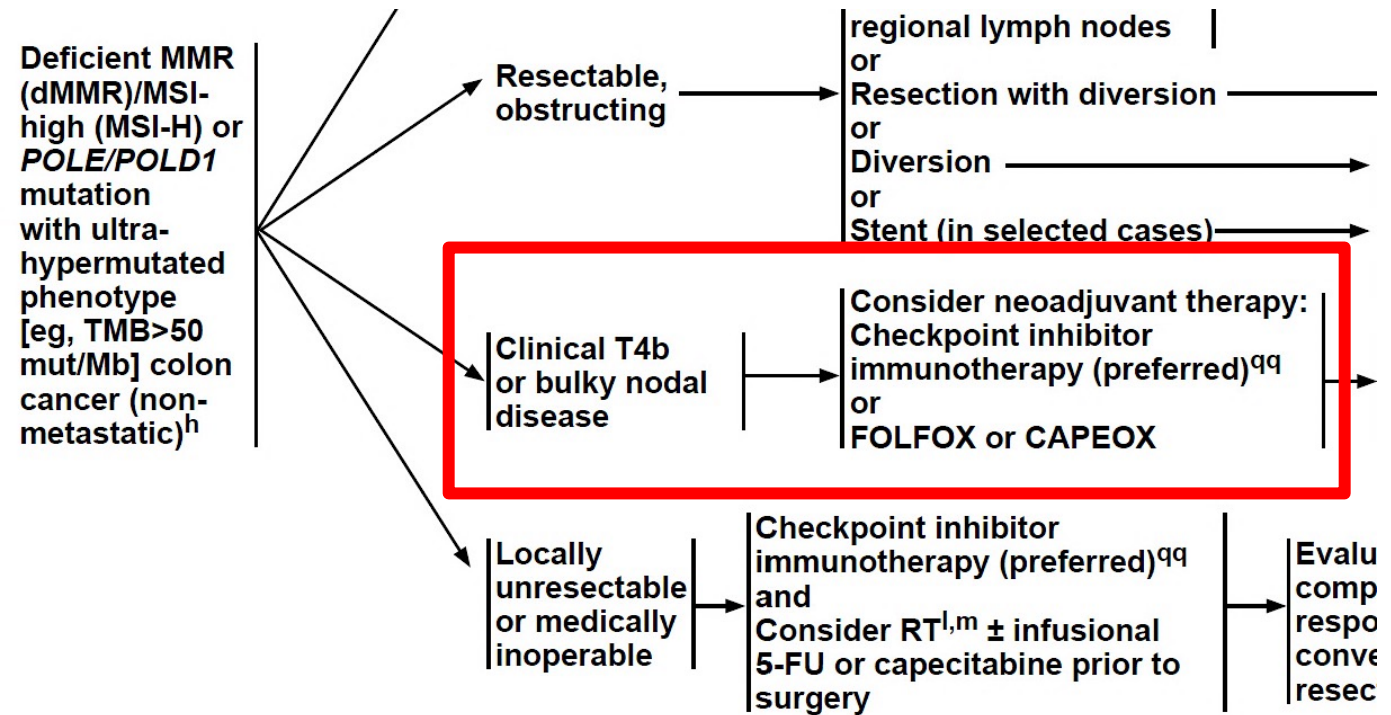
*Stratified by randomization factors

Median follow-up = 37.2 mos

Take Home Points:

Neoadjuvant immune checkpoint inhibition should be considered for high-risk disease (T4b/bulky nodal disease) colon cancer

FOLFOX/atezolizumab is the new standard in patients not receiving neoadjuvant therapy!



QUESTIONS:

- Should we consider non-operative management for MSI-H/dMMR colon cancer?
- Are serial colonoscopies better or worse than a hemicolectomy?
- What is the best duration of immunotherapy prior to resection?
- Is there a role for immunotherapy in pMMR/MSS colon cancer?



AZUR-2: An Ongoing Phase III Study of Perioperative Dostarlimab for Untreated T4N0 or Stage III dMMR/MSI-H Resectable Colon Cancer

Trial identifier: NCT05855200

Key inclusion criteria

- Resectable T4N0 or Stage III colon adenocarcinoma
- dMMR or MSI-H tumor

Key exclusion criteria

- Prior chemotherapy, IO, biological or targeted therapy, RT, or surgery for colon cancer
- History of ILD or pneumonitis
- Allogeneic stem cell transplant
- Any major surgery or injury within 28 days of enrollment

**N = 711
(1:1)**

Dostarlimab

Surgery

Dostarlimab

Placebo

Surgery

CAPEOX/FOLFOX

Outcomes

- Primary endpoint: EFS up to 5 years
- Key secondary endpoints: OS up to 5 years, pCR, safety

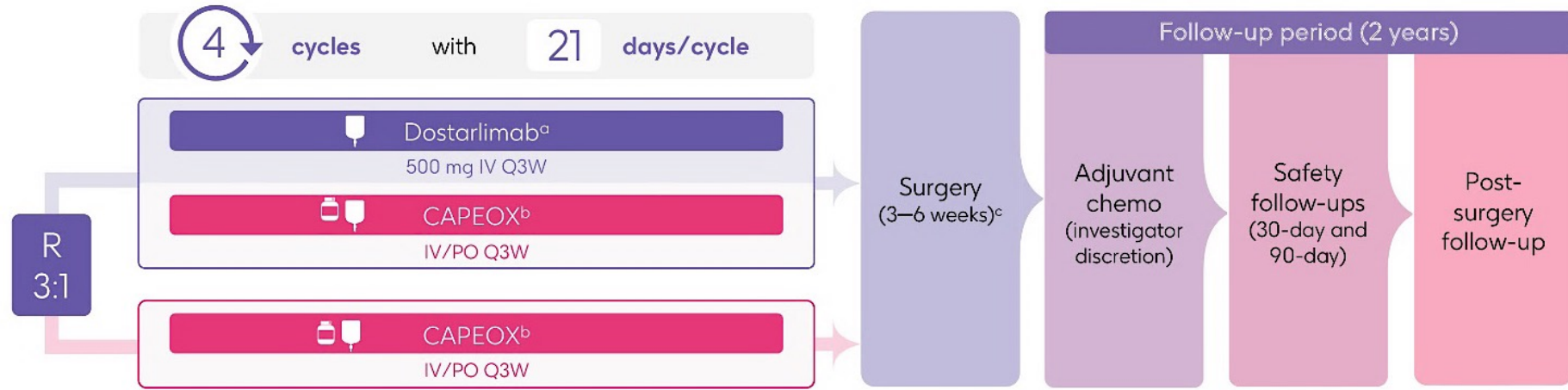
dMMR = defective mismatch repair; MSI-H = microsatellite instability high; IO = immunotherapy; RT = radiation therapy; ILD = interstitial lung disease; CAPEOX = capecitabine/oxaliplatin; FOLFOX = fluorouracil/leucovorin/oxaliplatin; EFS = event-free survival; OS = overall survival; pCR = pathological complete response

AZUR-4: randomized study of neoadjuvant dostarlimab plus CAPEOX vs CAPEOX in untreated T4N0 or stage III in pMMR/MSS colon cancer

Trial design



Stratified by T4N0 or stage III



^aDostarlimab solution for infusion will be administered as a dose of 500 mg Q3W beginning on day 1 of each 21-day cycle for 4 cycles. ^bOxaliplatin will be administered as an infusion with dose of 130 mg/m² Q3W on day 1 of each 21-day cycle for 4 cycles. Capecitabine will be administered as an oral agent for 14 days of a 21-day cycle with a dose of 1000 mg/m² BID for 4 cycles. ^cAt least 3 and no more than 6 (+2) weeks after last dose of neoadjuvant chemotherapy.

Primary Endpoints:

- Major pathological response ($\leq 10\%$ residual viable tumor)
- Safety

Secondary Endpoints:

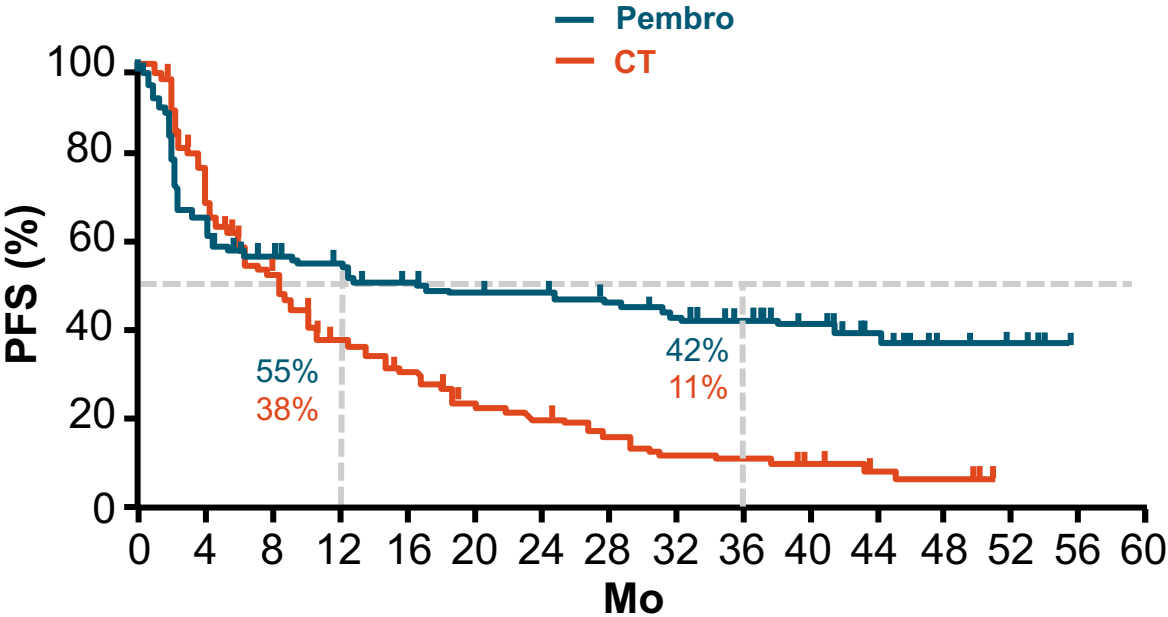
- Primary tumor resection exclusion
- Pathological response

Immunotherapy in the first-line treatment of mCRC

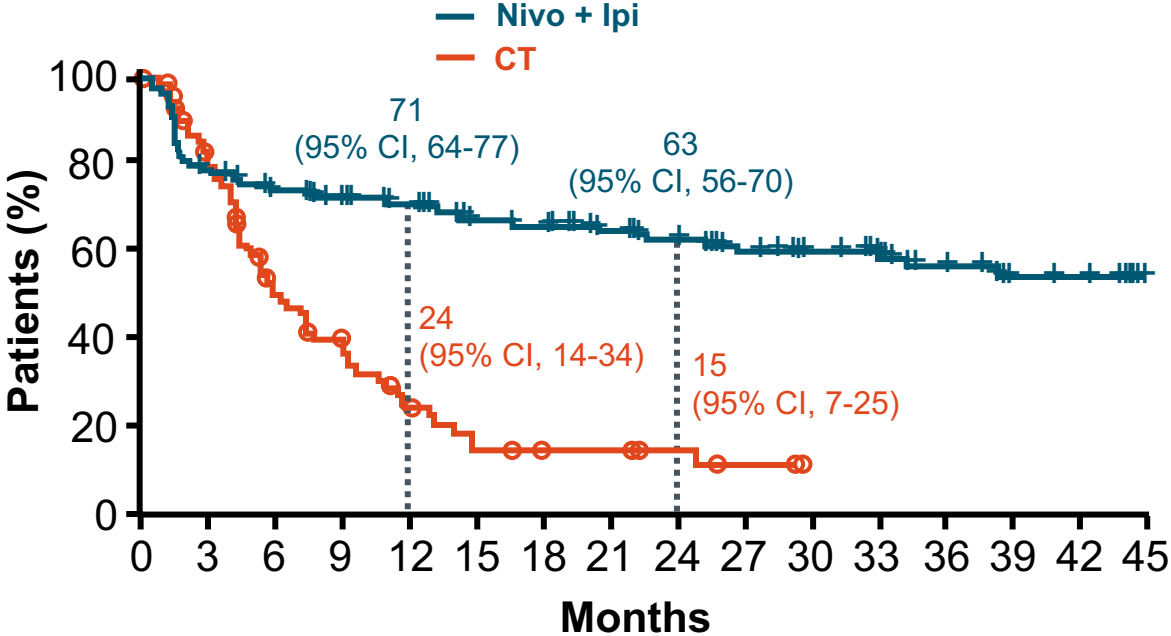
MSI-H/dMMR

Phase III RCTs of Immunotherapy vs Chemotherapy as First-Line Therapy for dMMR/MSI-H mCRC

KEYNOTE-177

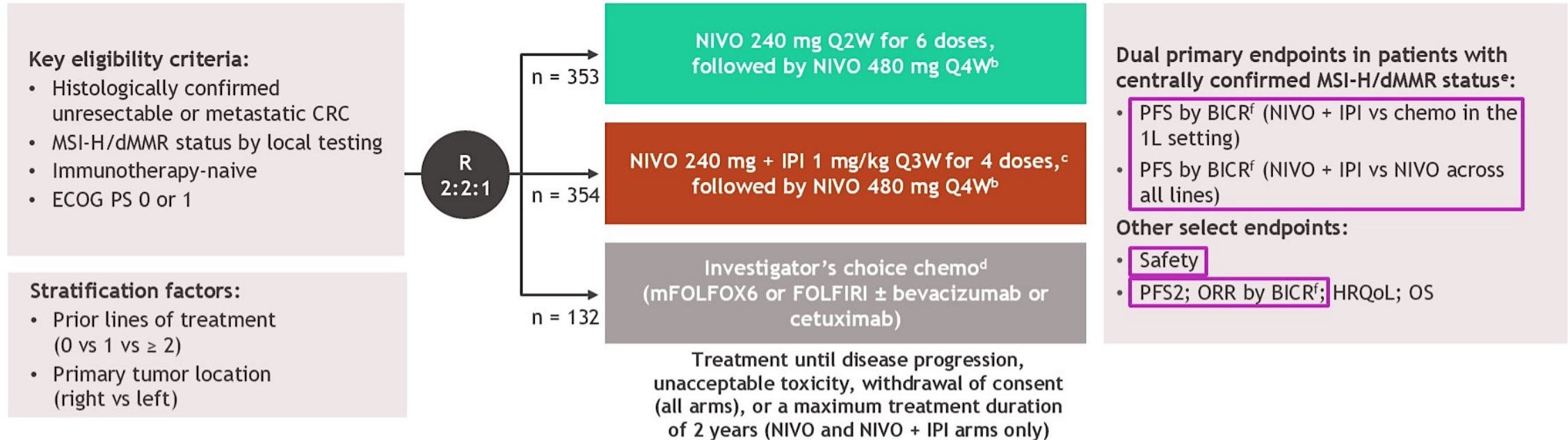


Checkmate 8HW



CheckMate 8HW study design

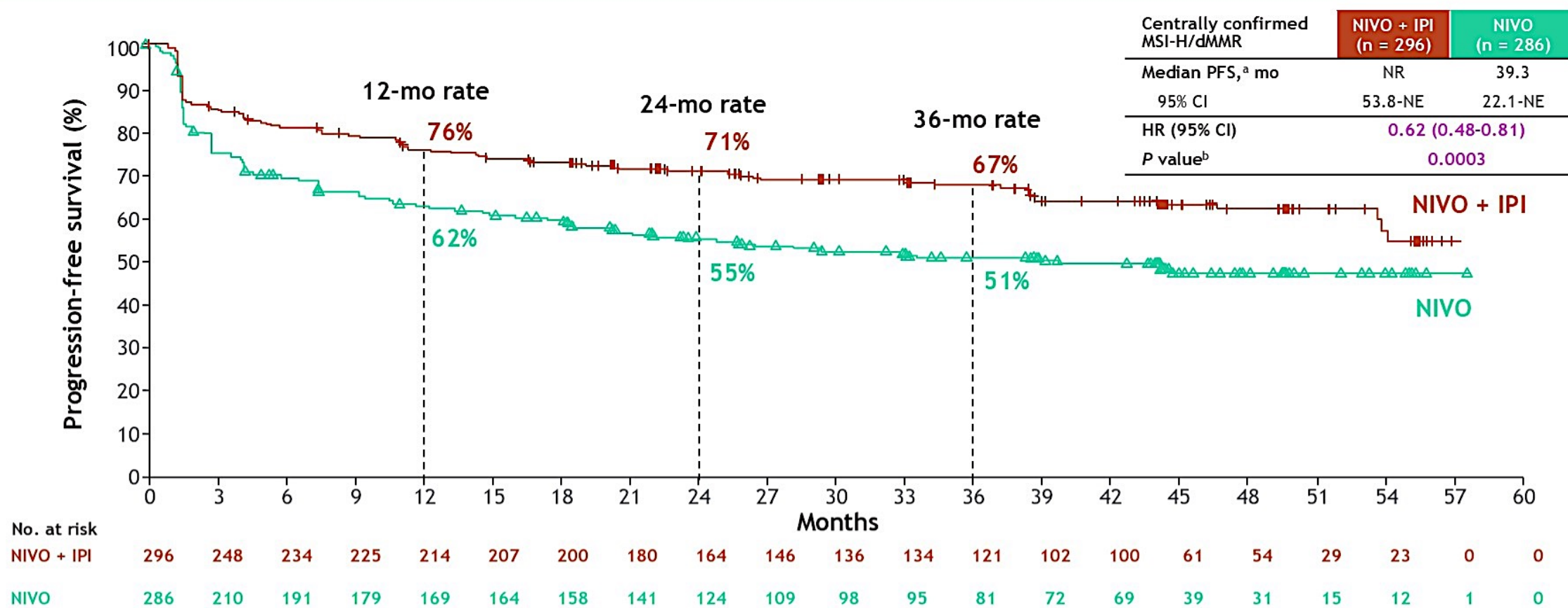
- CheckMate 8HW is a randomized, multicenter, open-label phase 3 study^a



- 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 immunohistochemistry 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.

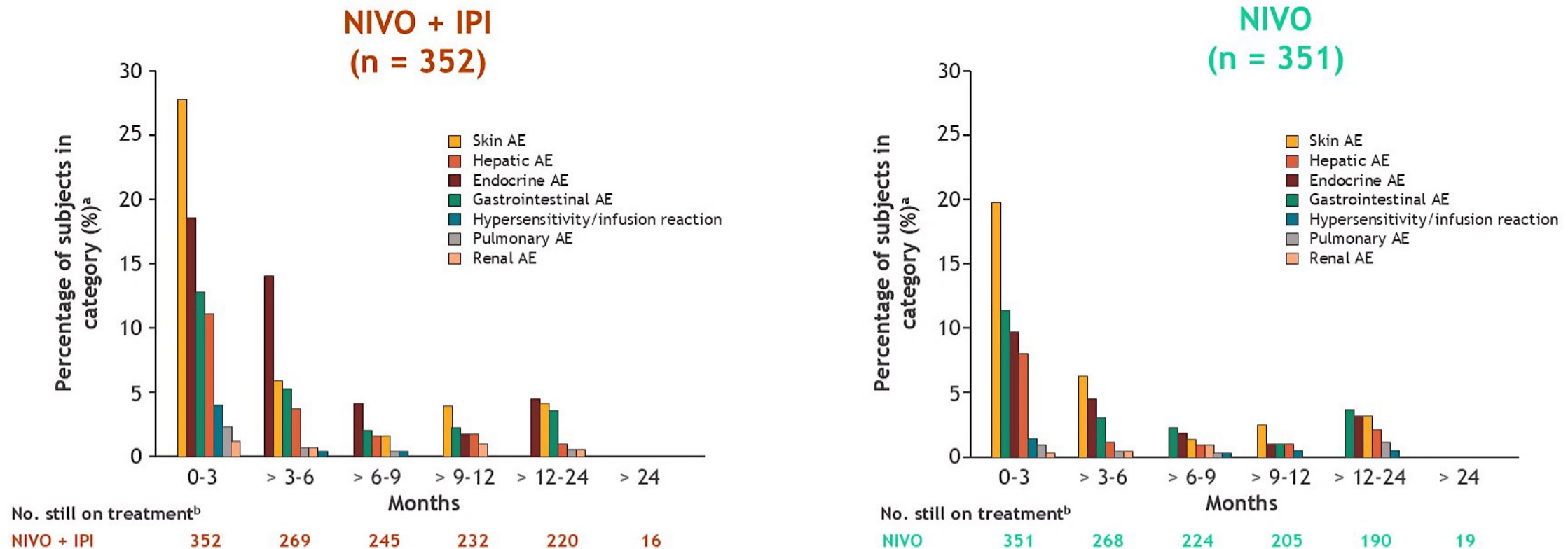
Progression-free survival: NIVO + IPI vs NIVO (all lines)



- 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 (mPFS: 54.1 vs 18.4 months; HR, 0.64 [95% CI, 0.52-0.79])

^aPer BICR. ^bBoundary for statistical significance, $P < 0.0095$.

Emergence of TRAEs with potential immunologic etiology over time



- The majority of any-grade TRAEs with potential immunologic etiology^c in the NIVO + IPI and NIVO groups emerged within the first 6 months of treatment across organ categories
 - Frequencies were generally comparable between the two treatment groups, except skin and endocrine TRAEs were more frequent with NIVO + IPI

^aIncludes events reported between first dose and 30 days after last dose of study treatment. Patients with ≥ 1 any grade event in a given category were counted only once in the time interval corresponding to the first event. Patients with multiple events from different categories within the same time interval were counted once in each category. Proportion of patients in each category is based on the patients still on treatment for the respective time interval. ^bNumber of patients still receiving treatment is identified at the beginning of each respective time interval. ^cTRAEs with potential immunologic etiology that require frequent monitoring/intervention.

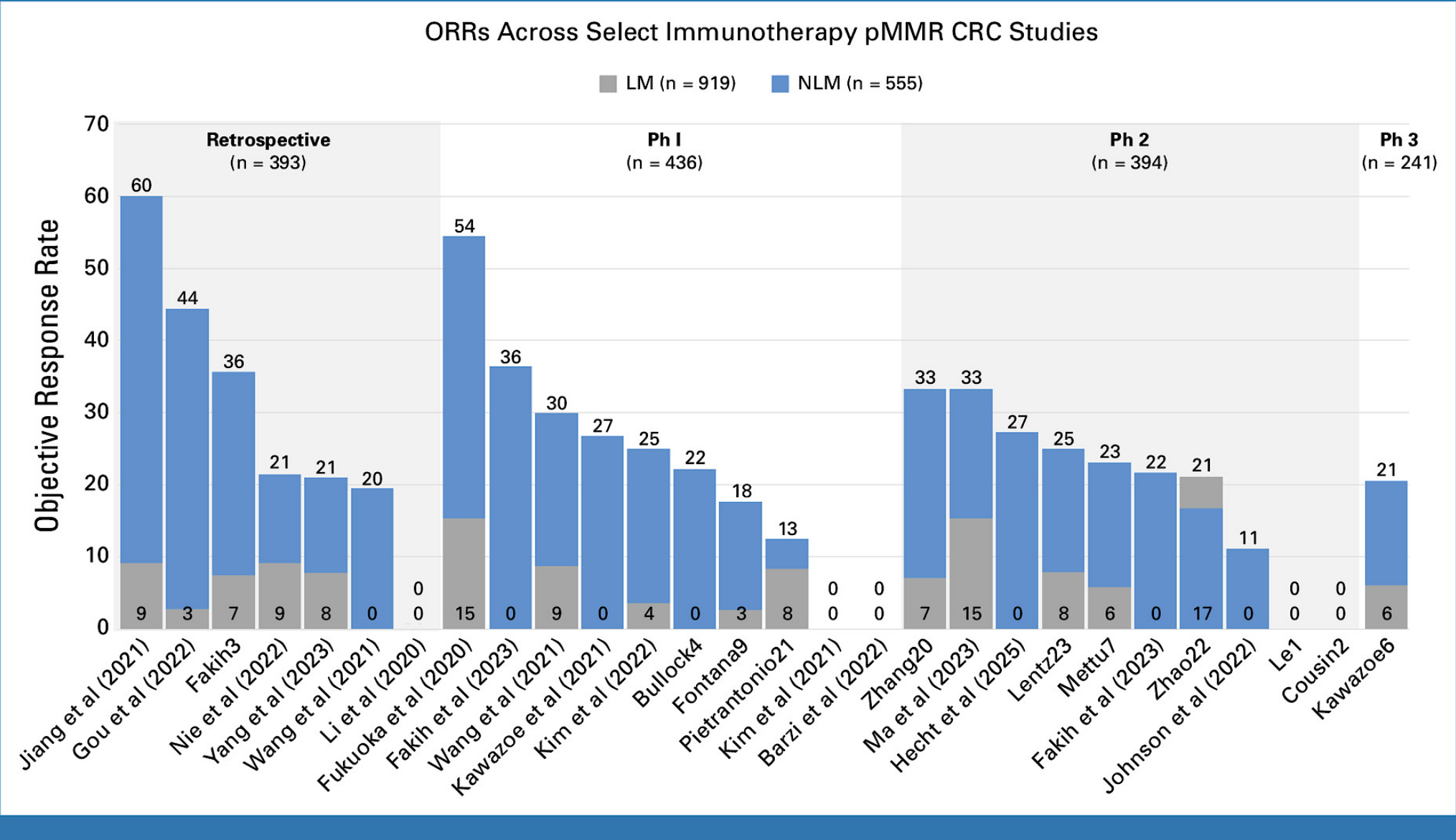
TAKE HOME POINT:

Patients with mCRC and MSI-H and/or dMMR should receive immunotherapy in the frontline setting

In eligible patients, strongly consider dual immunotherapy with nivolumab and ipilimumab

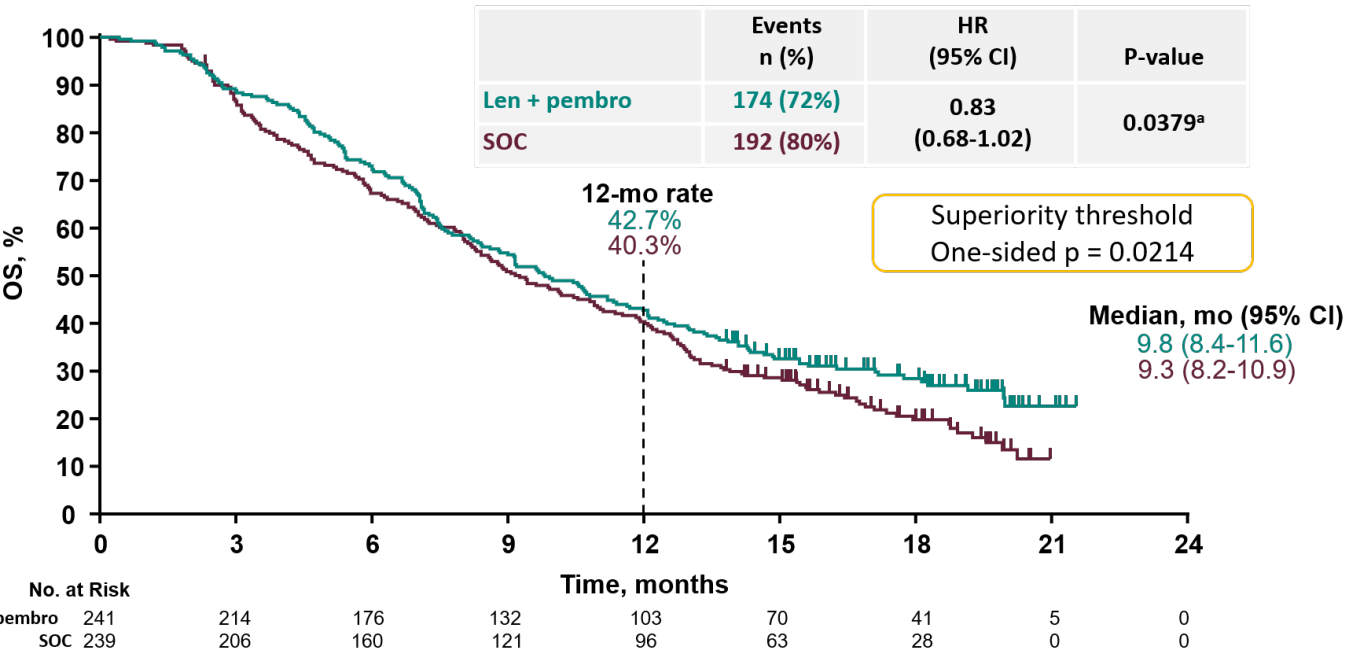
Is there a role for immunotherapy in pMMR/MSS mCRC?

Response Rates in non-liver vs liver mCRC



LEAP-017: Lenvatinib/Pembro

	Lenvatinib + Pembrolizumab	SOC
Characteristics, n (%)	N = 241	N = 239
Presence of liver metastases		
Yes	168 (69.7)	168 (70.3)
No	73 (30.3)	71 (29.7)



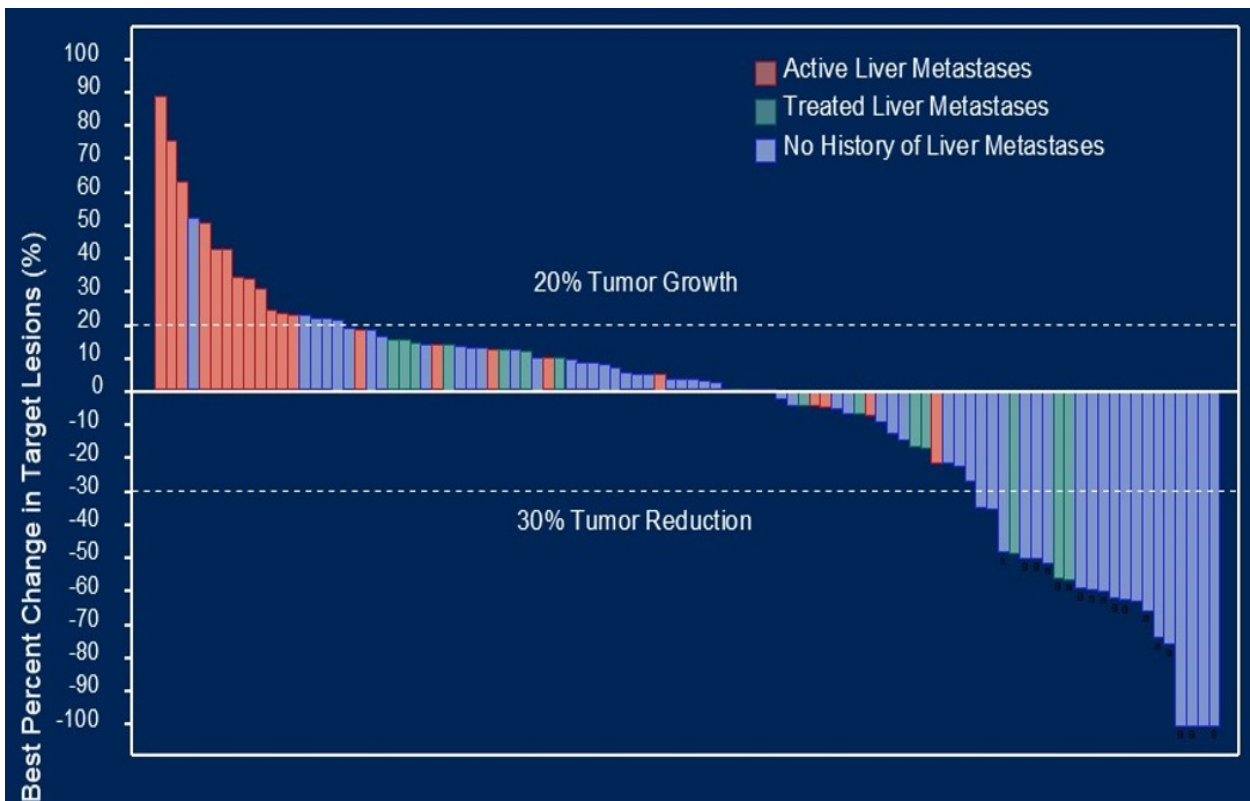
Primary Endpoint OS: NEGATIVE

		OS	
		Events/Patients, N	HR or ORR (95%CI)
Presence of Liver metastasis			
Yes	279/336		0.91 (0.72-1.15)
No	87/144		0.65 (0.42-0.99)
PFS			
Presence of Liver metastasis			
Yes	272/336		0.74 (0.58-0.95)
No	100/144		0.63 (0.42-0.94)
RR			
Presence of Liver metastasis			
Yes	12/336		4.8 (0.9-19.6)
No	17/144		17.7 (8.0-28.6)

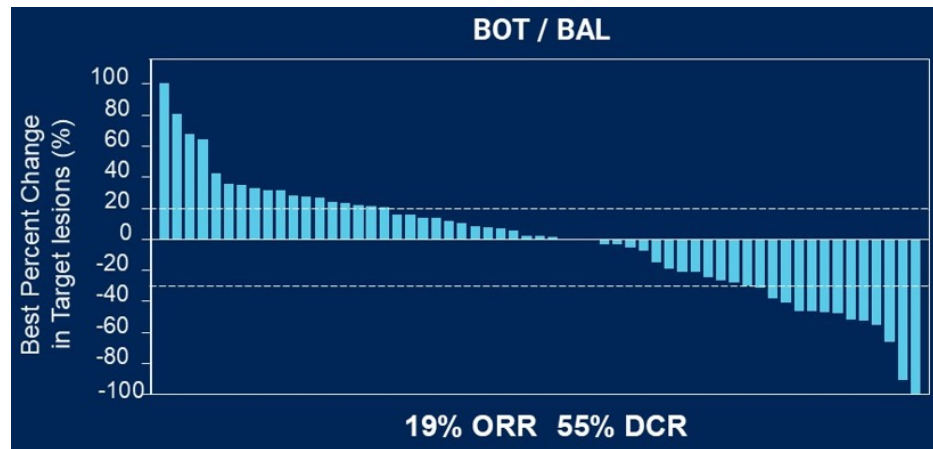
Botensilimab + Balstilimab in Non-liver Met pMMR mCRC

Fc-enhanced CTLA-4 Inhibitor (BOT) and PD-1 Inhibitor (BAL)

Phase 1 Trial

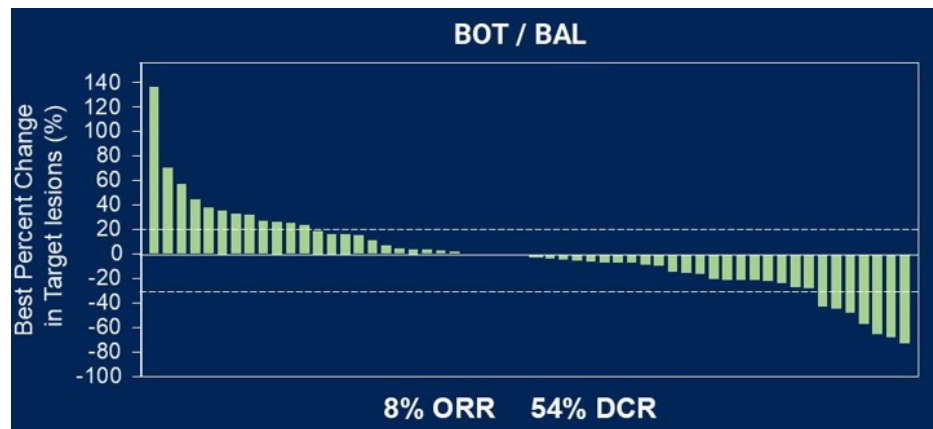


Randomized Phase 2 Trial



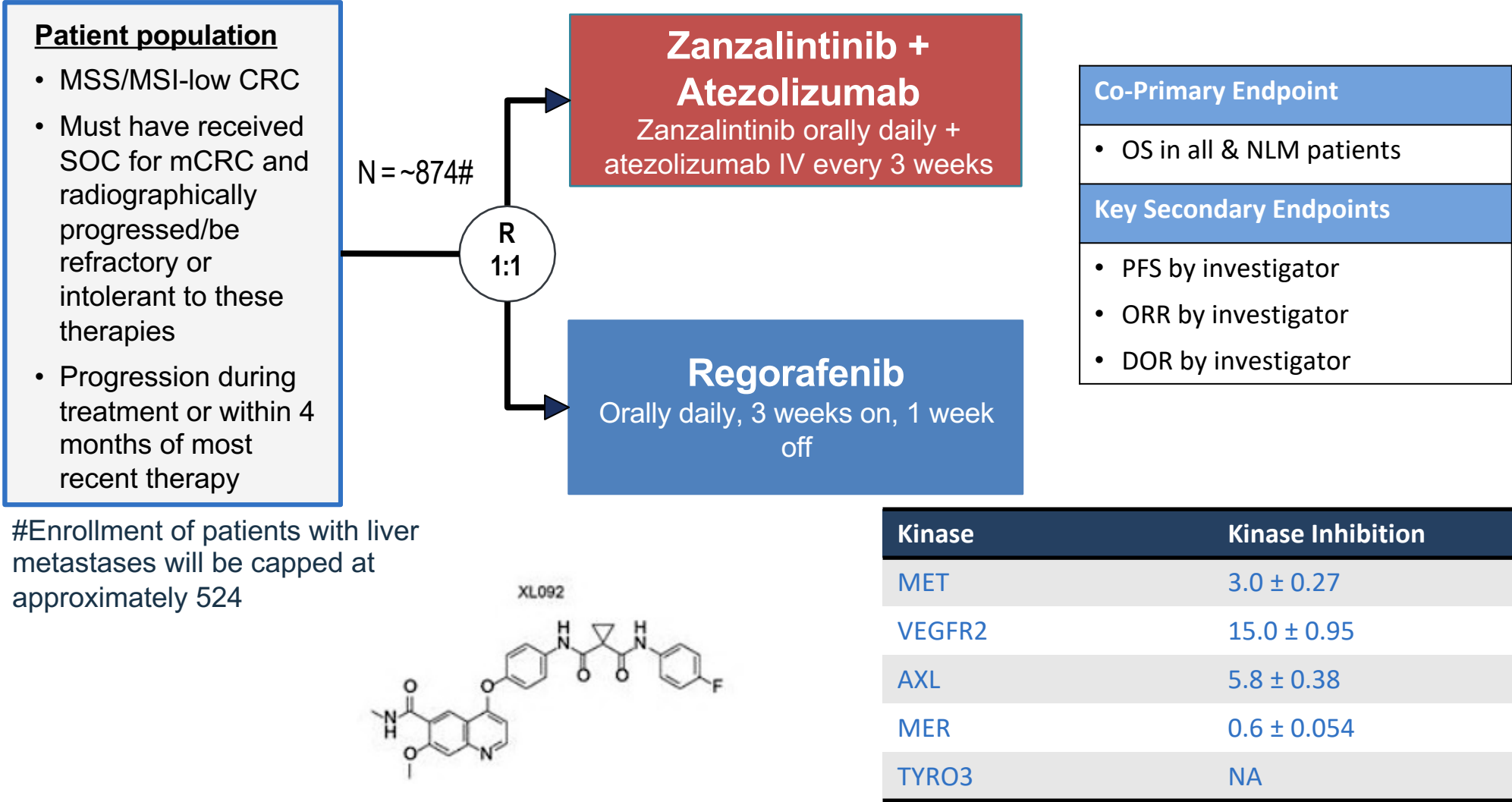
BOT
75mg

Non-liver met mCRC



BOT
150mg

STELLAR-303: Phase 3 Randomized, Open-Label Study of Zanzalintinib (XL092) With Atezolizumab vs Regorafenib in mCRC



STELLAR-303: Phase 3 Randomized, Open-Label Study of Zanzalintinib (XL092) With Atezolizumab vs Regorafenib in mCRC

Zanzalintinib in Combination with an Immune Checkpoint Inhibitor Improved Overall Survival in STELLAR-303 Phase 3 Pivotal Trial in Patients with Metastatic Colorectal Cancer

June 22, 2025

 PDF Version

– Zanzalintinib in combination with atezolizumab demonstrated a statistically significant reduction in risk of death versus regorafenib in intent-to-treat population –



TYRO3

NA

TAKE HOME POINT:

STELLAR-303: Phase 3 Randomized, Open-Label Study of Zanzalintinib (XL092) With Atezolizumab vs Regorafenib in mCRC

Stay tuned!

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

Nivolumab plus Ipilimumab vs Nivolumab Monotherapy for Microsatellite Instability-High/Mismatch Repair-Deficient (MSI-H/dMMR) Metastatic Colorectal Cancer (mCRC): New Results from CheckMate 8HW

Lonardi S et al.

ESMO 2025;Abstract LBA29.

PROFFERED PAPER | MONDAY, OCTOBER 20 | 8:30 CEST

Zanzalintinib plus Atezolizumab (zanza + atezo) vs Regorafenib (rego) in Patients (pts) with Previously Treated Metastatic Colorectal Cancer (mCRC): Primary Overall Survival (OS) Analysis from the Randomized, Open-Label, Phase 3 STELLAR-303 Study

Saeed A et al.

ESMO 2025;Abstract LBA30.

PROFFERED PAPER | MONDAY, OCTOBER 20 | 9:25 CEST

Questions from General Medical Oncologists

- **A 42-year-old patient with locally advanced MSI-H rectal cancer is responding dramatically to neoadjuvant dostarlimab. If they achieve a complete clinical response, should surgery be deferred entirely?**
- **Should we use dostarlimab as neoadjuvant therapy for MSI-H rectal cancer, or is pembrolizumab OK?**

Questions from General Medical Oncologists

- **When, if at all, should we be recommending neoadjuvant IO for MSI-H colon cancer? If we are going to use this approach, should it be single-agent or dual checkpoint inhibition?**
- **Should we use adjuvant IO in Stage II MSI-high colon cancer?**
- **Can we get away without chemotherapy in the adjuvant setting for MSI-H colon cancer?**
- **Can ctDNA monitoring post-surgery help determine which patients benefit from adding atezolizumab?**

Questions from General Medical Oncologists

- **Are you typically using dual checkpoint inhibition or anti-PD-1/PD-L1 monotherapy as first-line treatment for metastatic MSI-H CRC?**

Questions from General Medical Oncologists

- **Should we stop pembrolizumab after 2 years in MSI-H mCRC?**
- **What do we know about POLE mutations in mCRC?**
- **What is the current and future role of IO (+ TKI?) in MSS metastatic disease?
Do you think the upcoming ESMO presentation of zanzalintinib in combination with atezolizumab will change practice?**

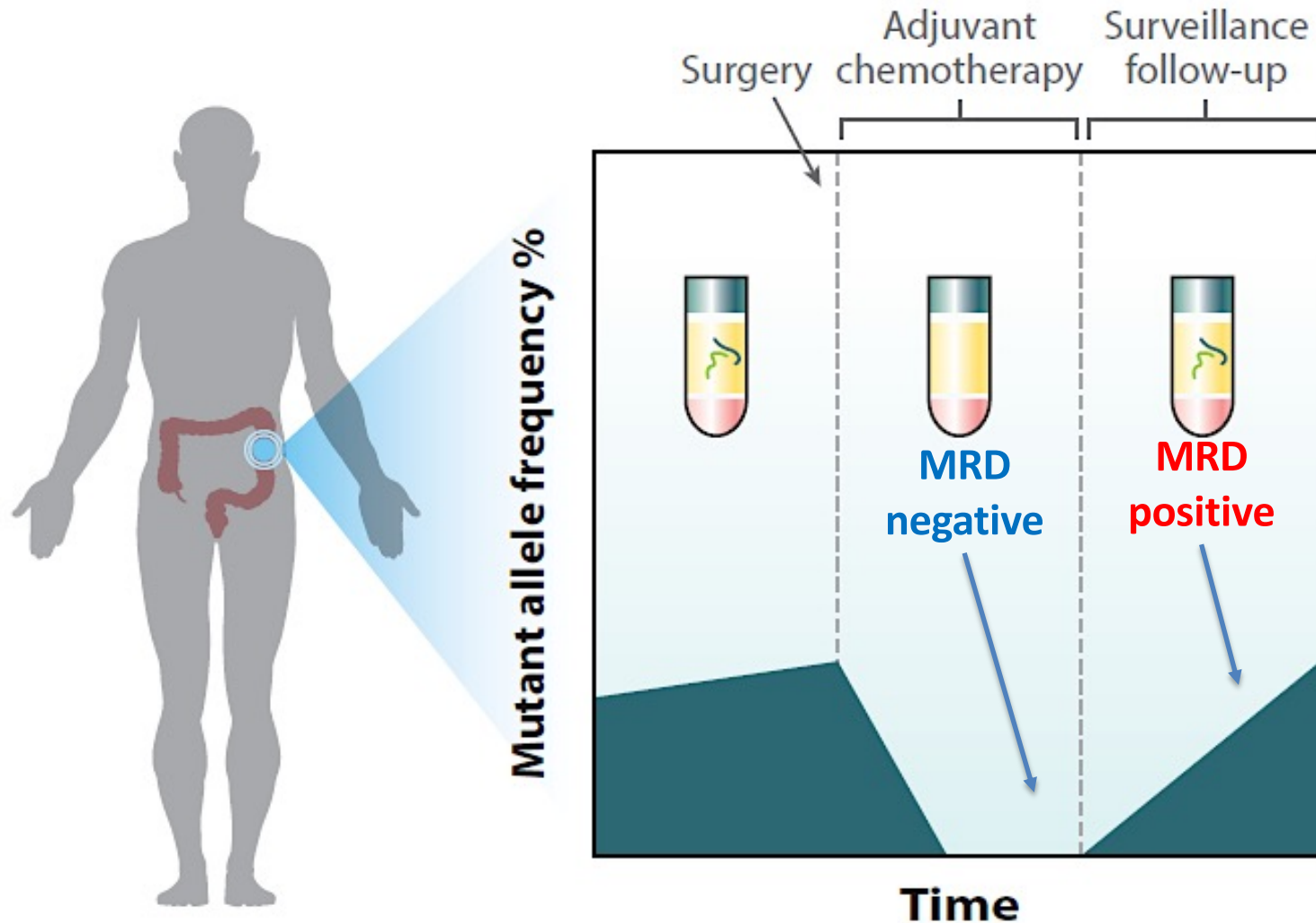
Questions from General Medical Oncologists

- **Can patients with MSI-H mCRC who receive pembrolizumab be treated with ipilimumab/nivolumab in the second line?**
- **How would you approach a patient with mCRC that is MSI-H and BRAF-positive? Would you use IO or targeted therapy with chemotherapy first?**

Other Biomarker-Based Strategies for Patients with Colorectal Cancer

John Strickler, MD
Professor of Medicine
Duke University
October 11, 2025

Defining Minimal Residual Disease (MRD)



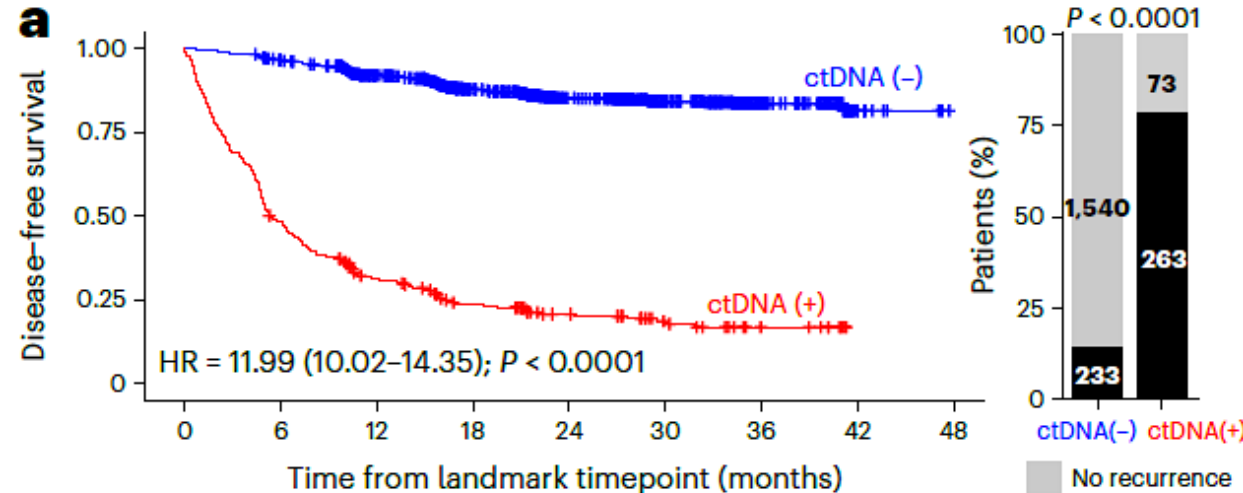
ctDNA detection techniques

- Tumor informed
- Plasma only

MRD status after surgery is strongly prognostic

GALAXY Study: Tumor-informed MRD testing after resection in patients with stage II-IV CRC (n=2,109)

Disease-free survival

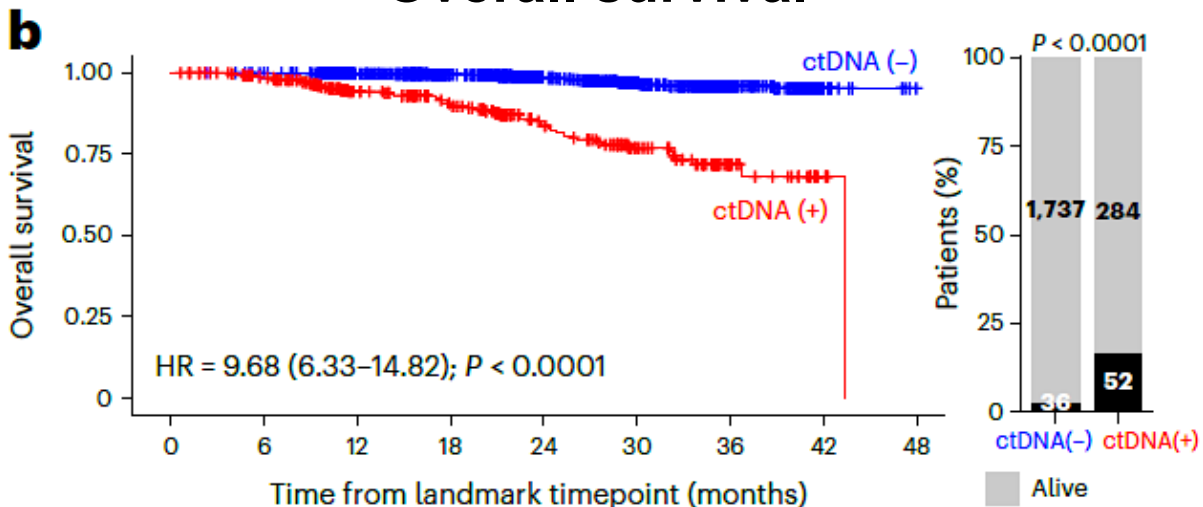


Number at risk

ctDNA (-)	1,773	1,701	1,379	1,057	625	353	131	11	0
ctDNA (+)	336	161	95	60	36	21	10	0	0

ctDNA status	Negative	Positive
Events %	13.14 (233/1773)	78.27 (263/336)
24M-DFS % (95% CI)	85.10 (83.20-86.9)	20.57 (16.14-25.37)
30M-DFS % (95% CI)	84.10 (82.0-86.0)	18.50 (14.0-23.40)
36M-DFS % (95% CI)	83.50 (81.20-85.60)	16.70 (12.10-21.90)
mDFS (mo)	NR	5.34 (4.83-6.70)

Overall survival



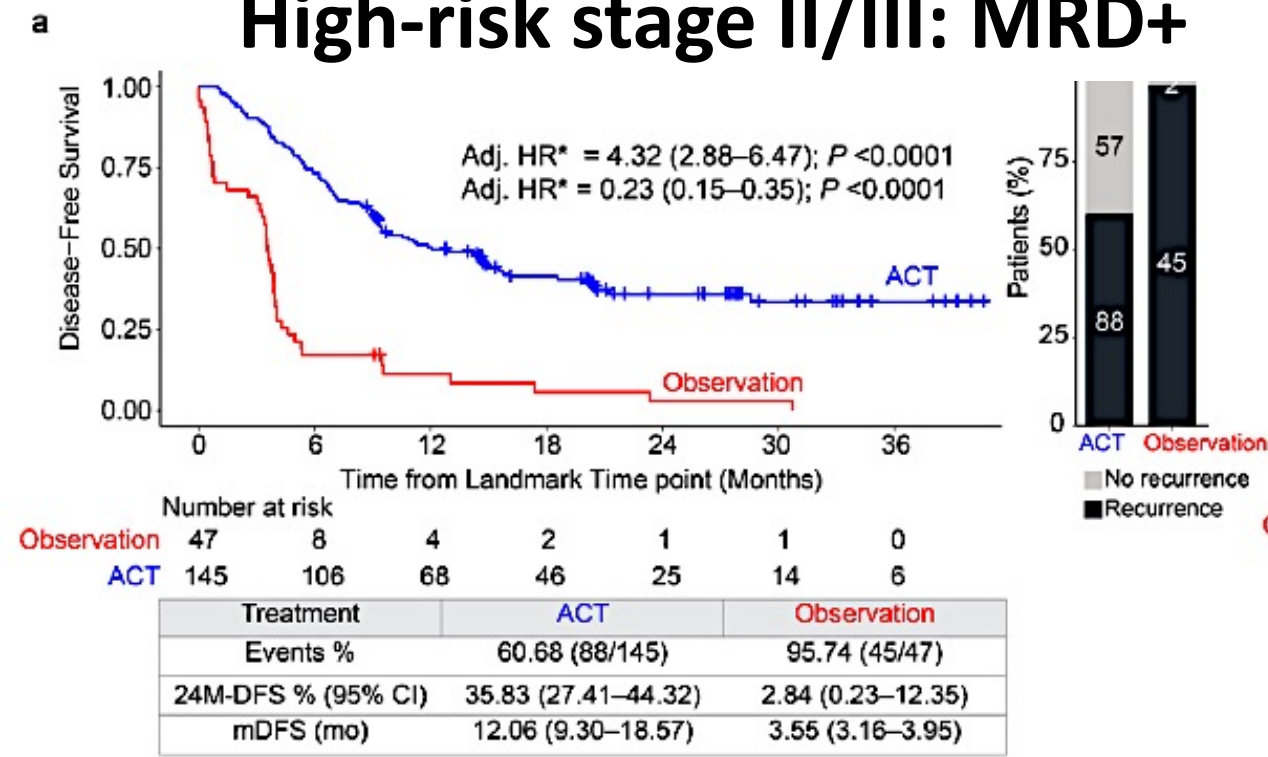
Number at risk

ctDNA (-)	1,773	1,765	1,511	1,252	825	497	185	19	1
ctDNA (+)	336	309	228	189	119	73	24	4	0

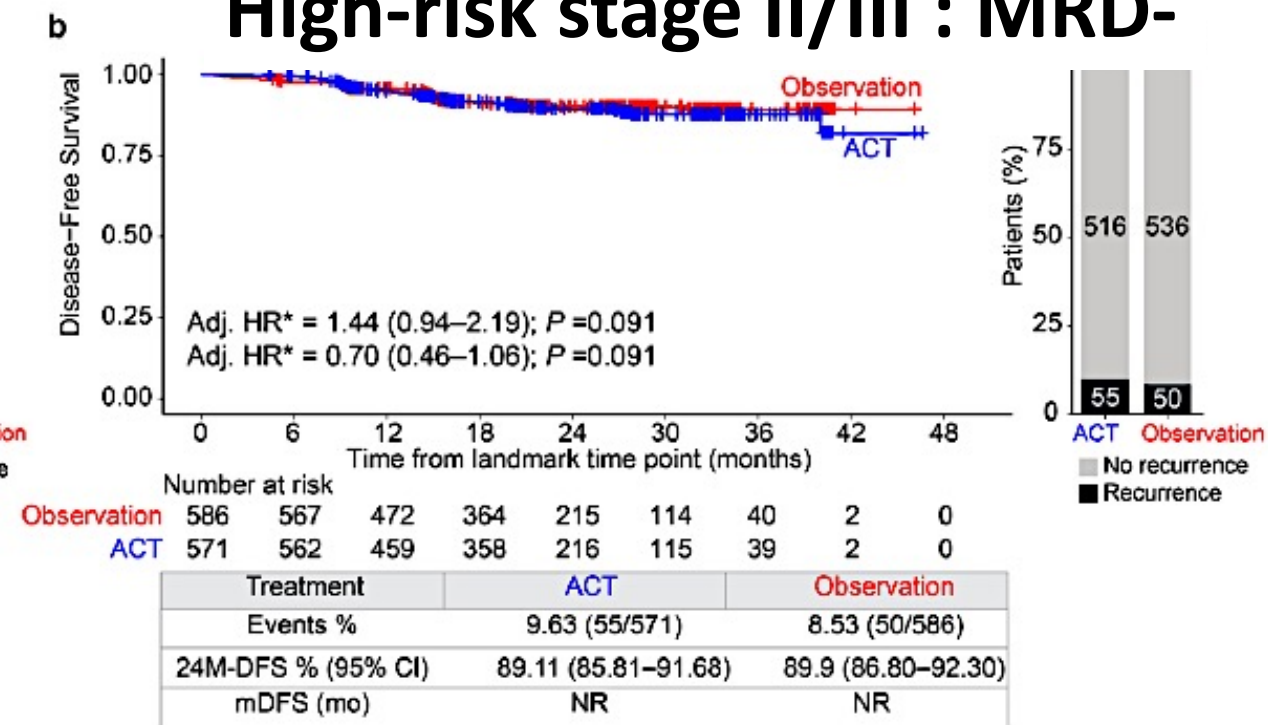
ctDNA status	Negative	Positive
Events %	2.03 (36/1773)	15.48 (52/336)
24M-OS % (95% CI)	98.50 (97.70-99.10)	83.65 (77.84-88.06)
30M-OS % (95% CI)	96.80 (95.40-97.80)	76.90 (69.80-82.50)
36M-OS % (95% CI)	96.0 (94.30-97.20)	71.80 (63.40-78.60)
mOS (mo)	NR	43.40 (NR-NR)

GALAXY: Adjuvant chemotherapy for high-risk stage II/III disease

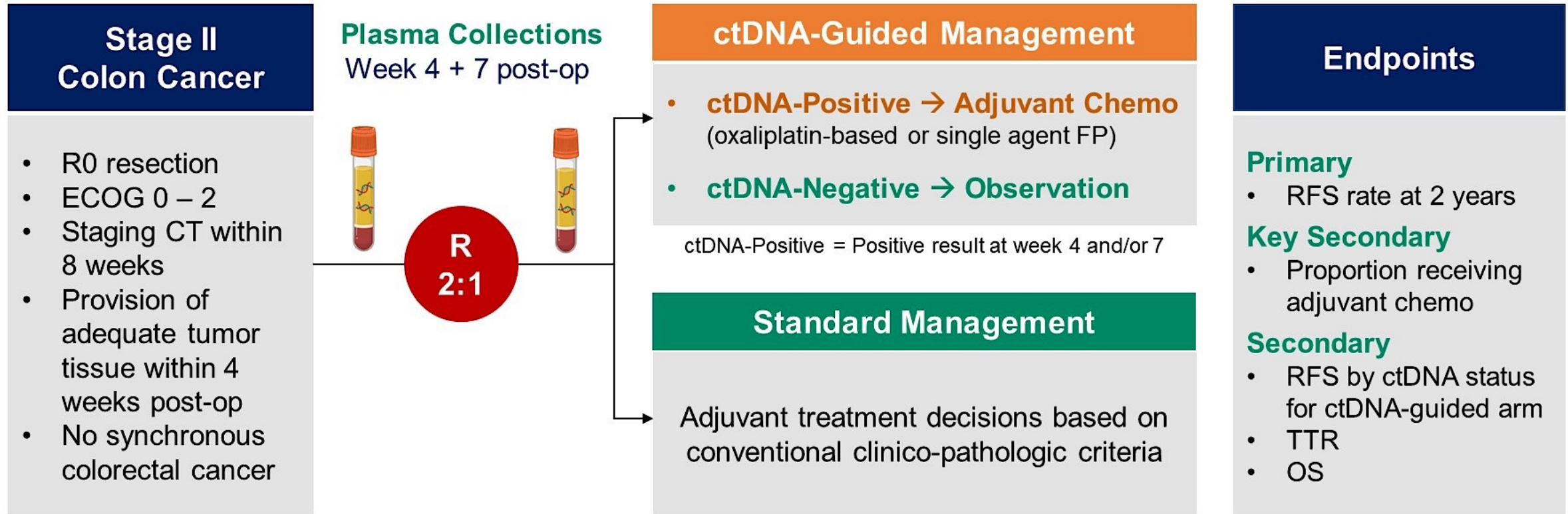
High-risk stage II/III: MRD+



High-risk stage II/III : MRD-



DYNAMIC Study Design



Stratification Factors

- T stage (T3 vs T4)
- Type of participating center (metropolitan vs regional)

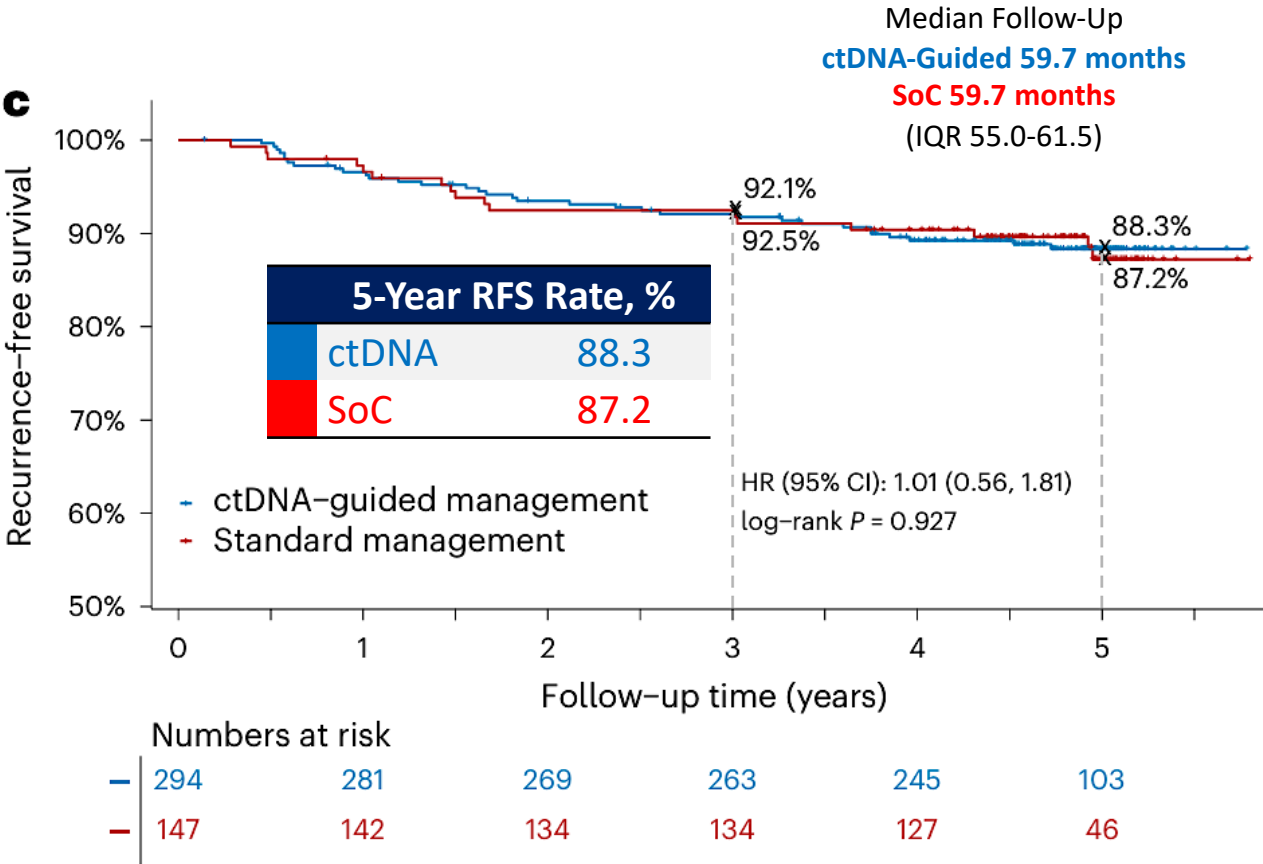
Surveillance:

- CEA → 3-monthly for 24M, then 6-monthly for 36M
- CT C/A/P → 6-monthly for 24M, then at 36M

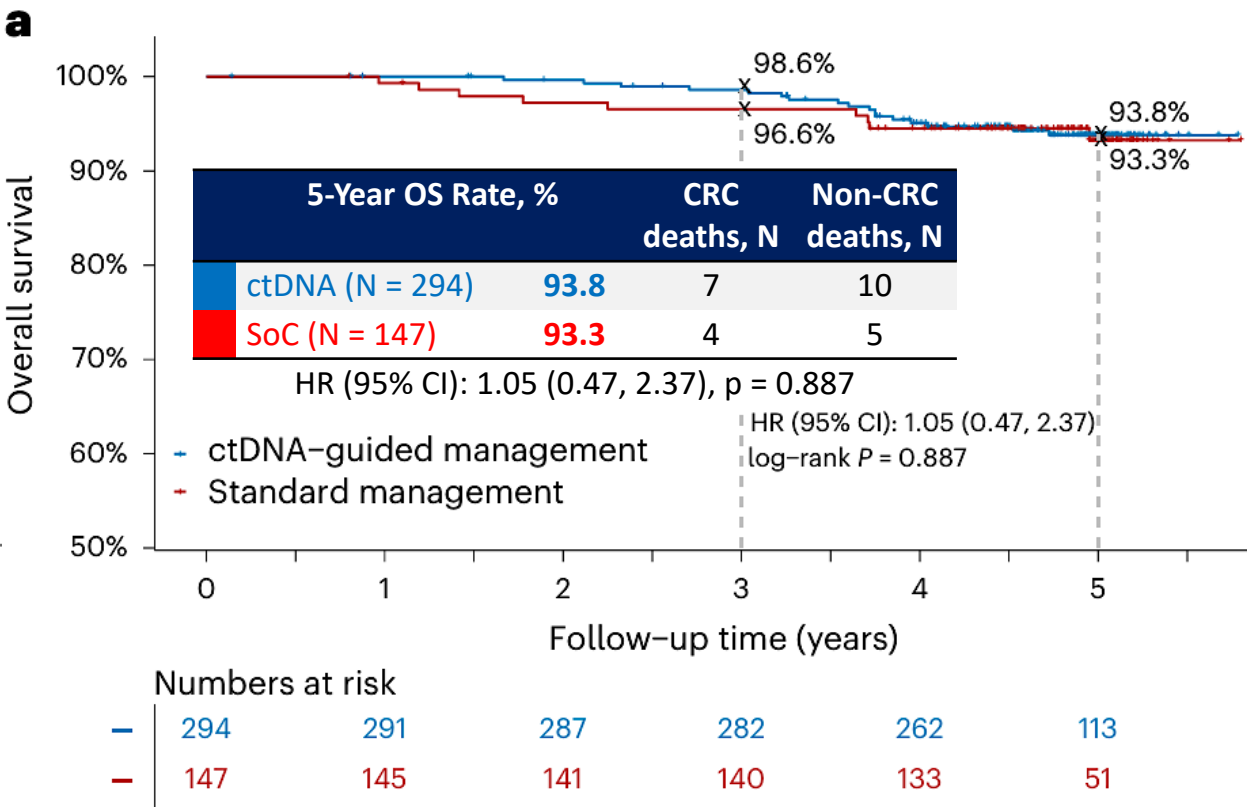
DYNAMIC: Updated 5-year RFS and Overall survival

Difference in 5-year RFS rate +1.1%
(95% CI for difference, -5.8 to 8.0%)

Updated 5-Year RFS Analysis

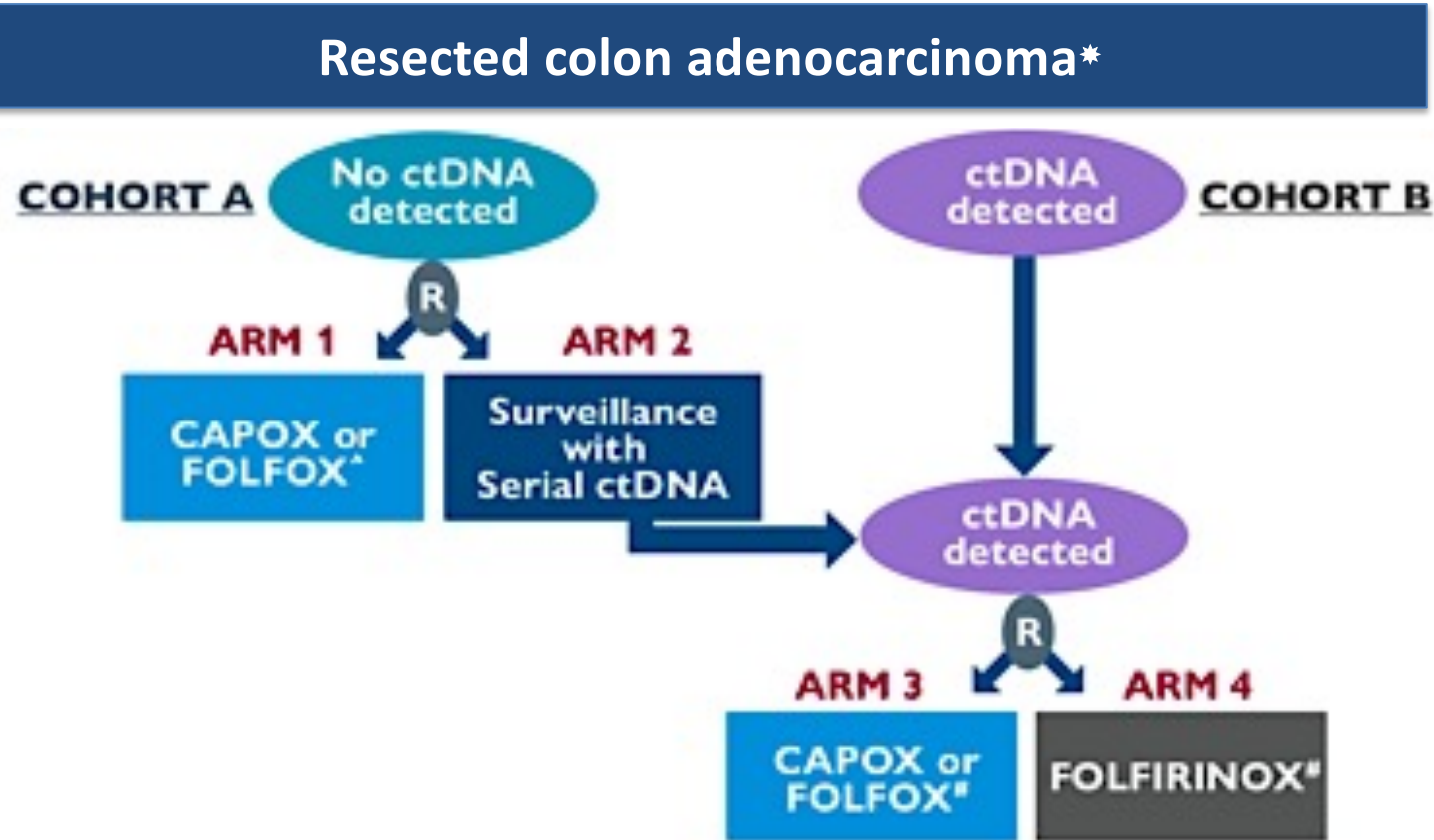


Overall Survival



- ctDNA-guided MRD-based adjuvant therapy significantly reduced the proportion of patients receiving postoperative adjuvant therapy compared to SOC based on conventional clinicopathological factors, while demonstrating non-inferiority in 5-year RFS/OS.

CIRCULATE-US (NRG-GI008)



Primary endpoints

Cohort A: ctDNA negative

- Phase II: Time to ctDNA+
- Phase III: DFS

Cohort B: ctDNA positive

- Phase II/III: DFS

Joint analysis with
Circulate-Japan

Study size: 1,750-1,912

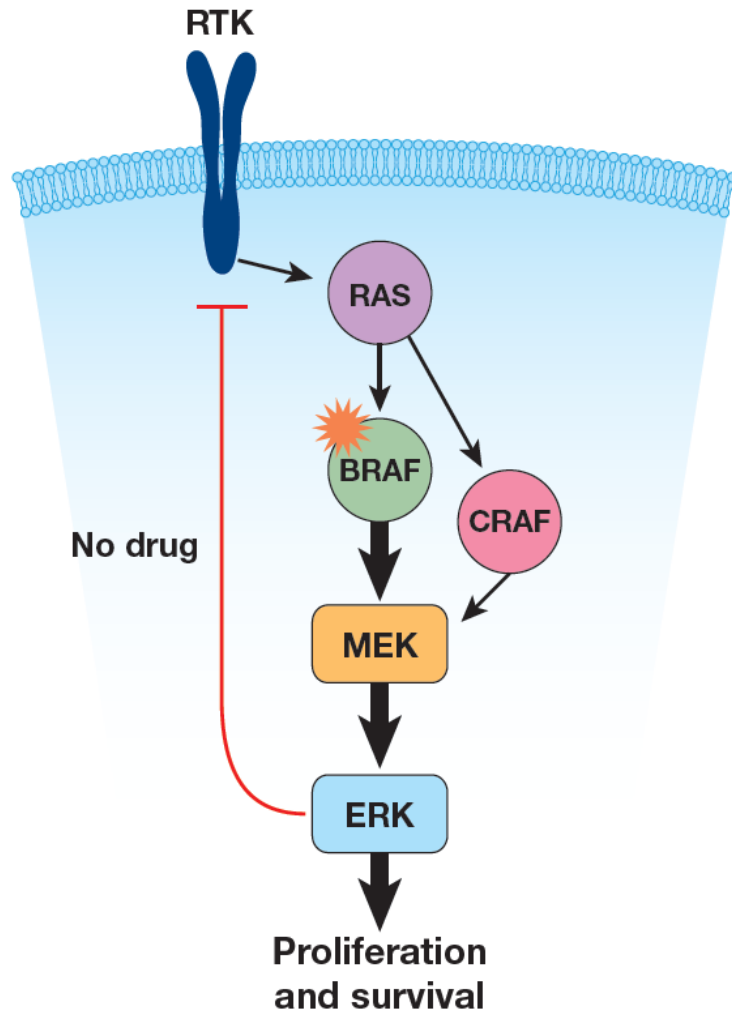
Study PIs: Arvind Dasari (MDACC-NRG)
and Christopher Lieu (UCCC-SWOG)

- * Stage IIB, IIC, or any stage III colon cancer post-R0 resection
- Arm 2 pts who become ctDNA +ve may cross-over to Cohort B
- ^ Duration and regimen per MD discretion
- # Duration of therapy 6 mos.
- Randomization in both arms 1:1
- Stratification factors: 5FU vs cape, Stage (II/IIIA vs IIIB vs IIC, Cohort A), Initial post-op ctDNA status (+ vs -, Cohort B).

MRD monitoring for CRC: Key points

- MRD testing is a validated prognostic tool
- Observational data demonstrates no advantage for adjuvant chemo in patients with MRD negative stage II/III colon ca
- For stage II colon ca, MRD could be considered a “tie-breaker” for adjuvant chemotherapy
- MRD testing might have utility in patients who have resection of metastatic lesions
- Prospective trials are ongoing to explore the clinical utility of escalation and de-escalation strategies

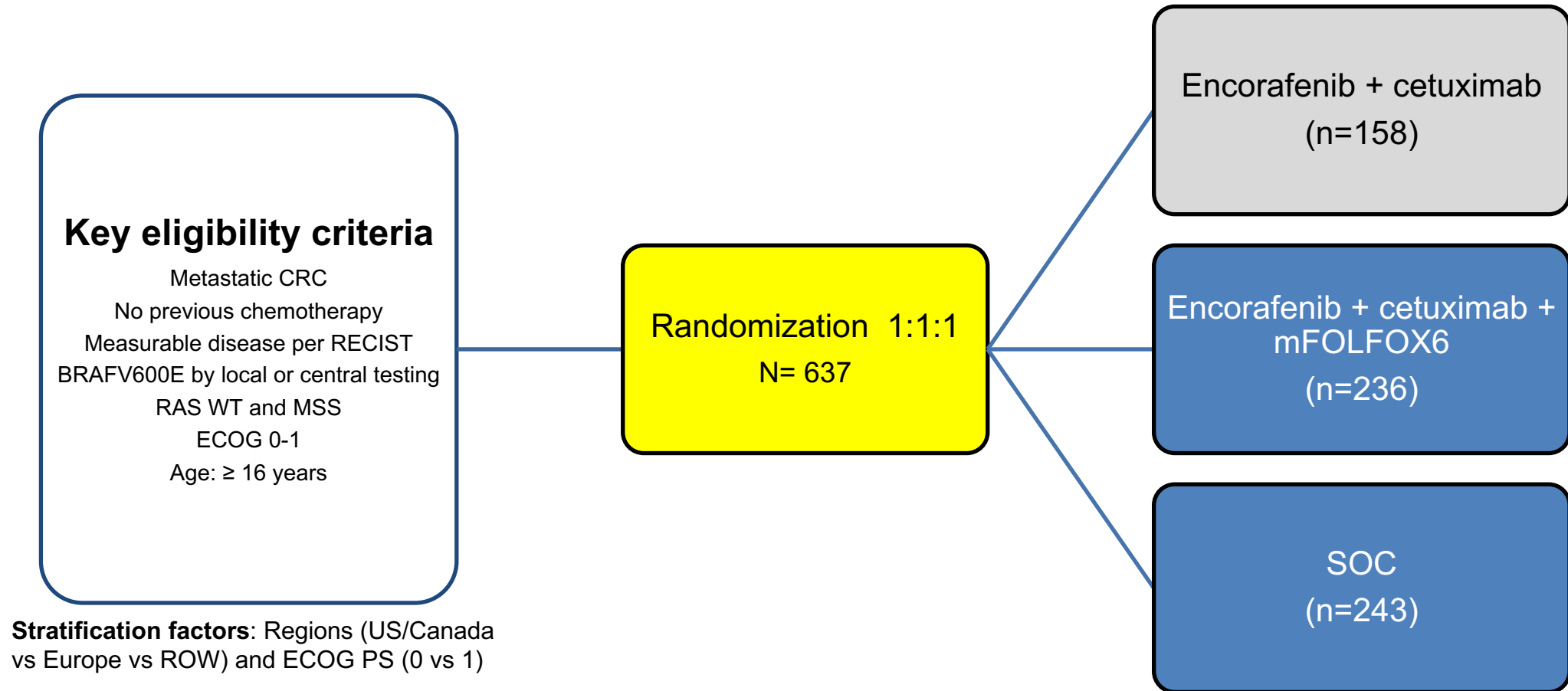
***BRAF^{V600E}* in metastatic CRC**



- ~7% of CRC
- Advanced age
- More common in women
- Right-sided
- Poor prognosis
- 30% are MSI-H
- Limited benefit from anti-EGFR Ab
- For 2L+ mCRC, encorafenib + cetuximab is superior to SOC – FDA approved 4/2020

BREAKWATER: Study Design

Phase 3, randomized, open-label, multicenter study for 1L treatment of BRAF V600E-mutant mCRC (NCT04607421)



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

Key secondary endpoint: Overall survival (EC + mFOLFOX6 vs SOC)

BREAKWATER: 1L EC + mFOLFOX6 vs SOC

	Encorafenib + Cetuximab + mFOLFOX6 (N= 236)	SOC (N= 243)	HR (95% CI)	P-value ^a	Encorafenib + Cetuximab (N= 158)
ORR ^b	65.7%	37.4%			45.6%
PFS ^b , months (95% CI)	12.8 (11.2-15.9)	7.1 (6.8-8.5)	0.53 (0.407-0.677)	<0.0001	6.8 (5.7-8.3)
OS, months (95% CI)	30.3 (21.7-NE)	15.1 (13.7, 17.7)	0.49 (0.375-0.632)	<0.0001	19.5 (17.6-22.5)

^a one-sided stratified log rank test

^b By BICR

BREAKWATER: Safety Summary

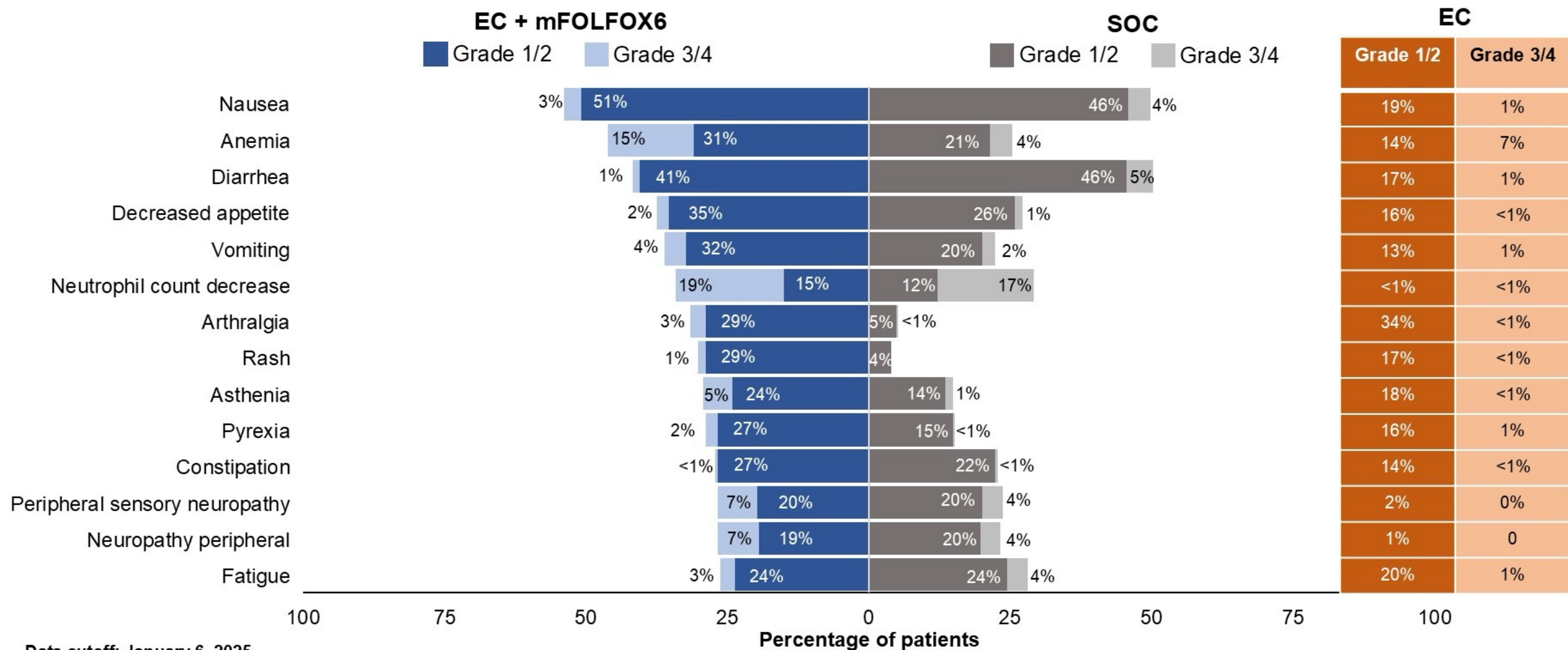
Patients, n (%)	EC n=153	EC + mFOLFOX6 n=232	SOC n=229
Duration of treatment, median (range), weeks	27.0 (2.0-153.6)	49.8 (1.3-161.9)	25.9 (2.0-150.0)
All causality			
TEAE	149 (97.4)	232 (100)	227 (99.1)
Grade 3 or 4 TEAE	65 (42.5)	189 (81.5)	153 (66.8)
Grade 5 TEAE	4 (2.6)	10 (4.3)	10 (4.4)
Serious TEAE	46 (30.1)	107 (46.1)	89 (38.9)
TEAE leading to permanent discontinuation of any study treatment	20 (13.1)	62 (26.7)	40 (17.5)
TEAE leading to dose reduction of any study treatment	16 (10.5)	152 (65.5)	124 (54.1)
TEAE leading to dose interruption of any study treatment	63 (41.2)	212 (91.4)	168 (73.4)
Treatment-related			
AE related to any drug	136 (88.9)	232 (100)	217 (94.8)
Grade 3 or 4 TRAE	24 (15.7)	177 (76.3)	134 (58.5)
Grade 5 TRAE	0	0	1 (0.4) ^a
Serious AE related to any drug	10 (6.5)	45 (19.4)	50 (21.8)

Data cutoff: January 6, 2025.

^aSepsis (preferred term).

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

BREAKWATER: Most frequent all-causality TEAEs



Data cutoff: January 6, 2025.
^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*: Key points**

- *BRAF*^{V600E} mutations are associated with poor prognosis and EGFR resistance
- 1L Encorafenib + cetuximab + FOLFOX is the new standard of care for newly diagnosed *BRAF*^{V600E} mutated metastatic CRC
- Rapid biomarker testing at the time of diagnosis of metastatic disease is essential

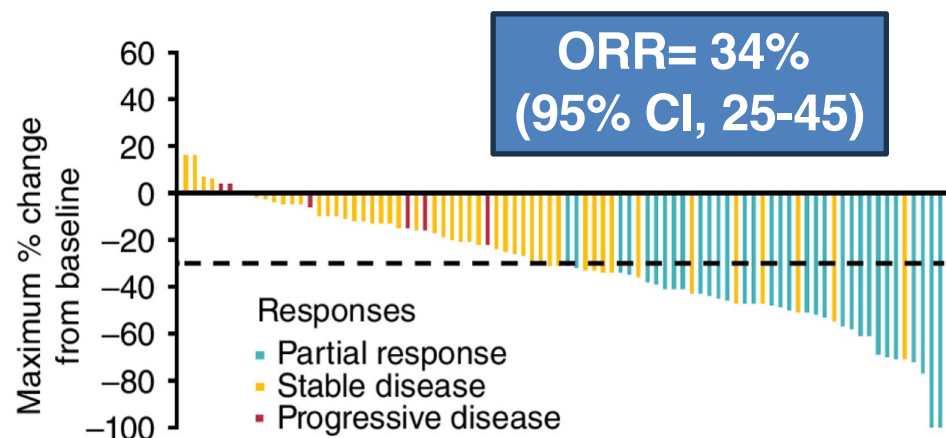
KRAS G12C Inhibitors Have Modest Single-Agent Activity in *KRAS* G12C–Mutant mCRC

	Adagrasib (n = 43) ^a	Divarasib (n = 55)	Sotorasib (n = 62)
Objective response % (95% CI) per BICR	23 (12-39)	29 (18-43)	10 (4-20)
Median duration of response, mo (95% CI)	4.3 (2.3-8.3)	7.1 (5.5-7.8)	4.2 (2.9-8.5)
Median PFS, mo (95% CI)	5.6 (4.1-8.3)	5.6 (4.1-8.2)	4 (2.8-4.2)
Median OS, mo (95% CI)	19.8 (12.5-23.0)	Not reported	10.6 (7.7-15.6)
AE leading to dose reduction, n (%)	17 (39)	41 (30) ^b	11 (18) ^c
AE leading to discontinuation, n (%)	0 (0)	4 (3) ^b	1 (2)

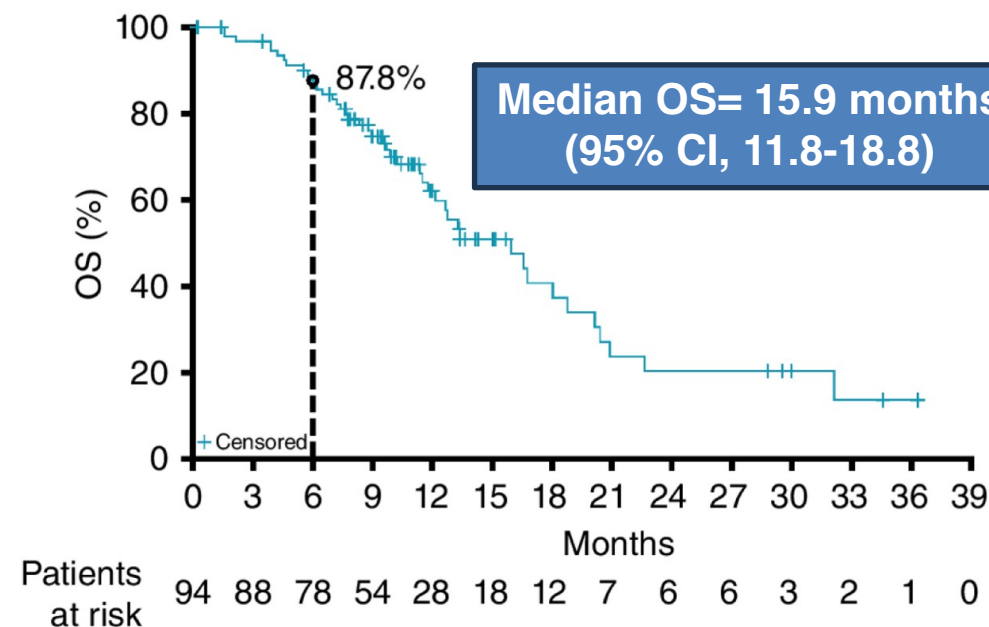
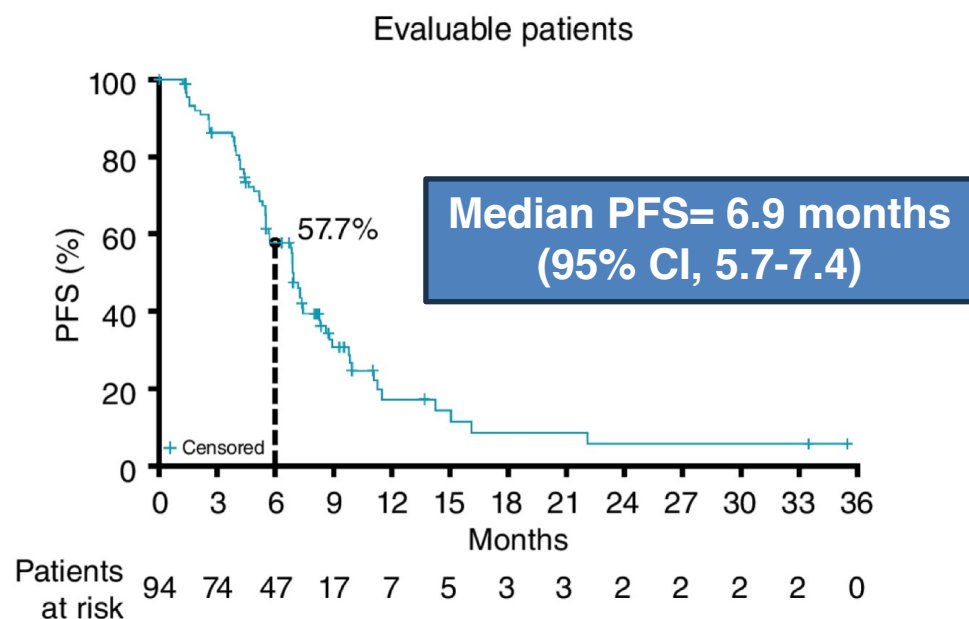
^a 1 patient withdrew from study prior to first assessment. ^b Includes all solid tumors treated with divarasib. ^c Includes dose hold.

1. Yaeger R et al. *N Engl J Med*. 2023;388:44-54. 2. Sacher A et al. *N Engl J Med*. 2023;710-721. 3. Fakih MG et al. *Lancet Oncol*. 2022;23:115-124.

Adagrasib + cetuximab for *KRAS* G12C–Mutant mCRC



In June 2024, the FDA approved adagrasib + cetuximab for patients with *KRAS* G12C–mutated mCRC



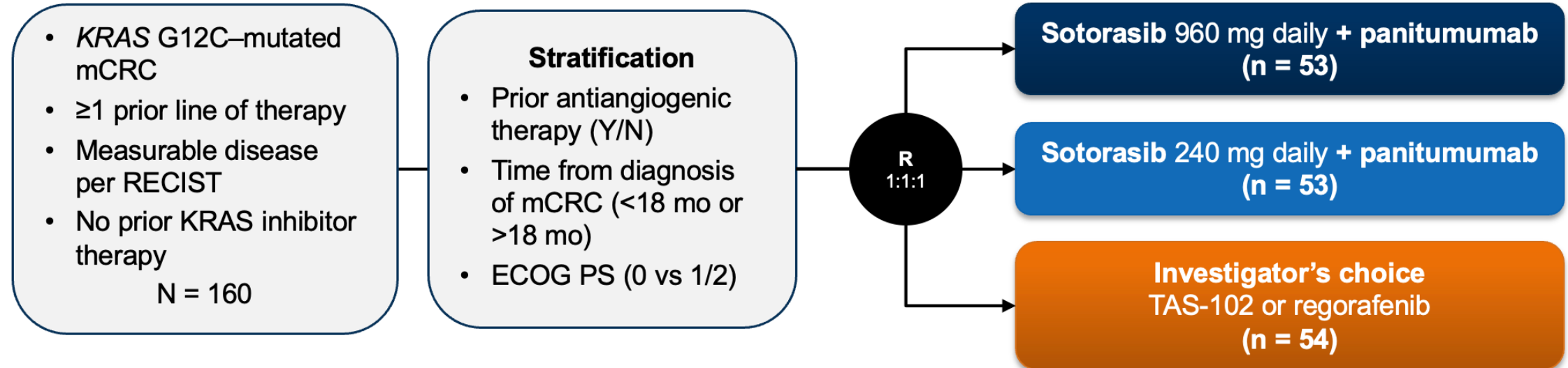
Adagrasib + cetuximab for *KRAS* G12C–Mutant mCRC

Summary of TRAEs (N = 94)

TRAEs, n (%)	Any Grade	Grade 1	Grade 2	Grade 3	Grade 4
Any TRAEs	94 (100)	8 (8.5)	60 (63.8)	22 (23.4)	4 (4.3)
Most frequent TRAEs, n (%)					
Nausea	57 (60.6)	35 (37.2)	20 (21.3)	2 (2.1)	0
Vomiting	48 (51.1)	30 (31.9)	18 (19.1)	0	0
Diarrhea	46 (48.9)	31 (33)	14 (14.9)	1 (1.1)	0
Dermatitis acneiform	45 (47.9)	28 (29.8)	15 (16)	2 (2.1)	0
Fatigue	40 (42.6)	23 (24.5)	16 (17.0)	1 (1.1)	0
Dry skin	32 (34)	24 (25.5)	8 (8.5)	0	0
Hypomagnesemia	27 (28.7)	17 (18.1)	7 (7.4)	2 (2.1)	1 (1.1)
Headaches	25 (26.6)	14 (14.9)	8 (8.5)	3 (3.2)	0
Rash	21 (22.3)	11 (11.7)	8 (8.5)	2 (2.1)	0

- 29% of patients had a dose reduction of adagrasib
- No patients experienced a TRAE leading to discontinuation of adagrasib

CodeBreakK300: Sotorasib + panitumumab for *KRAS* G12C–Mutant mCRC



	Sotorasib 960 mg + PMAb (n = 53)	Sotorasib 240 mg + PMAb (n = 53)	Investigator's Choice (n = 54)
Median PFS, mo	5.6	3.9	2.2
HR (95% CI; <i>P</i>)	0.49 (0.30-0.80; 0.006)	0.58 (0.36-0.93; 0.03)	(-;-)
ORR, %	26	6	0
(95% CI per BICR)	(15.3-40.3)	(1.2-15.7)	(0-6.6)
Disease control rate, %	72	68	46
(95% CI per BICR)	(57.7-83.2)	(53.7-80.1)	(32.6-60.4)

CodeBreakK300: Treatment discontinuation due to TRAEs was rare

	Sotorasib 960 mg + Panitumumab (n = 53)	Sotorasib 240 mg + Panitumumab (n = 53)	Investigator's Choice (n = 54)
Any AE, n (%)	50 (94.3)	51 (96.2)	42 (82.4)
Grade ≥ 3 event, n (%)	19 (35.8)	16 (30.2)	22 (43.1)
AE leading to sotorasib discontinuation, n (%)	1 (1.9)	1 (1.9)	—
Skin and subcutaneous tissue disorders, n (%)	44 (83.0)	45 (84.9)	11 (21.6)

FOLFIRI + Sotorasib + Panitumumab: ORR and PFS by line of therapy

	1 st Line N=40	2 nd Line N= 13	3 rd Line N= 12	≥ 4 th Line N= 15
CodeBreakK 101	Cohort F	Cohort G	Cohort G	Cohort G
ORR	78%	69%	58%	47%
PFS	Not reached	8.3 mo	7.1 mo	8.4 mo

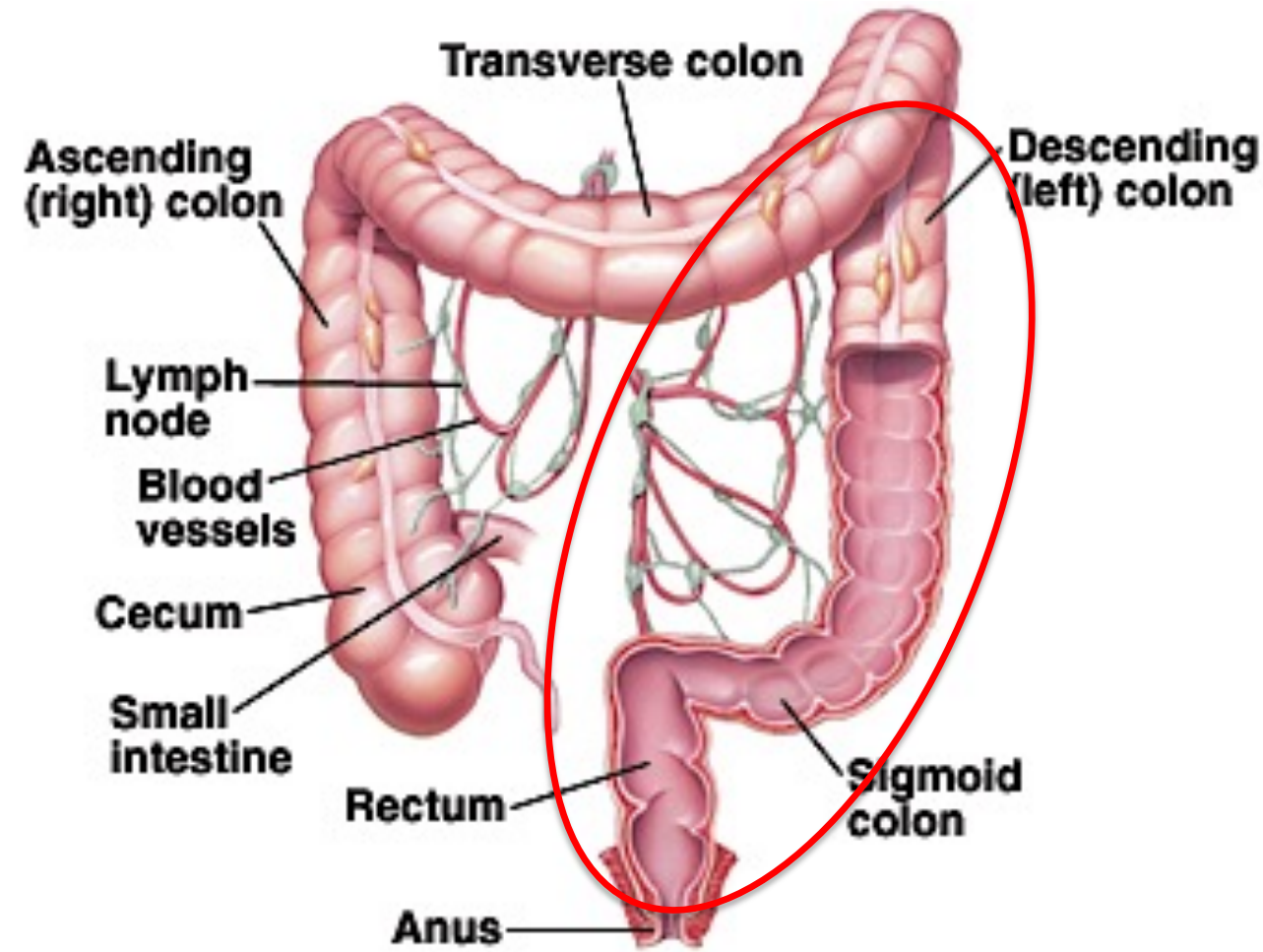
- ORR was numerically higher for those with fewer lines of prior therapy
- Responses were observed regardless of progression on prior irinotecan

Targeting KRAS: Key points

- KRAS G12C inhibitors have limited single agent activity in mCRC – combinations with anti-EGFR Abs are required
- Adagrasib + cetuximab and sotorasib + panitumumab are active and generally well tolerated – now FDA approved
- Future therapeutic strategies for KRAS G12C may combine cytotoxic chemotherapy with targeted therapies

HER2 in Metastatic CRC

- Usually left-sided
- ~ 3% of patients with metastatic CRC
- Enriched in patients with *RAS/ BRAF* WT disease
- Associated with lung, brain metastases
- May drive resistance to EGFR antibodies



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

Key eligibility criteria

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

NCT03043313

Cohort A
Tucatinib +
Trastuzumab
(n=45)

R
(4:3)

Cohort B
Tucatinib +
Trastuzumab
(n=41)

Cohort C*
Tucatinib (n=31)

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

Primary endpoint:

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

Secondary endpoints:

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

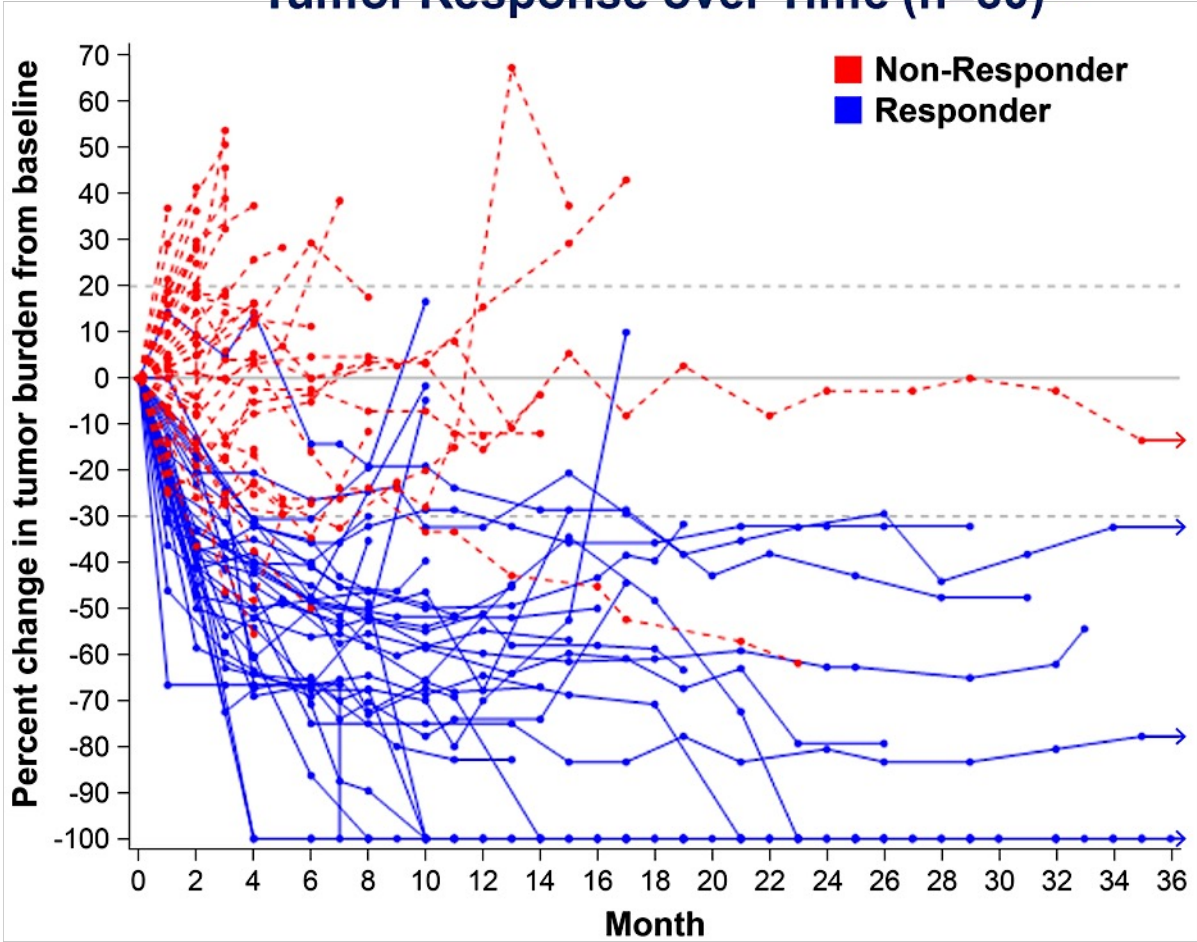
- Tucatinib is an oral, small molecule TKI that targets HER2
- Highly selective for the HER2 receptor
- Selectivity may improve tolerability (skin rash, diarrhea, etc.) compared to non-selective TKIs

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

MOUNTAINEER: Efficacy outcomes for tucatinib + trastuzumab

	Cohorts A+B Final analysis (n=84)
cORR, % (95% CI)	39.3 (28.8–50.5)
Median DOR, mo (95% CI)	15.2 (8.9–20.5)
Median PFS, mo (95% CI)	8.1 (4.2–10.2)
Median OS, mo (95% CI)	23.9 (18.7–28.3)
• Median follow-up: 32.4 months	

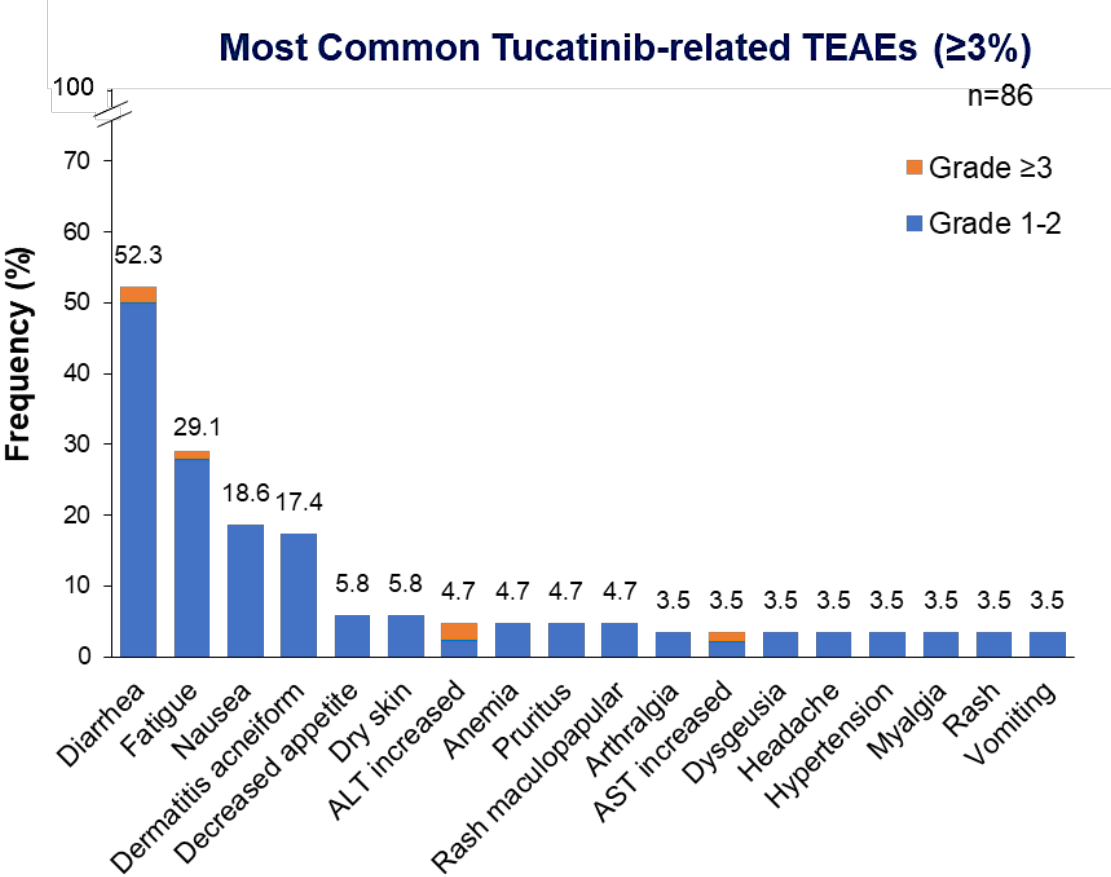
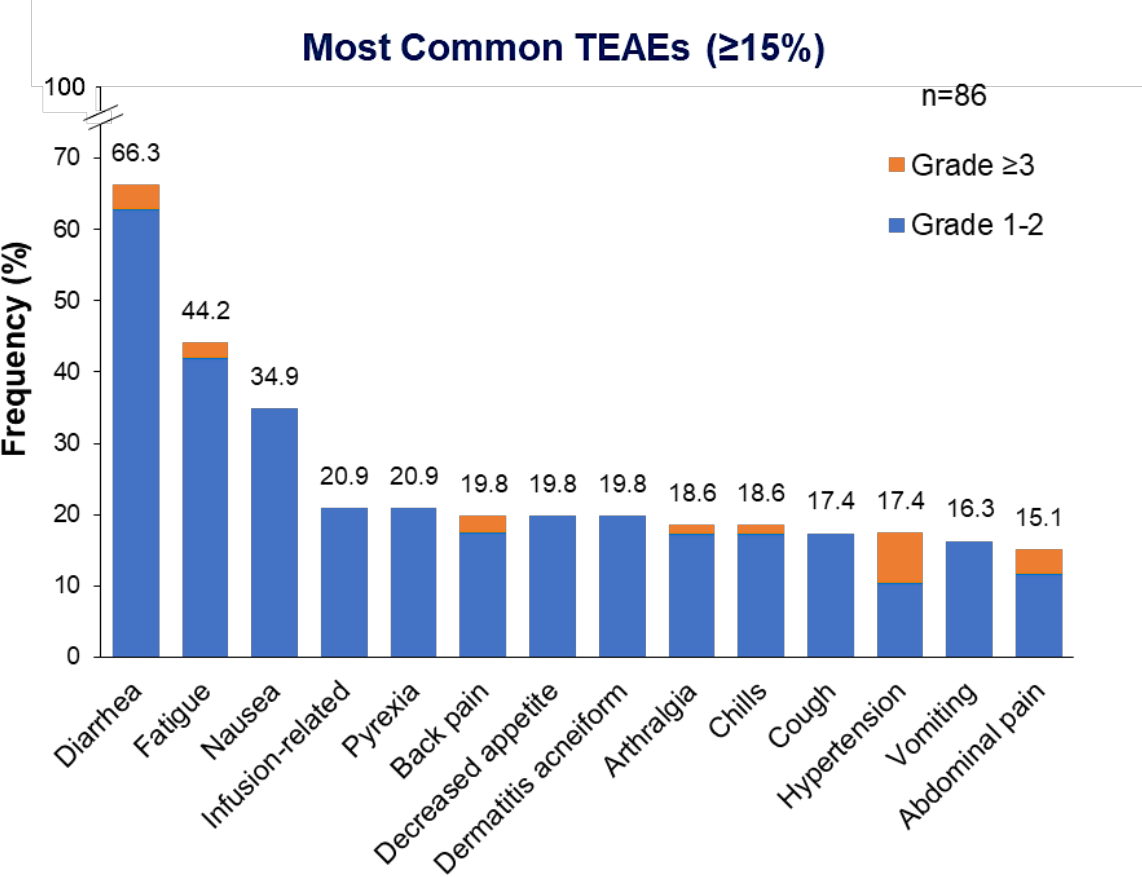
Tumor Response over Time (n=80)^{a,b}



^a Data up to 36 months are included; ^b Arrows denote treatment duration beyond 36 months.
CI, confidence interval; cORR, confirmed objective response rate; DOR, duration of response; mo, months; OS, overall survival; PFS, progression-free survival.

MOUNTAINEER: Tucatinib + trastuzumab AE profile

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



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

DESTINY-CRC01: Trastuzumab deruxtecan (T-DXd) for HER2+ mCRC - Efficacy Outcomes

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

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

Data cutoff (Dec 28, 2020)

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

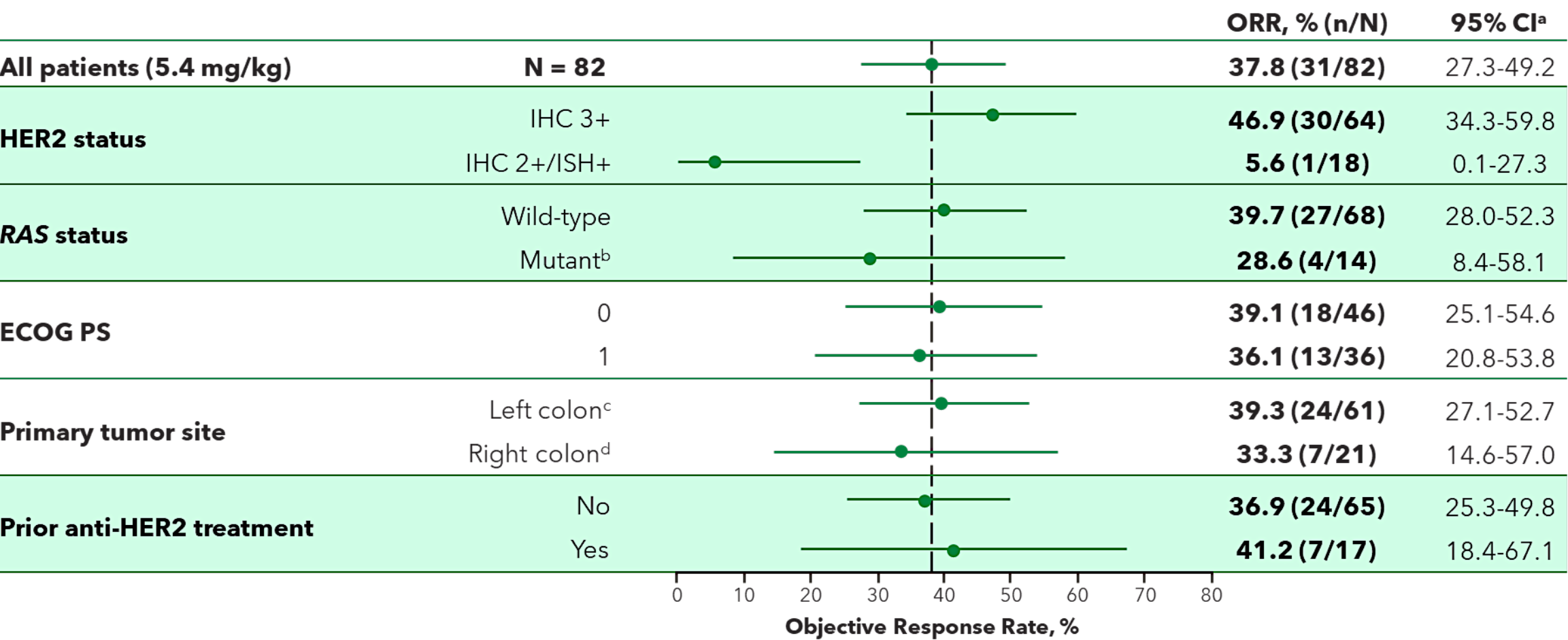
DESTINY-CRC02: Trastuzumab deruxtecan for HER2+ mCRC - Efficacy Outcomes

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

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

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

DESTINY-CRC-02: Trastuzumab deruxtecan for HER2+ mCRC - Best ORR (BICR) by T-DXd 5.4 mg/kg Subgroup



How I treat HER2+ metastatic CRC

Test *HER2*, *RAS*, and *BRAF* prior to start of 1st line treatment

HER2+
NGS (preferred)
or IHC3+
or IHC2+/ISH+

Chemotherapy +
bevacizumab

RAS or
BRAF
mutation?

YES

Trastuzumab
deruxtecan
5.4mg/kg

NO

Tucatinib +
Trastuzumab

Trastuzumab
deruxtecan
5.4mg/kg

Consider repeat biopsy or ctDNA
for HER2 biomarker testing

Options after progression

- Clinical trial
- Chemotherapy + bevacizumab
- Chemotherapy + anti-EGFR if HER2 is low/ lost on re-biopsy
- Consider in select circumstances: trastuzumab + pertuzumab or lapatinib

Data + Perspectives: Clinical Investigators Explore the Application of Recent Datasets in Current Oncology Care

CME/MOC, NCPD and ACPE Accredited

**Saturday, October 11, 2025
7:15 AM – 12:30 PM ET**

ctDNA-Guided Adjuvant Chemotherapy De-escalation in Stage III Colon Cancer: Primary Analysis of the ctDNA-Negative Cohort from the Randomized AGITG DYNAMIC-III Trial (Intergroup Study of AGITG and CCTG)

Tie J et al.

ESMO 2025;Abstract LBA9.

PRESIDENTIAL SYMPOSIUM III | MONDAY, OCTOBER 20 | 16:52 CEST

Circulating Tumour DNA (ctDNA) Clearance and Correlation with Outcome in the INTERCEPT Colorectal Cancer (CRC) Study

Osterlund O et al.

ESMO 2025;Abstract 732MO.

MINI ORAL | SUNDAY, OCTOBER 19 | 14:50 CEST

Questions from General Medical Oncologists

- **Do you prefer tumor-informed MRD assays versus tumor-naïve assays in early-stage CRC?**
- **Is Signatera the best/only option for ctDNA monitoring?**

Questions from General Medical Oncologists

- **Outside of a clinical trial, how do you utilize ctDNA monitoring in Stage II disease? Stage III disease?**
- **What do you make of the results from the CALGB/SWOG 80702 trial, and are you considering celecoxib for any of your patients?**

Questions from General Medical Oncologists

- **Can ctDNA be used for oligometastatic disease after definitive surgery and NED on scans?**

Questions from General Medical Oncologists

- **How do you prevent and manage toxicities with the BREAKWATER regimen?**
- **What do we know about BRAF inhibition in the adjuvant setting?**
- **Is there any way to target BRAF non-V600E mutations?**

Questions from General Medical Oncologists

- **Do I need to retest for HER2 on disease progression in mCRC?**
- **T-DXd or tucatinib/trastuzumab first for HER2-positive mCRC?**
- **Would you use T-DXd for HER2-low mCRC?**

Questions from General Medical Oncologists

- **Do you prefer sotorasib or adagrasib?**