



Treatment Landscape of metastatic Colorectal Cancer

Heinz-Josef Lenz

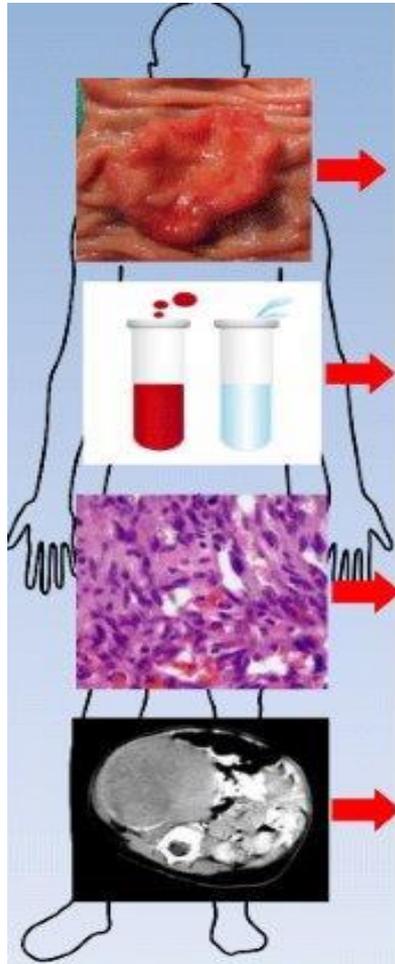
Professor of Medicine and Preventive Medicine
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Director, USC Center for Cancer Drug Development

USC/Norris Comprehensive Cancer Center

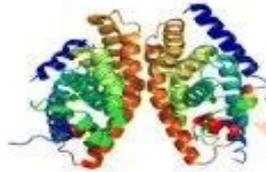
Los Angeles, California



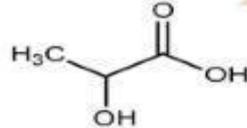
Genomics



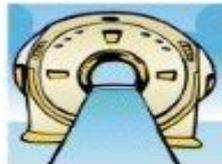
Transcriptomics



Proteomics



Metabolomics

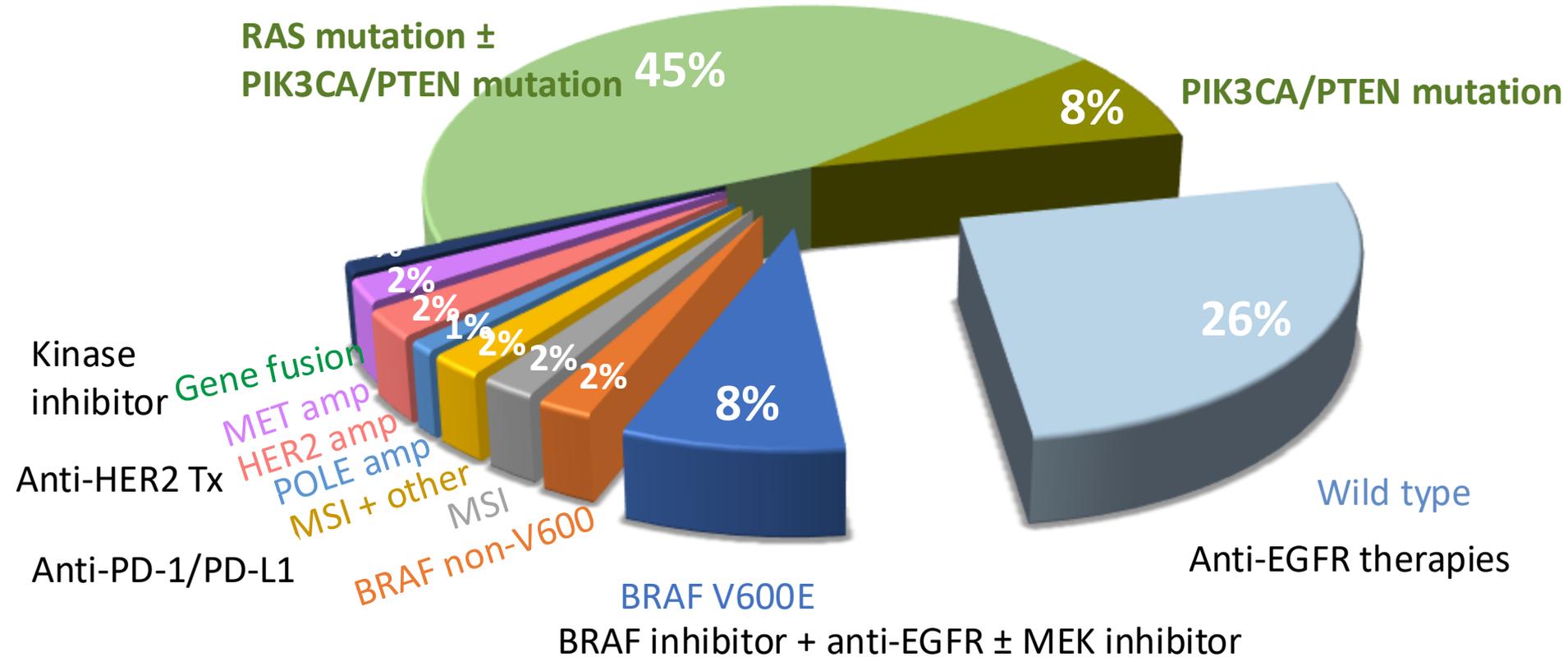


Radiomics

Prediction
Prevention
Personal treatment

Rectum adenocarcinoma
Esophageal Adenocarcinoma
Prostate Cancer
Pancreatic Cancer
Ovarian serous cystadenocarcinoma
Acute Myeloid Leukemia
Kidney Chromophobe
Bone Cancer
Esophageal carcinoma
Colon adenocarcinoma
Gallbladder cancer
Sarcoma
Oral Cancer
Chronic Myeloid Disorders
Bladder Urothelial Carcinoma
Breast invasive carcinoma
Colorectal Cancer
Kidney renal clear cell carcinoma

Genomic Markers in CRC



CRC = colorectal cancer.

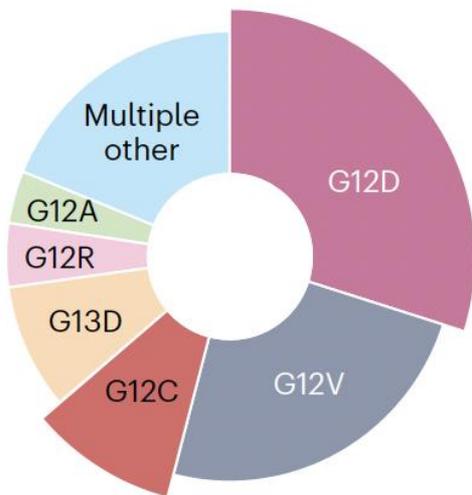
Dienstmann R, et al. *Am Soc Clin Oncol Educ Book*. 2018;38:231-238.

Novel Approaches

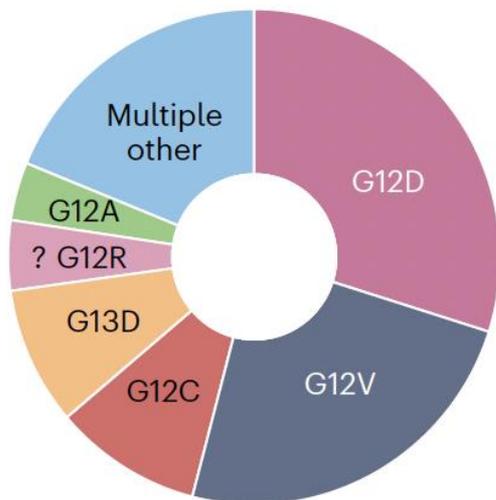
1.RAS (G12C)

2. Pan Ras Inhibitors

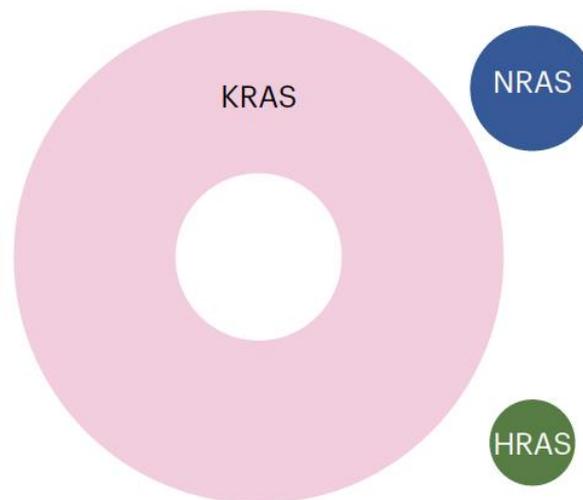
Mutation-selective inhibitors



Pan-KRAS inhibitors



Pan-RAS inhibitors



MRTX-1133

ASP-3082

RMC-9805

INC-161734

HRS-4642

LY3962673

BI-2865

BI-3706674

RMC-6236

Smallest

Effective patient population

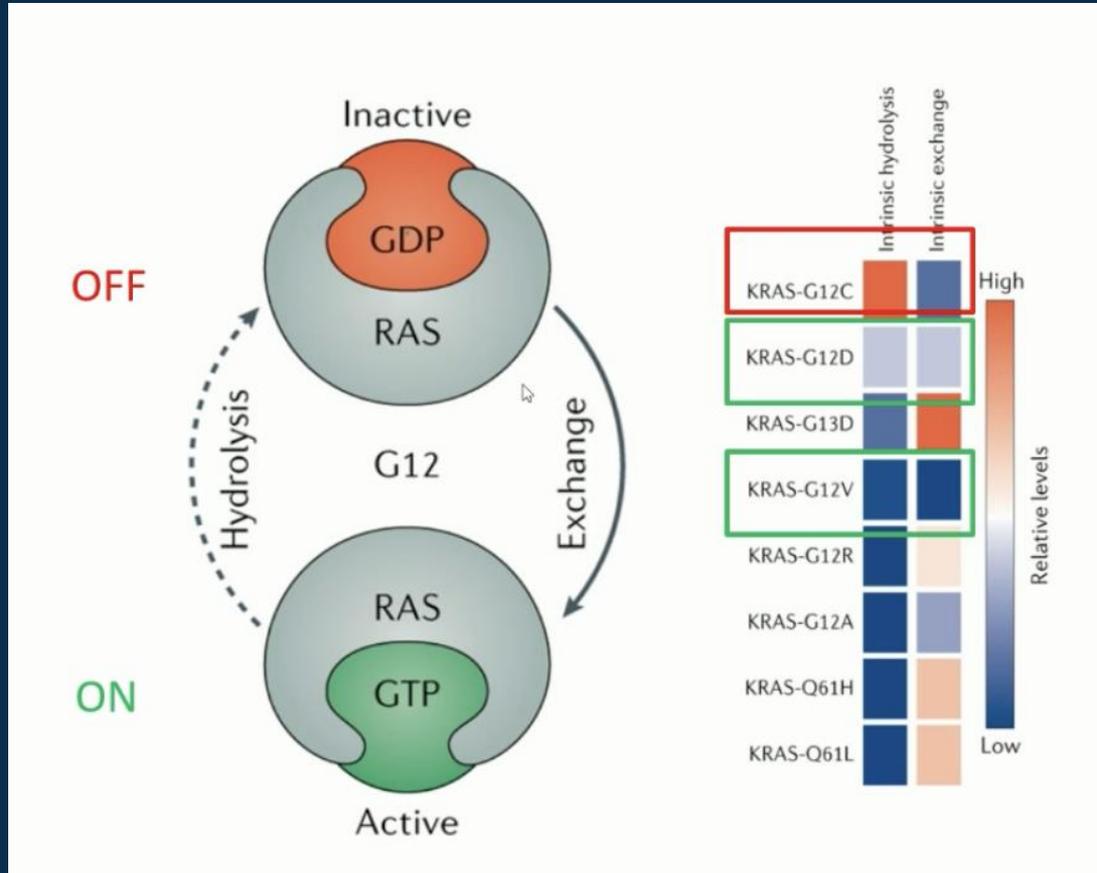
Largest

Most favorable

Predicted tolerability profile

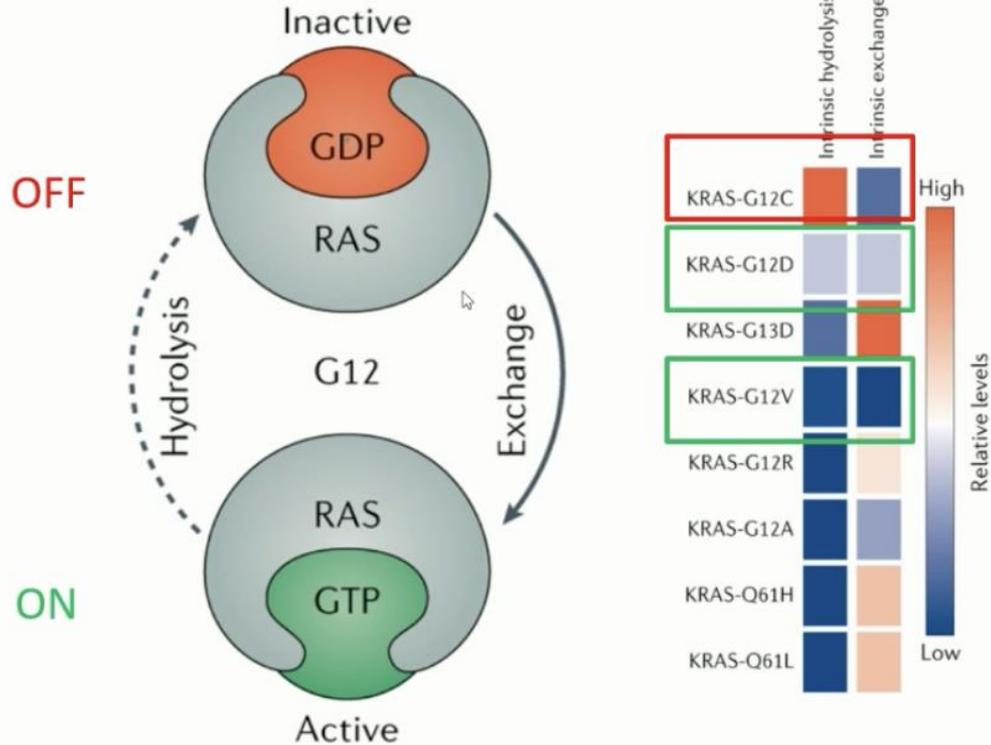
Least favorable

RAS mutation in various cancers



KRAS G12V and G12D have a much lower rate of intrinsic hydrolysis
-> Off state inhibitors not as active

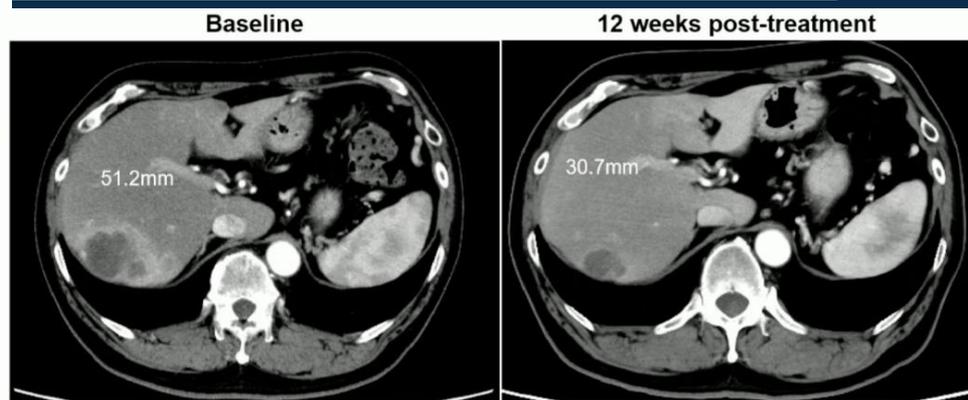
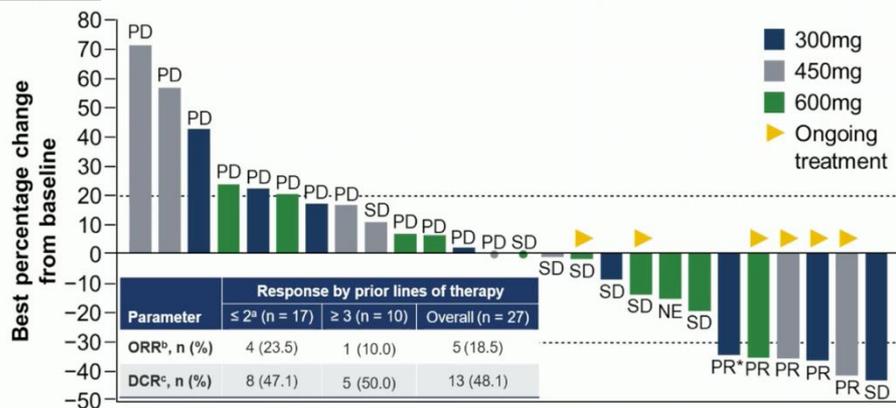
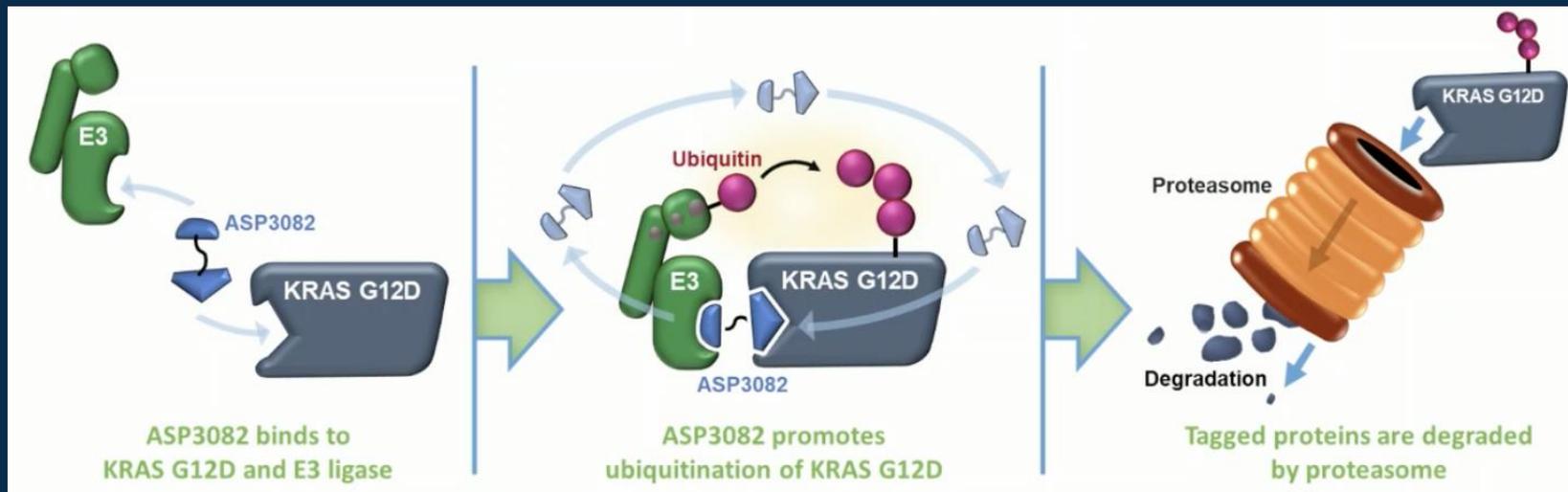
RAS mutation in various cancers



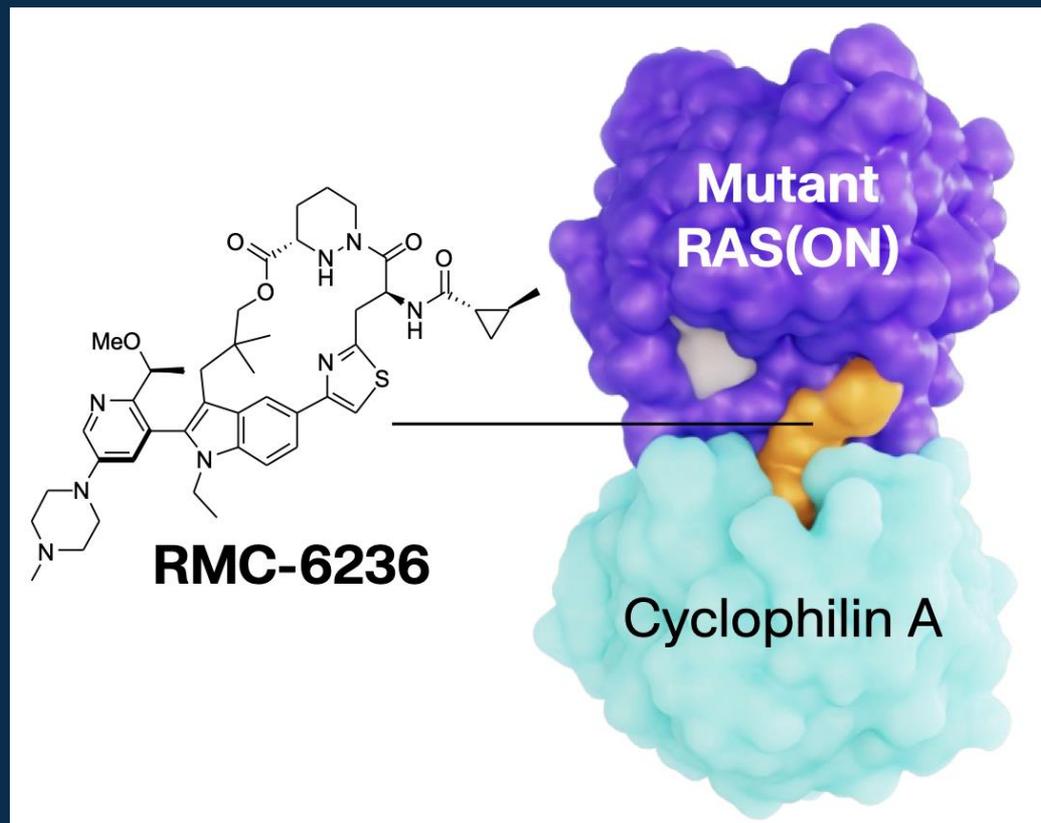
KRAS G12V and G12D have a much lower rate of intrinsic hydrolysis -> Off state inhibitors not as active

Hunter et al., Mol Cancer Res 2015
Moore et al., Nat Rev Drug Disc 2020

ASP3082 – KRAS G12D targeted protein degrader (Park, ESMO 2024)



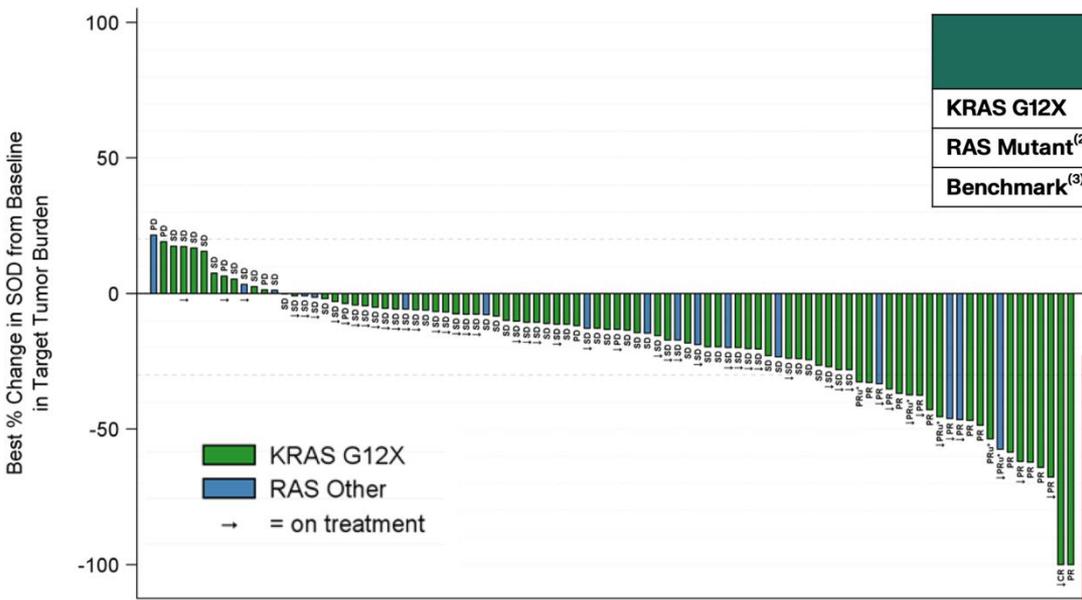
RMC-6236



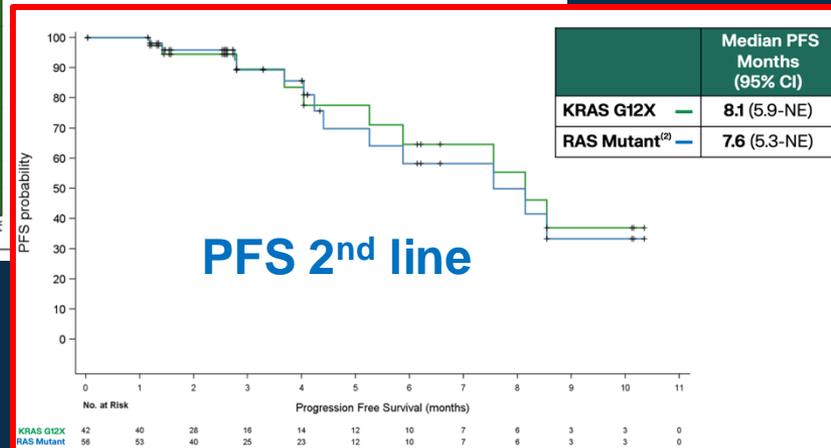
- Inhibitor recruits and binds to chaperone protein Cyclophilin A
- Tri-complex tailored to bind different RAS(ON) proteins
- Conformation change and steric inhibition of oncogenic activity

Activity of RMC-6236 in 2nd+ Line mPDAC

| | ORR 14+ week ⁽¹⁾ | ORR 20+ week ⁽¹⁾ | DCR 14+ week ⁽¹⁾ |
|---------------------------------|-----------------------------|-----------------------------|-----------------------------|
| KRAS G12X | 20% (16/79) | 27% (13/48) | 87% (69/79) |
| RAS Mutant⁽²⁾ | 21% (20/97) | 26% (16/61) | 88% (85/97) |
| Benchmark⁽³⁾ | 9% | | NA |



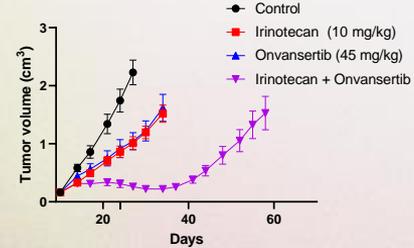
N=127



Phase 1b/2 Trial Rationale and Study Design: Adding Onvansertib to Standard-of-Care

Rationale: Synergy in combination with irinotecan

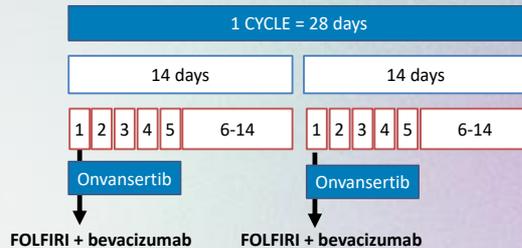
- In a KRAS mutant CRC mouse model, the combination of onvansertib and irinotecan significantly reduced tumor growth compared with either drug alone⁵



Study Design: Phase 1b/2 open-label

- ▶ Second-line treatment of KRAS mutant metastatic CRC patients
- ▶ Phase 1b dose escalation with Phase 2 expansion at RP2D

Dosing Schedule



Enrollment Status as of April 1, 2020

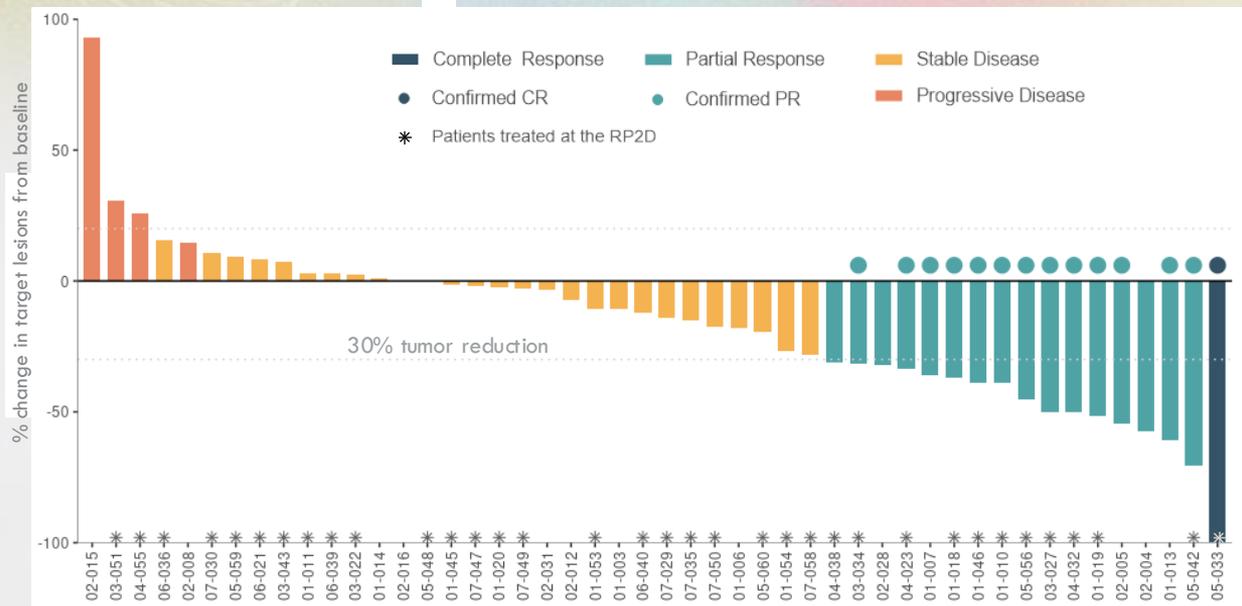
| Number of patients (N) | Cohort 1 Onvansertib 12 mg/m ² | Cohort 2 Onvansertib 15 mg/m ² | Cohort 3 Onvansertib 18 mg/m ² |
|----------------------------------|---|---|---|
| Treated | 6 | 3 | 3 |
| Completing 1 st cycle | 6 | 3 | 0 |
| Currently on Treatment | 5 | 2 | 3 |

Efficacy Endpoints:

- ▶ **Primary:** Objective response rate (ORR) in patients who receive at least 1 cycle of treatment
- ▶ **Secondary:** Progression-free survival (PFS) and reduction in KRAS allelic burden

Patients achieved a strong, durable response with onvansertib + SoC

Best Radiographic Response* – all doses (as of July 25, 2022)



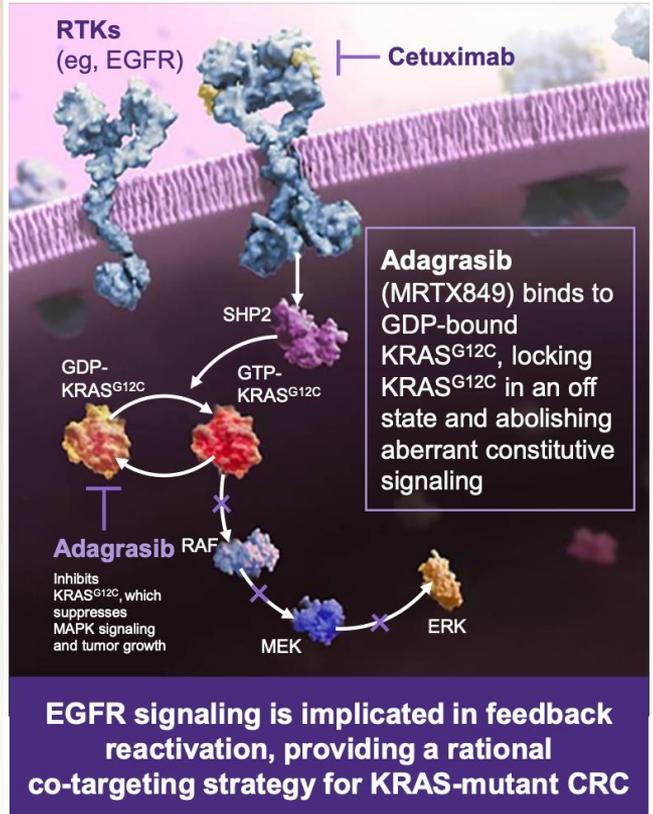
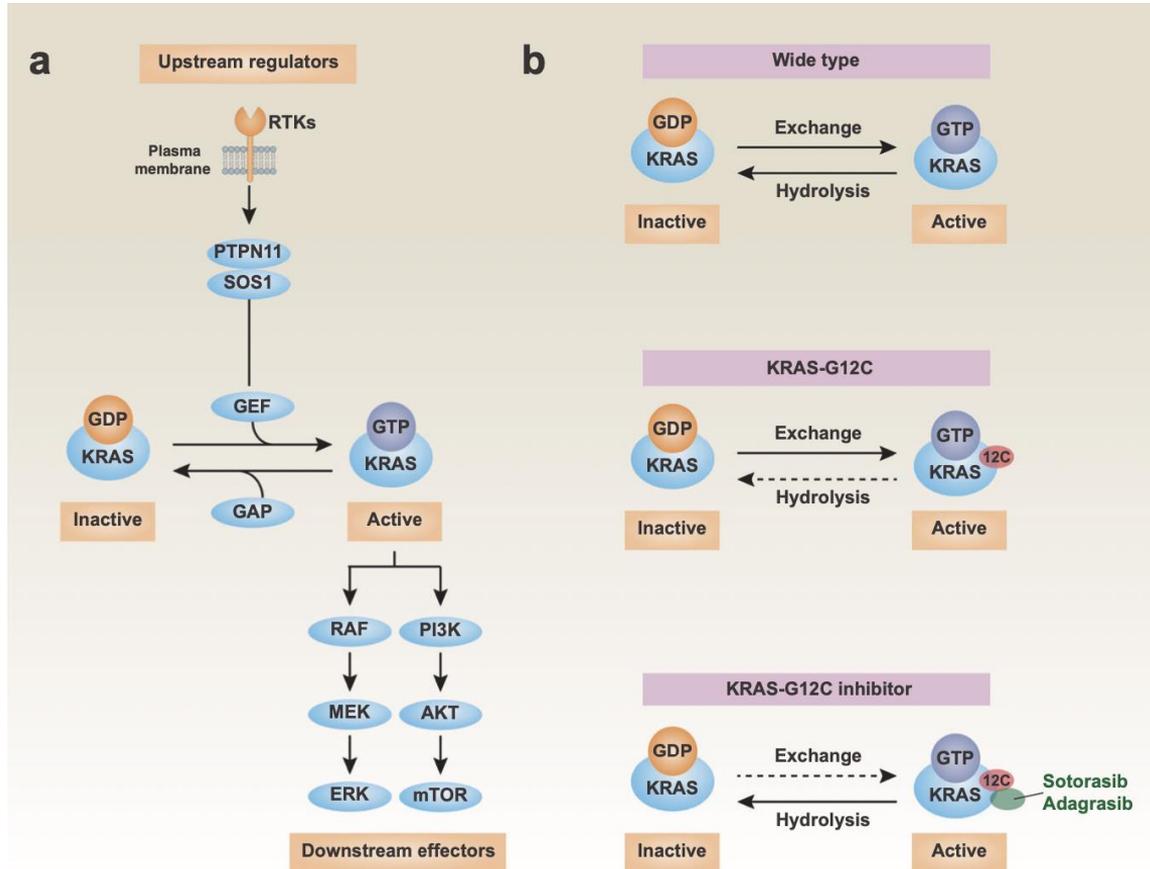
| | All Doses | RP2D |
|-------------------------------------|-------------|-------------|
| Objective Response Rate* (CR + PR) | 35% (17/48) | 34% (12/35) |
| Disease Control Rate (CR + PR + SD) | 92% (44/48) | 94% (33/35) |

Durability

| | | |
|-----------------------------|-------------|-------------|
| Median Duration of Response | 11.7 months | 12.5 months |
|-----------------------------|-------------|-------------|

- Radiographic response determined per RECIST 1.1. Waterfall plot and table reflect interim data as of July 25, 2022 from an ongoing trial and unlocked database
- Lenz et al JCO 2024 in press

KRAS G12C Inhibitors (3-4% of mCRC)



CodeBreakK 300 Phase 3 Study Design

Global, randomized, open-label, active-controlled study of sotorasib + panitumumab in mCRC (NCT05198934)

Key eligibility criteria

- ≥ 18 years of age
- KRAS G12C–mutated mCRC, identified through central molecular testing
- ≥ 1 prior line of therapy for mCRC; progressed on or after fluoropyrimidine, irinotecan, and oxaliplatin*
- ECOG ≤ 2
- Measurable disease per RECIST 1.1
- No prior KRAS^{G12C} inhibitor†

Stratified by: prior anti-angiogenic therapy (yes / no), time from diagnosis of mCRC (≥18 mo / <18 mo), ECOG status (0 or 1 / 2)

Randomization
1:1:1 (N = 160)

Sotorasib 960 mg daily +
panitumumab 6 mg/kg 2QW
(n = 53)

Sotorasib 240 mg daily +
panitumumab 6 mg/kg 2QW
(n = 53)

Investigator's choice:
Trifluridine/tipiracil or regorafenib
(n = 54)

Treat until disease progression, start of another anti-cancer treatment, withdrawal of consent, or intolerance of treatment

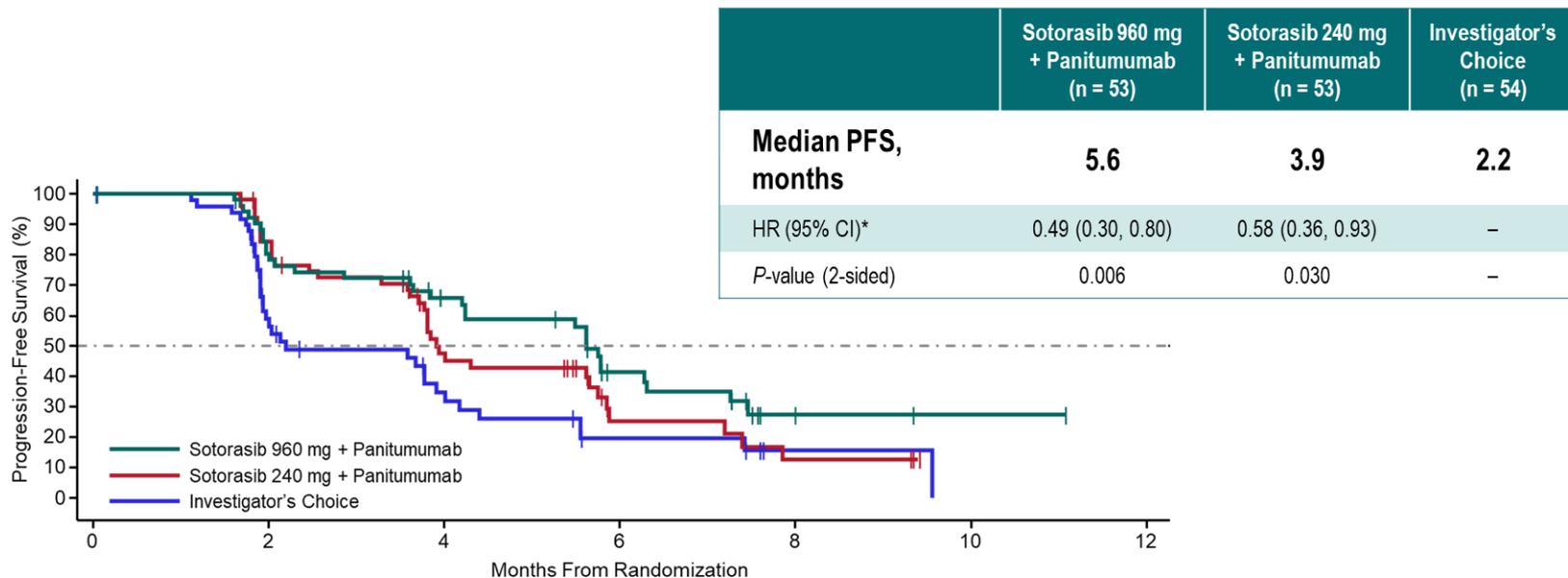
Primary endpoint: PFS by BICR (measured by CT / MRI and assessed by RECIST v1.1)

Key secondary endpoints: OS, ORR

*Patients deemed by the investigator not to be candidates for fluoropyrimidine, irinotecan, or oxaliplatin may still be eligible if ≥ 1 prior line of therapy was received for metastatic disease and trifluridine and tipiracil and/or regorafenib were deemed appropriate next line of therapy. †Patients with prior treatment with trifluridine and tipiracil and with regorafenib were excluded, where the investigator's choice would be these agents.

2QW, every 2 weeks; BICR, blinded independent central review; CT, computed tomography; ECOG, Eastern Cooperative Oncology Group; KRAS, Kirsten rat sarcoma; mCRC, metastatic colorectal cancer; MRI, magnetic resonance imaging; OS, overall survival; ORR, objective response rate; PFS, progression-free survival; RECIST, Response Evaluation Criteria in Solid Tumors.

Primary Endpoint: PFS in Intent-to-Treat Population



Number of Patients at Risk:

| | 0 | 2 | 4 | 6 | 8 | 10 | 12 |
|--------------------------------|----|----|----|----|---|----|----|
| Sotorasib 960 mg + Panitumumab | 53 | 40 | 28 | 13 | 2 | 1 | 0 |
| Sotorasib 240 mg + Panitumumab | 53 | 43 | 20 | 6 | 3 | 0 | |
| Investigator's Choice | 54 | 24 | 12 | 5 | 1 | 0 | |

After a median follow-up of 7.8 months, sotorasib (240 mg and 960 mg) in combination with panitumumab significantly improved PFS by BICR versus investigator's choice

PFS was tested using stratified log-rank test. *HR is sotorasib 960 mg + panitumumab / investigator's choice therapy, or sotorasib 240 mg + panitumumab / investigator's choice therapy. BICR, blinded independent central review; HR, hazard ratio; PFS, progression-free survival.

Activity Outcomes

| Response by BICR | Sotorasib 960 mg + Panitumumab (n = 53) | Sotorasib 240 mg + Panitumumab (n = 53) | Investigator's Choice (n = 54) |
|---------------------------------|---|---|--------------------------------|
| ORR, % (95% CI)*† | 26 (15.3–40.3) | 6 (1.2–15.7) | 0 (0–6.6) |
| Complete response, n (%) | 1 (2) | 0 | 0 |
| Partial response, n (%) | 13 (25) | 3 (6) | 0 |
| Stable disease, n (%) | 24 (45) | 33 (62) | 25 (46) |
| Progressive disease, n (%) | 12 (23) | 13 (25) | 17 (31) |
| Not evaluable / not done, n (%) | 3 (6) | 2 (4) | 11 (20) |
| DCR, % (95% CI)* | 72 (57.7–83.2) | 68 (53.7–80.1) | 46 (32.6–60.4) |

ORR and DCR by BICR were higher with sotorasib (960 mg and 240 mg) + panitumumab versus investigator's choice

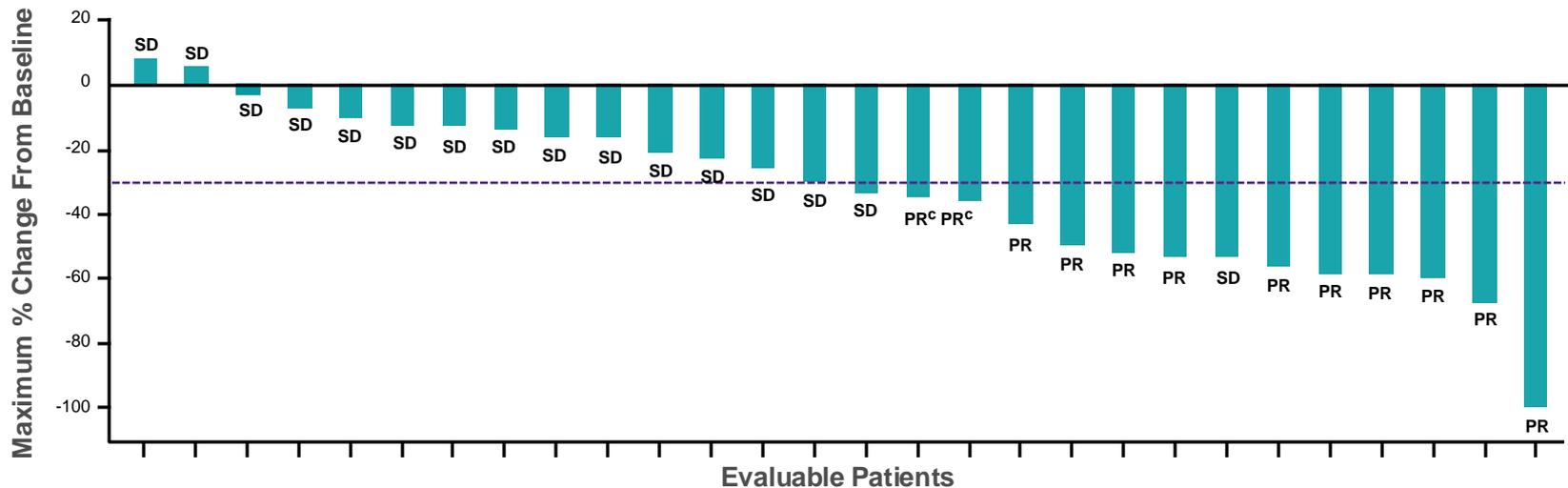
The intention-to-treat analysis set included all patients who underwent randomization.

*95% CIs were estimated using the Clopper-Pearson method. BICR, blinded independent central review; DCR, disease control rate; ORR, objective response rate

†Two patients (4%) in the 240 mg arm and 1 patient (2%) in the investigator's choice arm had non-complete response/non-progressive disease; these patients had BICR assessed non-target disease only

Adagrasib + Cetuximab in Patients With Advanced CRC: Best Overall Response

Best Tumor Change From Baseline (n=28)^{a,b}

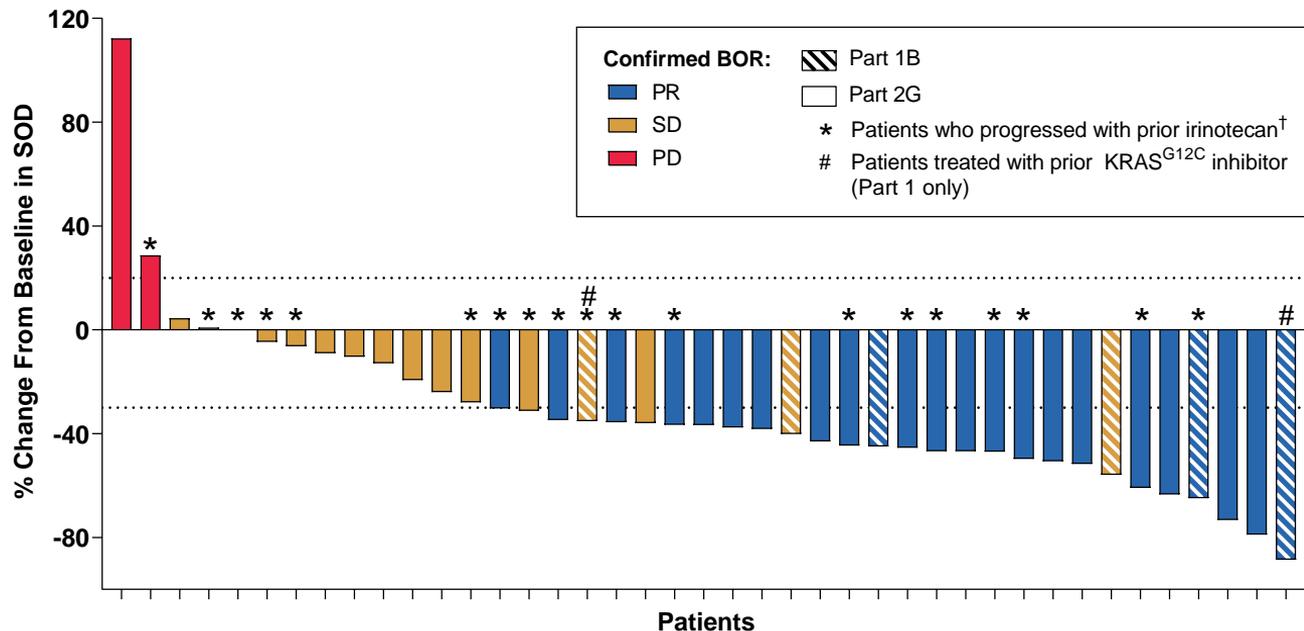


- Response rate was 43% (12/28), including 2 unconfirmed PRs
- SD was observed in 57% (16/28) of patients
- Clinical benefit (DCR) was observed in 100% (28/28) of patients
- No apparent association between response rate and molecular status was shown in an exploratory analysis^e

^aAll results are based on investigator assessments. ^b Evaluable population (n=28) excludes 4 patients who withdrew consent prior to the first scan. ^cAt the time of the 9 July 2021 data cutoff, 2 patients had uPRs.

^eMolecular status (BRAF V600E mutation, MSI-H or dMMR, EGFR amplification, TP53 mutation, PIK3CA mutation) includes patients with conclusively evaluable test results.
Data as of 9 July 2021 (median follow-up: 7 months).

Tumor Response with Sotorasib and FOLFIRI

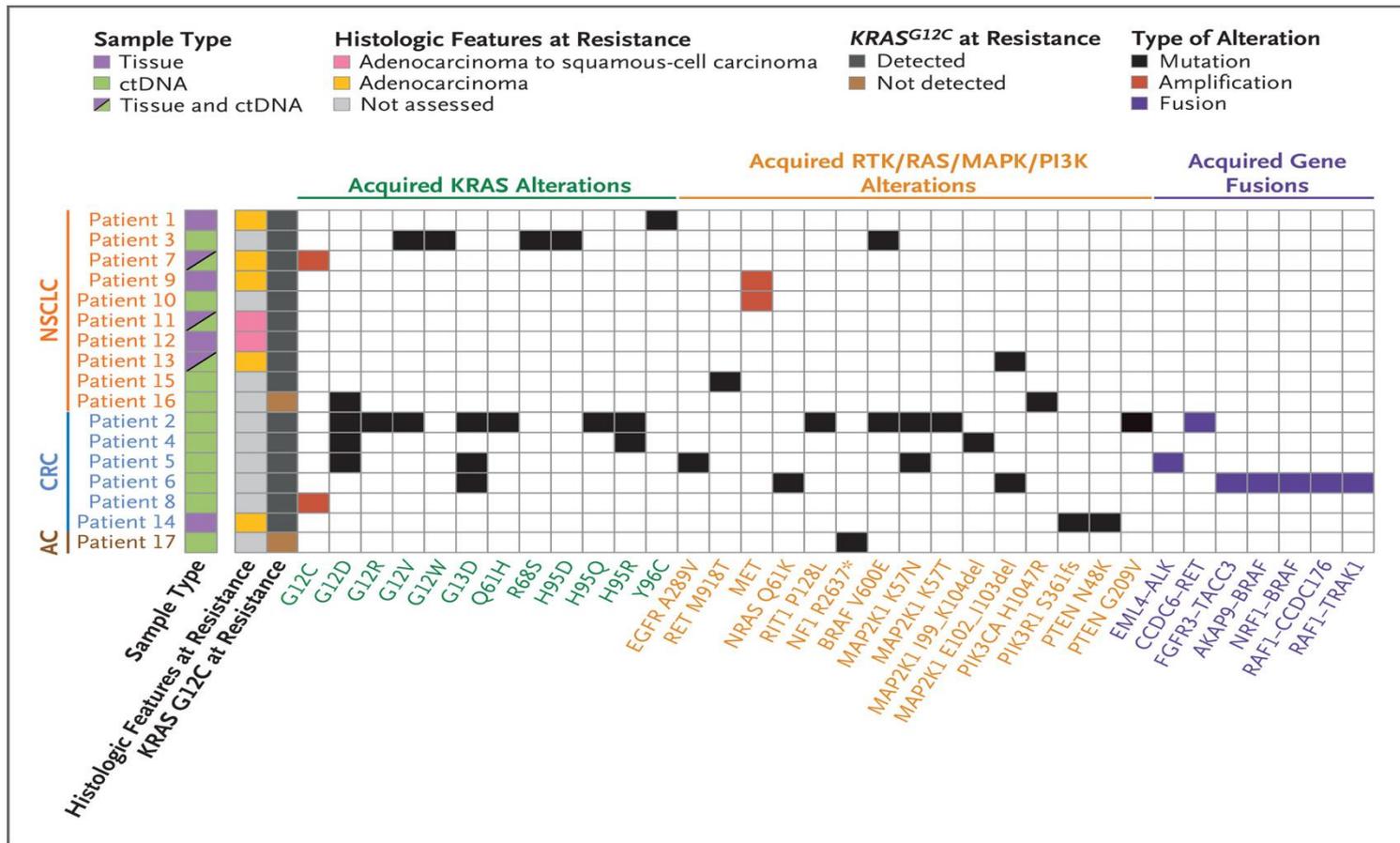


Data cutoff, April 13, 2023.

[†]Patients whose disease progressed on prior irinotecan include those with clinical or radiographic progression.

[‡]42 patients enrolled at least 7 weeks before analysis cutoff were included for response summary; 1 patient with no post-baseline scan is not shown in figure but is included in the denominator.

- **Reduction in RECIST target lesions was observed in 86% of patients[‡]**



Take Home Points:

- KRAS G12C is present in approximately 3% of all patients with mCRC
- Emerging data with G12C inhibitors + anti EGFR antibodies show significant response rates and promising progression-free survival
- Promising results seen with pan ras and pankras inhibitors, and the field is becoming increasingly crowded
- Combinations are well-tolerated, but dermatologic toxicity is seen in over half the patients treated
- Early data with chemotherapy (FOLFIRI) show impressive response rates



pMMR/MSS
(or ineligible for
or progression
on checkpoint
inhibitor
immunotherapy)

CONTINUUM OF CARE - SYSTEMIC THERAPY FOR ADVANCED OR METASTATIC DISEASE^{a,b,n}

SUBSEQUENT THERAPY^{c,o,p}

Previous
oxaliplatin-
based therapy
without
irinotecan

FOLFIRI^h or irinotecan^h
or
FOLFIRI^h + (bevacizumab^{e,q} [preferred]
or ziv-aflibercept^{q,t} or ramucirumab^{q,t})
or
Irinotecan^h + (bevacizumab^{e,q} [preferred]
or ziv-aflibercept^{q,t} or ramucirumab^{q,t})

or

FOLFIRI^h + (cetuximab or panitumumab)^{g,s}
(*KRAS/NRAS/BRAF* WT and left-sided tumors
only)^f

or

Cetuximab or panitumumab^{g,s}
(*KRAS/NRAS/BRAF* WT and left-sided tumors
only)^f ± irinotecan^h

or

Encorafenib + (cetuximab or panitumumab)^t
(*BRAF* V600E mutation positive)^f

or

(Trastuzumab^k + [pertuzumab or lapatinib or
tucatinib])^l
or fam-trastuzumab deruxtecan-nxki^u
(*HER2*-amplified and *RAS* and *BRAF* WT)^f

or

(Sotorasib or adagrasib)^{bb} + (cetuximab or
panitumumab) (*KRAS* G12C mutation
positive)^f

See Subsequent Therapy ←

Cetuximab or panitumumab^{g,s}
(*KRAS/NRAS/BRAF* WT and left-sided
tumors only)^f ± irinotecan^h

or

Regorafenib^v

or

Trifluridine + tipiracil ± bevacizumab^{e,v}
(bevacizumab combo preferred)

or

(Trastuzumab^k +
[pertuzumab or lapatinib or tucatinib])^l or
fam-trastuzumab deruxtecan-nxki^u (*HER2*-
amplified and *RAS* and *BRAF* WT)^f

or

(Sotorasib or adagrasib)^{bb} + (cetuximab
or panitumumab) (*KRAS* G12C mutation
positive)^f

See Subsequent Therapy ←

or

Regorafenib^v

or

Trifluridine + tipiracil ± bevacizumab^{e,v}
(bevacizumab combo preferred)

or

(Trastuzumab^k + [pertuzumab
or lapatinib or tucatinib])^l or fam-
trastuzumab deruxtecan-nxki^u (*HER2*-
amplified and *RAS* and *BRAF* WT)^f

or

(Sotorasib or adagrasib)^{bb} + (cetuximab
or panitumumab) (*KRAS* G12C mutation
positive)^f

See Subsequent Therapy ←

Regorafenib^v
or
Trifluridine + tipiracil
± bevacizumab^{e,v}
(bevacizumab combo
preferred)

↓

Regorafenib^{v,w}
or
Trifluridine + tipiracil^w
± bevacizumab^{e,v}
(bevacizumab combo
preferred)
or
Best supportive care
[NCCN Guidelines for
Palliative Care](#)

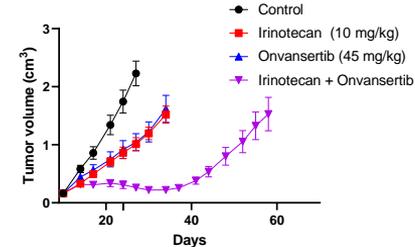
Footnotes

NCCN Colon Cancer Update 2023

Onvansertib with FOLFIRI shows promising efficacy

Rationale: Synergy in combination with irinotecan

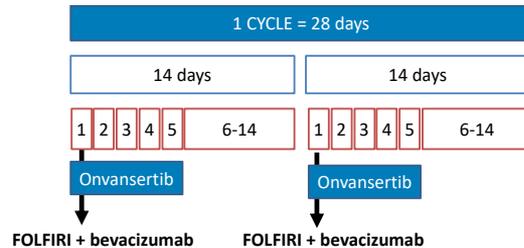
- ▶ In a KRAS mutant CRC mouse model, the combination of onvansertib and irinotecan significantly reduced tumor growth compared with either drug alone⁵



Study Design: Phase 1b/2 open-label

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| | All Doses | RP2D |
|-------------------------------------|-------------|-------------|
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| Disease Control Rate (CR + PR + SD) | 92% (44/48) | 94% (33/35) |
| Durability | | |
| Median Duration of Response | 11.7 months | 12.5 months |

* Radiographic response determined per RECIST 1.1. Waterfall plot and table reflect interim data as of July 25, 2022 from an ongoing trial and unlocked database

New Updates on Targeting Her2

1. Tucanitib (new kid on the block)

Key Clinical Trials in *HER2+* mCRC

| Trial | Regimen | N | ORR, % | Median PFS, mo | Median OS, mo |
|--|---------------------------------------|-------------|------------|----------------|------------------|
| HERACLES-A ¹ | Trastuzumab + lapatinib ^a | 27 | 30 (14-50) | 4.8 (3.7-7.4) | 10.6 (7.6-15.6) |
| MyPathway (KRASwt subgroup) ² | Trastuzumab + pertuzumab ^a | 43 | 40 (25-56) | 5.3 (2.7-6.1) | 14 (8-NE) |
| TRIUMPH ³ | Trastuzumab + pertuzumab ^a | 17 (tissue) | 35 (14-62) | 4 (1.4-5.6) | — |
| TAPUR ⁴ (no RAS data) | Trastuzumab + pertuzumab ^a | 28 | 25 (11-45) | 4 (2.6-6.3) | 25 (6-NE) |
| MOUNTAINEER ⁵ (Cohorts A + B) | Trastuzumab + tucatinib | 86 | 38 (28-39) | 8.2 (4.2-10.3) | 24.1 (20.3-36.7) |
| DESTINY-CRC01 ^{6,b} (Cohort A) | T-DXd | 54 | 45 (32-60) | 6.9 (4.1-8.7) | 15.5 (8.8-20.8) |
| HERACLES-B ^{7,c} | T-DM1 + pertuzumab | 30 | 10 (0-28) | 4.8 (3.6-5.8) | — |

^a In NCCN guidelines. ^b ORR in subgroup with prior HER2 rx 43.8% (19.8-70.1); without prior HER2 rx 45.9% (29.5-63.1). ^c Did not meet primary endpoint. T-DM1 had 0% response rate in MATCH Arm Q⁸ and MSKCC Basket Trial.⁹

1. Sartore-Bianchi A et al. *Lancet Oncol.* 2016;17:738-746. 2. Meric-Bernstam F, et al. *Lancet Oncol.* 2019;20:518-530. 3. Nakamura Y, et al. ESMO 2019. Abstract 1057. 4. Gupta R, et al. ASCO GI 2020. Abstract 132. 5. Strickler J, et al. ESMO GI 2022. Abstract LBA 2. 6. Yoshino T, et al. Nat Com 2023 in press.

7. Sartore-Bianchi A. ESMO 2019. Abstract 3857. 8. Jhaveri KL, et al. *Ann Oncol.* 2019;30:1821-1830. 9. Li BT, et al. *J Clin Oncol.* 2018;36:2532-2537.

T-DXd in Patients with HER2-Overexpressing/Amplified (HER2+) Metastatic Colorectal Cancer (mCRC): Primary Results from the Multicenter, Randomized, Phase 2 DESTINY-CRC02 Study

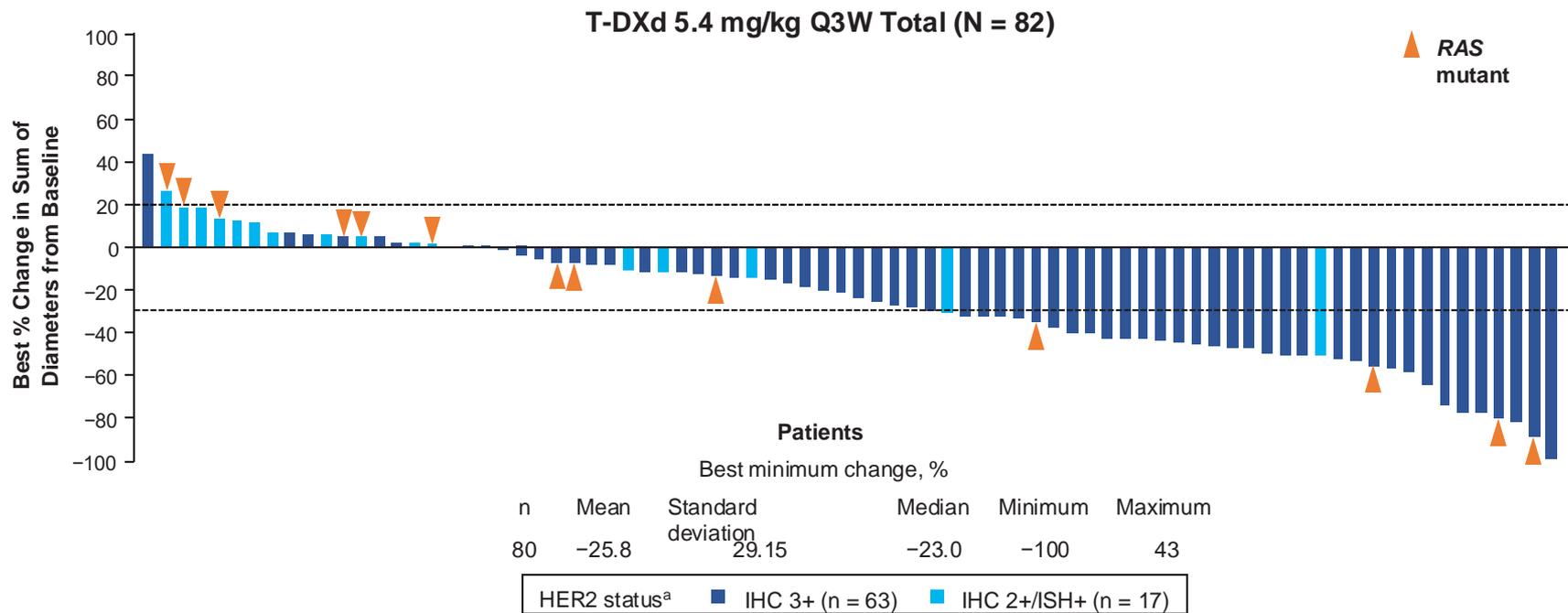
Kanwal Raghav

The University of Texas MD Anderson Cancer Center, Houston, TX, USA

June 4, 2023

Additional authors: Salvatore Siena, Atsuo Takashima, Takeshi Kato, Marc Van Den Eynde, Maria Di Bartolomeo, Yoshito Komatsu, Hisato Kawakami, Marc Peeters, Thierry Andre, Sara Lonardi, Kensei Yamaguchi, Jeanne Tie, Christina Gravalos Castro, John Strickler, Daniel Barrios, Qi Yan, Takahiro Kamio, Kojiro Kobayashi, Takayuki Yoshino

Best Percentage Change in Sum of Diameters by BICR for T-DXd 5.4 mg/kg

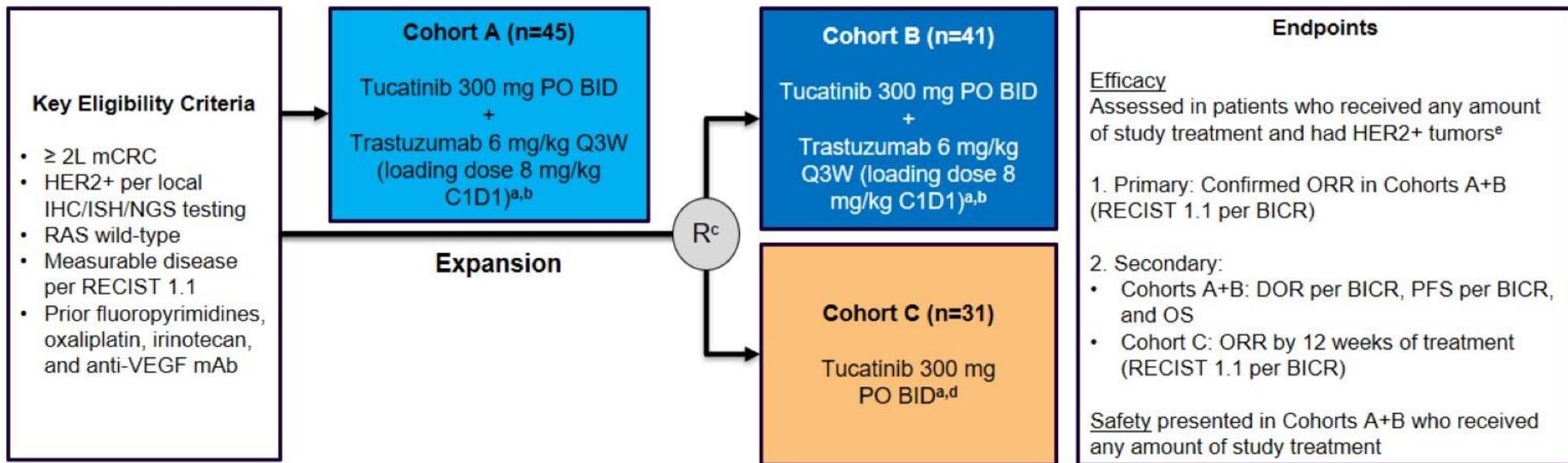


BICR, blinded independent central review; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; Q3W, every 3 weeks; RAS, rat sarcoma; T-DXd, trastuzumab deruxtecan.

Only patients with measurable disease at baseline and at least one postbaseline tumor assessment were included in the waterfall graphs.

^aHER2 status was assessed by central laboratory.

MOUNTAINEER: Global, Open-Label, Phase 2 Trial



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)

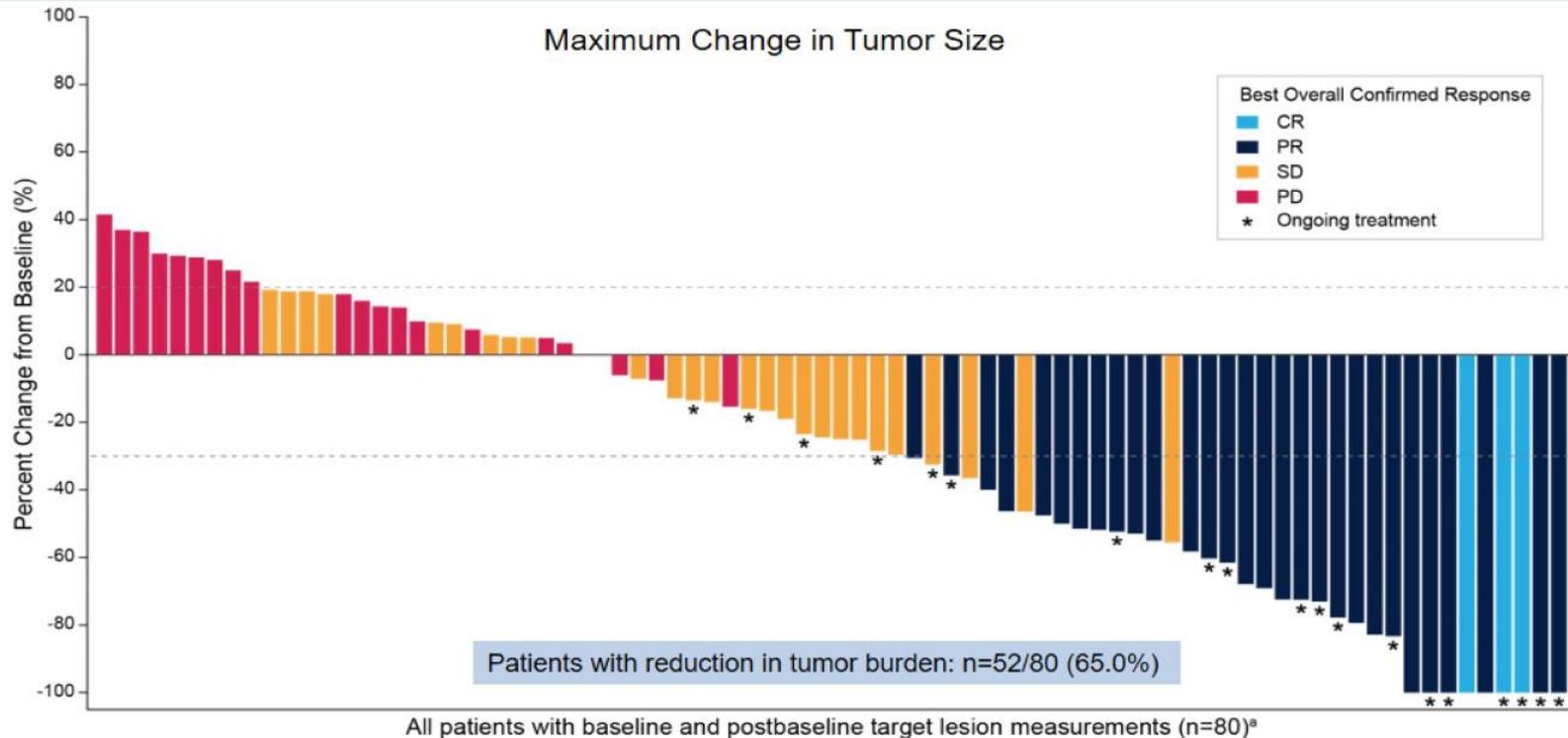
Data cut-off for current analysis, March 28, 2022

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.

<https://clinicaltrials.gov/ct2/show/NCT03043313>

Tucatinib + Trastuzumab: Change in Tumor Size

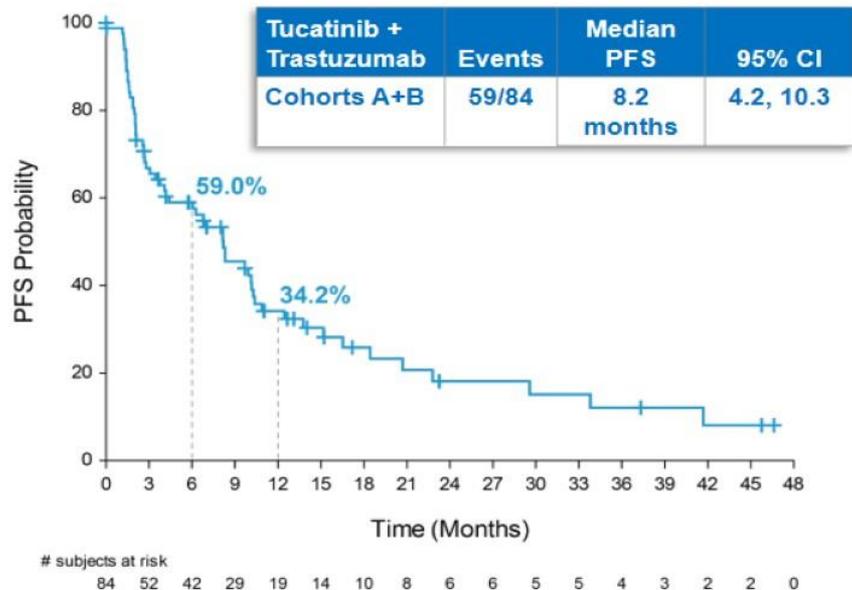


^a Four patients who did not have baseline and/or post-baseline target lesion measurements are excluded
CR, complete response; PD, progressive disease; PR, partial response; SD, stable disease.
Data cutoff: 28 Mar 2022

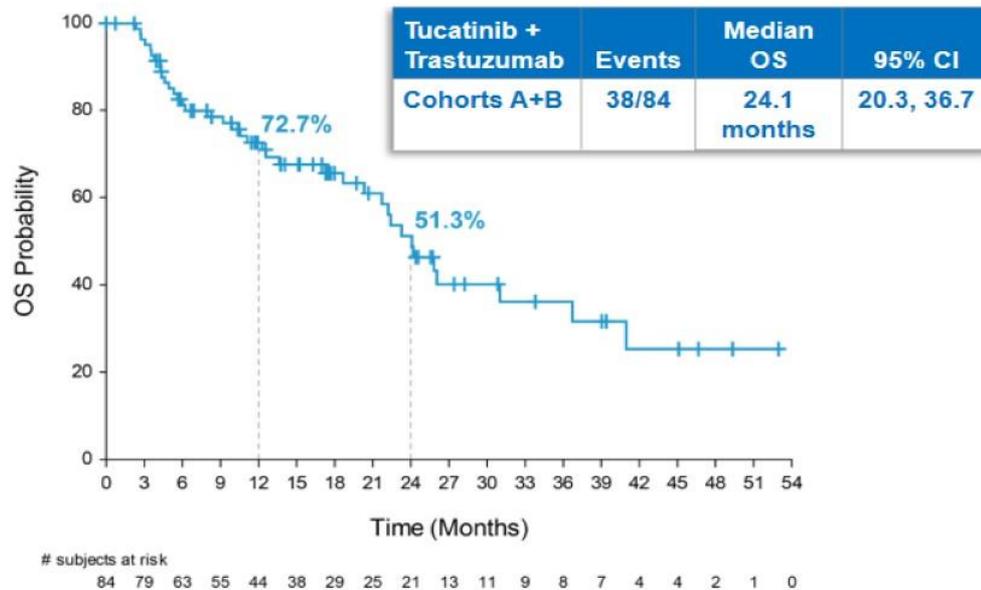
FOR PERSONAL REFERENCE ONLY, NOT TO BE SHARED OR PRESENTED

Tucatinib + Trastuzumab: PFS and OS

Progression-free Survival per BICR



Overall Survival



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

BICR, blinded independent central review; IQR, interquartile range; OS, overall survival; PFS, progressive-free survival.

Data cutoff: 28 Mar 2022

FOR PERSONAL REFERENCE ONLY, NOT TO BE SHARED OR PRESENTED

Anti-HER2 Therapies: FDA approved for HER2+ mCRC

FDA grants accelerated approval to tucatinib with trastuzumab for colorectal cancer

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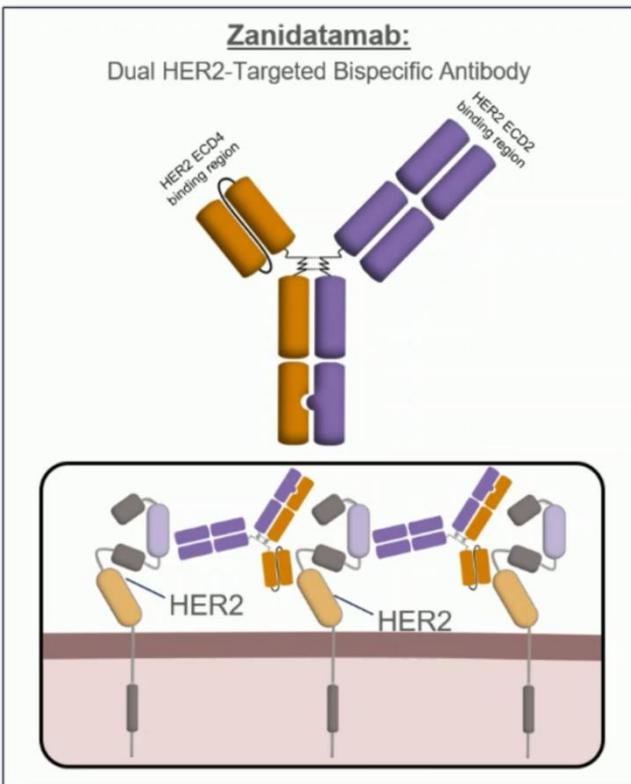
On January 19, 2023, the Food and Drug Administration (FDA) granted accelerated approval to tucatinib ([REDACTED]) in combination with trastuzumab for the treatment of HER2-positive unresectable or metastatic colorectal cancer that has progressed following fluoropyrimidine-, oxaliplatin-, and irinotecan-based chemotherapy.

FDA grants accelerated approval to fam-trastuzumab deruxtecan-nxki for unresectable or metastatic HER2-positive solid tumors

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On April 5, 2024, the Food and Drug Administration granted accelerated approval to fam-trastuzumab deruxtecan-nxki ([REDACTED] , Inc.) for adult patients with unresectable or metastatic HER2-positive (IHC3+) solid tumors who have received prior systemic treatment and have no satisfactory alternative treatment options.

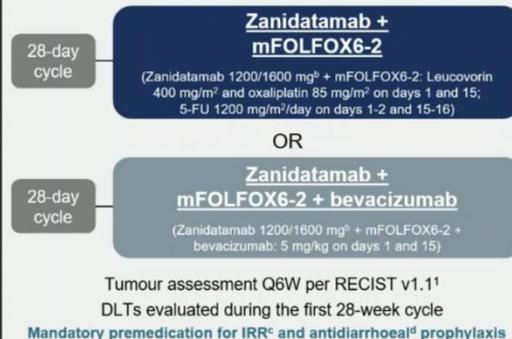
Zanidatamab – bispecific antibody



Key eligibility criteria:

- Unresectable, locally advanced, recurrent or metastatic CRC
- HER2-expressing/amplified tumours (IHC 3+; or *HER2* gene amplified) based upon central assessment
- Extended *RAS*- and *BRAF*-wildtype based on local or central assessment
- ECOG PS ≤1
- No prior HER2-targeted agents
- No prior systemic therapy for metastatic disease
- ✓ One prior cycle of 5-FU based chemotherapy for was permitted

Physician's choice of chemotherapy regimen (≥6 cycles):^a



Primary endpoints (Part 1):

- DLTs
- AEs and SAEs
- Laboratory abnormalities
- Dose reductions

Secondary endpoints (Part 1):

- Objective response rate
- Disease control rate
- Duration of response
- Progression-free survival

CRC patients treated (Part 1)
N=13

DLT evaluable^e
n=12

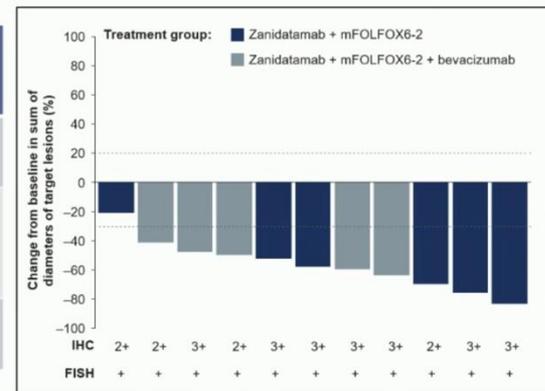
Response evaluable
n=11

Data cut-off: 31 October 2023

ClinicalTrials.gov: NCT03929666

| | Zanidatamab + mFOLFOX6-2 (n=6) | Zanidatamab + mFOLFOX6-2 + bevacizumab (n=5) | Total (N=11) |
|------------------------|--------------------------------|--|--------------|
| cORR | | | |
| n (%) | 5 (83.3) | 5 (100) | 10 (90.9) |
| 95% CI | 35.9, 99.6 | 47.8, 100 | 58.7, 99.8 |
| cBOR, n (%) | | | |
| CR | 0 (0) | 0 (0) | 0 (0) |
| PR | 5 (83.3) | 5 (100) | 10 (90.9) |
| SD | 1 (16.7) | 0 (0) | 1 (9.1) |
| PD | 0 (0) | 0 (0) | 0 (0) |
| DCR^b | | | |
| n (%) | 6 (100) | 5 (100) | 11 (100) |
| 95% CI | 54.1, 100 | 47.8, 100 | 71.5, 100 |

Median (range) duration of response:
Not reached (2.9+–16.7+) months



How I treat HER2+ MSS 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

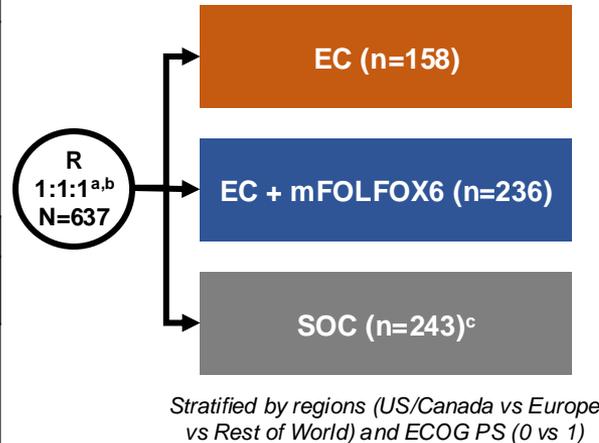
TARGETING BRAF V600E



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 |
| 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 <i>RAS</i> mutation |



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

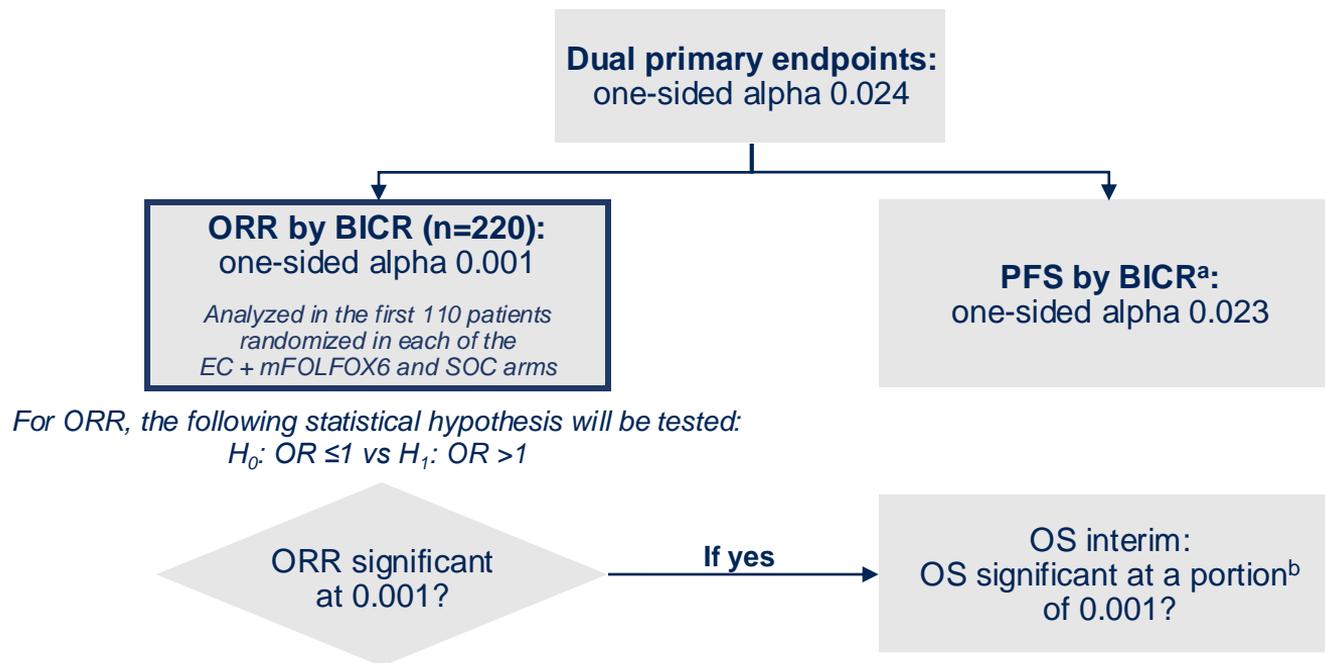
Key secondary endpoint:
OS (EC + mFOLFOX6 vs SOC)

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 ± 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: Statistical Analysis



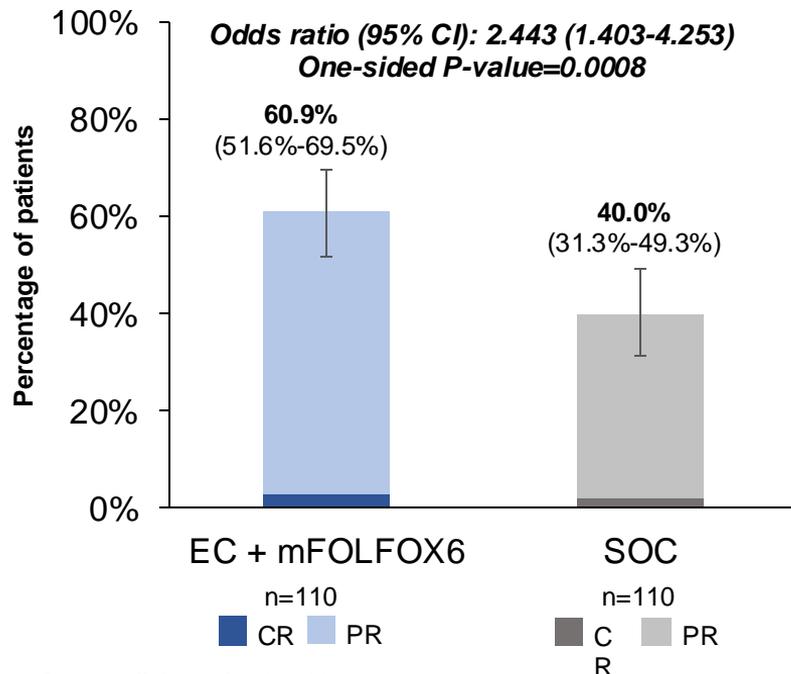
^aPFS by BICR in all randomized patients will be analyzed once the required number of events has been observed.

^bFollowing a prespecified hierarchical testing procedure to control the family-wise type I error rate, based on the proportion of information fraction observed at the time of the OS interim analysis.

BICR, blinded independent central review; EC, encorafenib plus cetuximab; H_0 , null hypothesis; H_1 , alternative hypothesis; mFOLFOX6, modified fluorouracil/leucovorin/oxaliplatin; OR, odds ratio for objective response of EC+mFOLFOX6 vs SOC; SOC, standard of care.

Overview of Response by BICR

Confirmed ORR by BICR



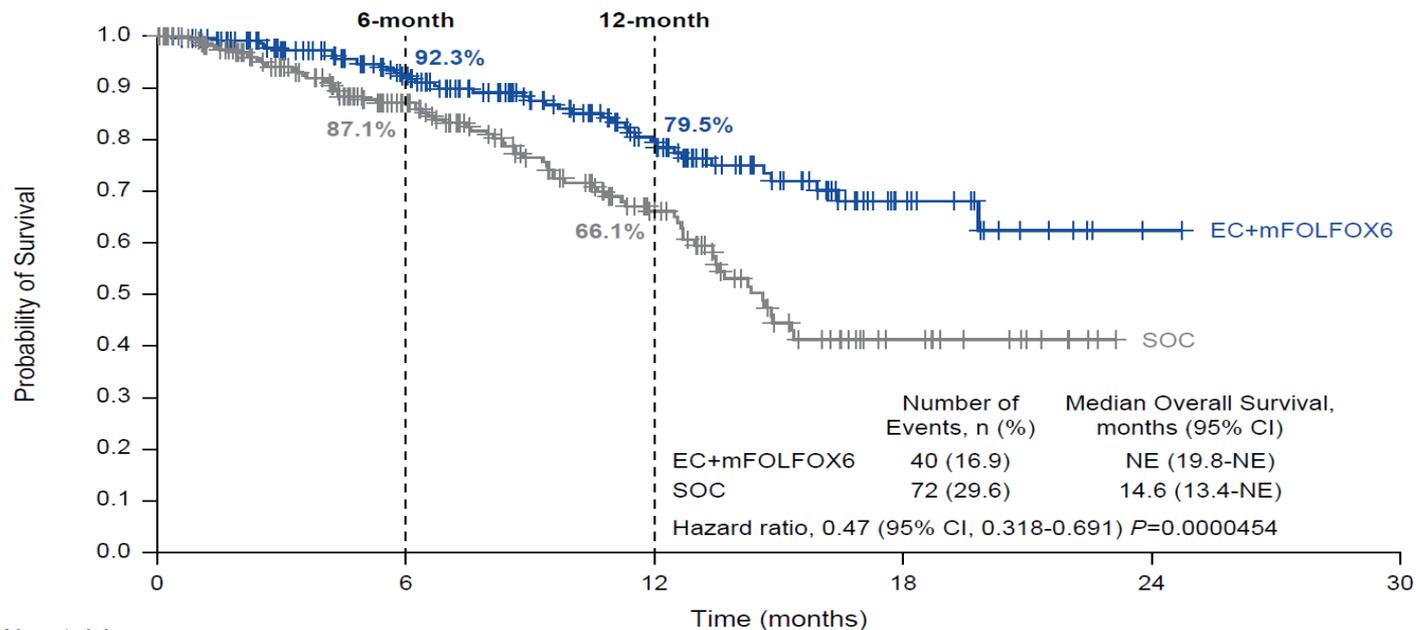
Confirmed Best Overall Response, TTR, and DOR by BICR

| | EC + mFOLFOX6 n=110 | SOC n=110 |
|---|------------------------|-----------------|
| Confirmed best overall response, n (%) | | |
| CR | 3 (2.7) | 2 (1.8) |
| PR | 64 (58.2) | 42 (38.2) |
| SD | 31 (28.2) | 34 (30.9) |
| Non-CR/non-PD | 3 (2.7) | 4 (3.6) |
| PD | 3 (2.7) | 9 (8.2) |
| NE | 6 (5.5) | 19 (17.3) |
| | n=67 | n=44 |
| TTR, median (range), weeks | 7.1 (5.7-53.7) | 7.3 (5.4-48.0) |
| Estimated DOR, median (range), months | 13.9 (8.5-NE) | 11.1 (6.7-12.7) |
| Patients with a DOR of ≥6 months, n (%) | 46 (68.7) | 15 (34.1) |
| Patients with a DOR of ≥12 months, n (%) | 15 (22.4) | 5 (11.4) |

Data cutoff: December 22, 2023.

BICR, blinded independent central review; CR, complete response; DOR, duration of response; EC, encorafenib plus cetuximab; mFOLFOX6, modified fluorouracil/leucovorin/oxaliplatin; NE, not estimable; PD, progressive disease; PR, partial response; SD, stable disease; SOC, standard of care; TTR, time to response.

Interim Overall Survival^a



No. at risk

| | | | | | | |
|-------------|-----|-----|----|----|---|---|
| EC+mFOLFOX6 | 236 | 156 | 81 | 20 | 1 | 0 |
| SOC | 243 | 138 | 64 | 14 | 0 | 0 |

Data cutoff: December 22, 2023.

^aOS was tested following the prespecified plan with one-sided alpha of 0.00000083, 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.

Conclusions

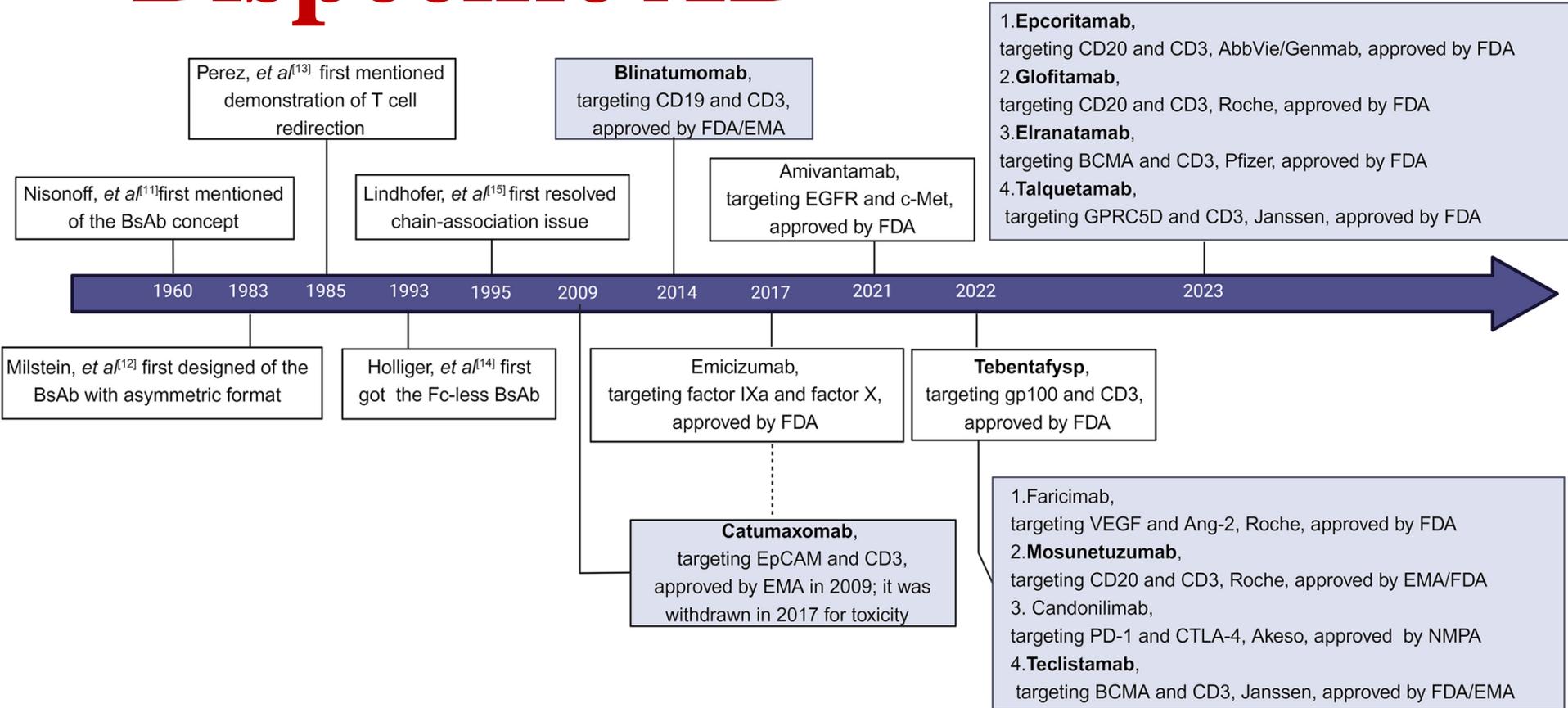
- BREAKWATER showed a statistically significant and clinically meaningful benefit in ORR by BICR, one of the dual primary endpoints, with EC + mFOLFOX6 vs SOC that was rapid and durable
 - Data showed a trend for OS improvement with EC + mFOLFOX6 vs SOC; follow-up is ongoing, with planned additional interim and final analyses
- EC + mFOLFOX6 was generally tolerable
 - There was no substantial increase in chemotherapy dose reduction or discontinuation due to AEs compared with the SOC arm
 - The most frequently reported TEAEs were consistent with those expected for each of the study drugs
- Prespecified analyses of mature PFS and OS data are planned
- The BREAKWATER study supports EC + mFOLFOX6 as a new first-line SOC for patients with BRAF V600E-mutant mCRC

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

TARGETING C-MET



Bispecific AB

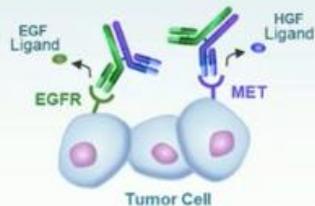


EGFR-MET Bispecific Antibody: Amivantamab

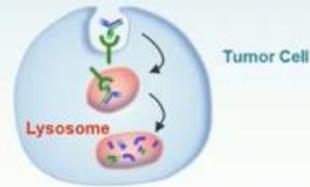
- MET alterations are associated with poor prognosis in CRC and are common mechanisms of resistance to EGFR inhibitors
- Amivantamab is a bispecific EGF receptor-directed and mesenchymal epithelial transition (MET) receptor-directed antibody
- FDA Approved in NSCLC with EGFR exon 20 insertion mutations

Amivantamab has 3 mechanisms of action:

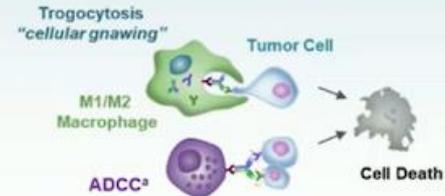
Inhibition of Ligand Binding



Receptor Degradation



Immune Cell-directing Activity



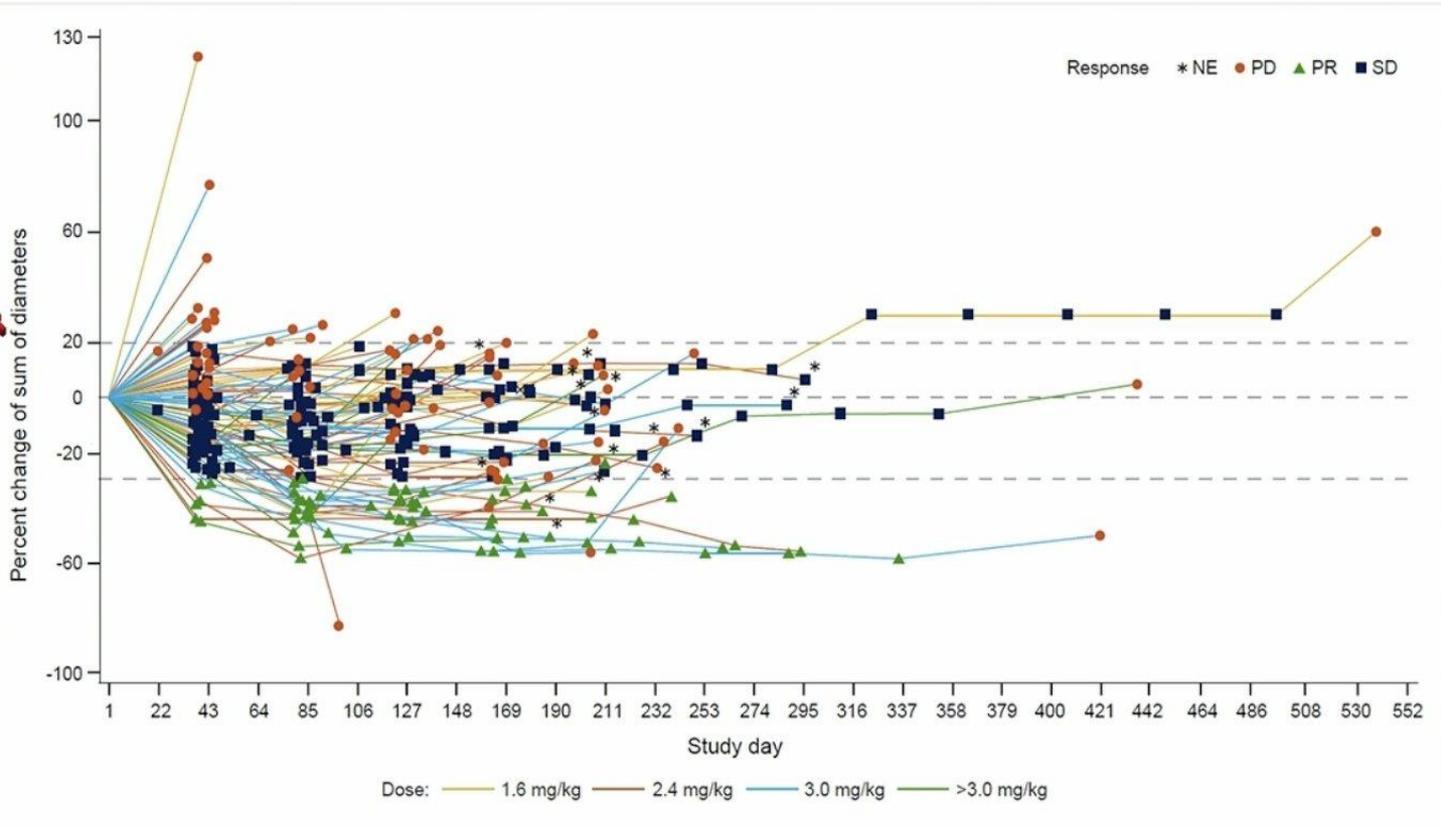
With its unique multi-targeted MOA, amivantamab plus FOLFOX or FOLFIRI may offer improved efficacy in *EGFR* inhibitor-naïve *RAS/BRAF* WT mCRC

Amivantamab: Single Agent Activity in CRC

- OrigAMI-1: Open-label phase 1b/2 study
- 93 patients with refractory mCRC
- RAS/ BRAF wild-type, HER-2 negative

| Cohort | N | RR (%) | mDOR (mo) | mPFS (mo) |
|-------------------------------|----|--------|-----------|-----------|
| Left-sided, no prior EGFR mAb | 17 | 41 | 7.5 | 5.7 |
| Left-sided, prior EGFR mAB | 54 | 24 | 7.4 | 3.75 |
| Right-sided | 18 | 6 | NE | 3.5 |

ABBV-400: Observed responses across all doses in 3L+ CRC



| Total* (N=122) | |
|-------------------------|-----------------|
| ORR, n (%) | 20 (16) |
| CBR12, n (%) | 61 (50) |
| CBR24, n (%) | 35 (29) |
| DOR, months (95% CI) | 5.5 (4.1–NE) |

*Includes 9 patients who received dose >3 mg/kg in dose escalation; The maximum tolerated dose was established as 3.0 mg/kg.

CBR12/24, clinical benefit rate at 12/24 weeks (complete response plus partial response plus stable disease); DOR, duration of response; NE, not evaluable; PD, progressive disease; PR, partial response; ORR, overall response rate; SD, stable disease.

Amivantamab: Combination with Chemo

Dose escalation identified amivantamab 1050 mg IV (1400 mg if ≥ 80 kg) weekly for the first 4 weeks, then every 2 weeks in combination with standard mFOLFOX6 or FOLFIRI dosing as the RP2D

Key Eligibility Criteria

- ECOG PS score of 0–1
- Eligible for 1L or 2L therapy
- No prior EGFRi

Cohort D: Amivantamab + mFOLFOX6
(n=20)

Cohort E: Amivantamab + FOLFIRI
(n=23)

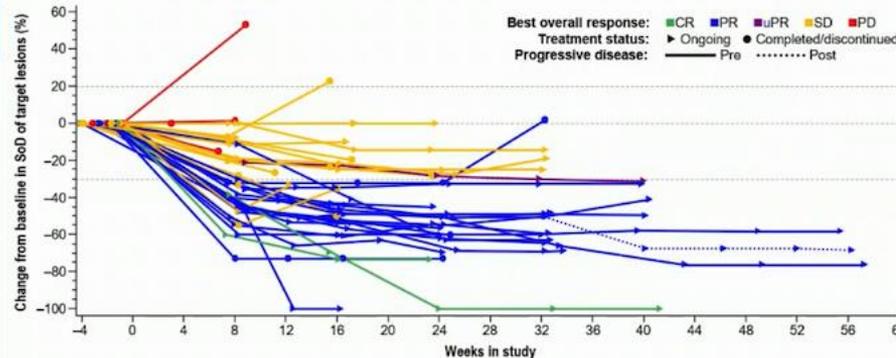
Primary Endpoint: Safety

Secondary Endpoints

- ORR
- DoR
- DCR
- PFS

| Investigator-assessed | Total (N=43) |
|--------------------------------------|-----------------------------------|
| ORR ^{a,b} | 49% (95% CI, 33–65) |
| Median DoR ^c | 7.4 months (95% CI, 5.6–NE) |
| Median time to response ^c | 8.3 weeks |
| DCR | 88% (95% CI, 75–96) |
| Median PFS | 7.5 months (95% CI, 7.4–NE) |
| Received curative intent surgery, n | 6 completed (3 more scheduled) |

Patients could undergo curative intent surgery and were censored upon procedure completion



- Median (range) follow-up was 7.3 months (1.1–14.4)
- 67% (29/43) of patients remain on treatment^d
- ORR was 64% among patients on 1L therapy and 44% among patients on 2L therapy

40% of pts in 1st Line

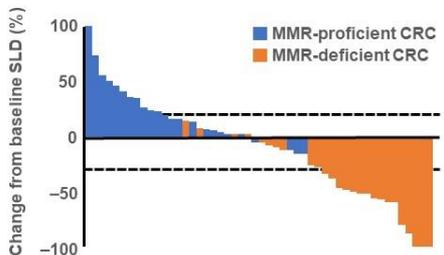
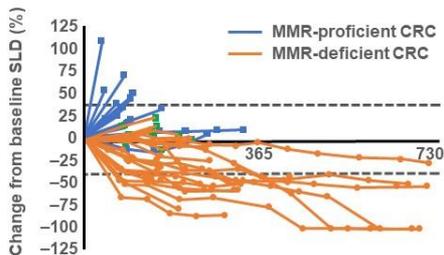
Do these data warrant phase 3 trials in CRC?

IO in MSI H

Nivo/Ipi in first line

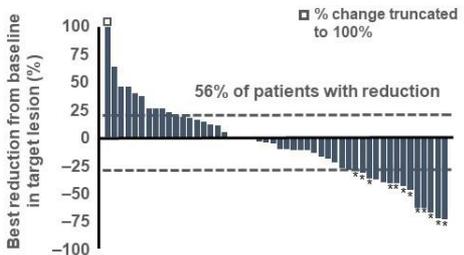
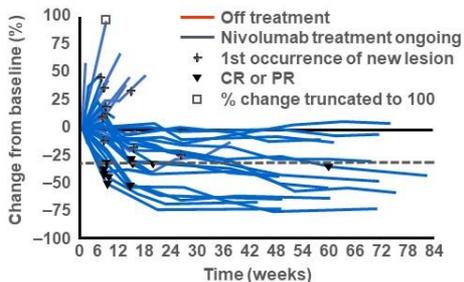
MSI-high CRCs are responsive to PD-1 inhibitors

Pembrolizumab (KEYNOTE 016, phase II)^{1,*}

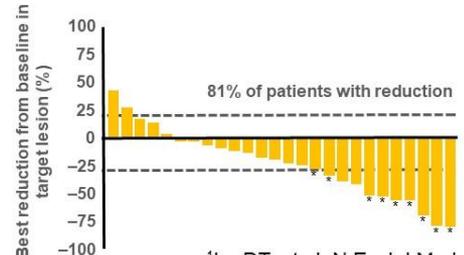
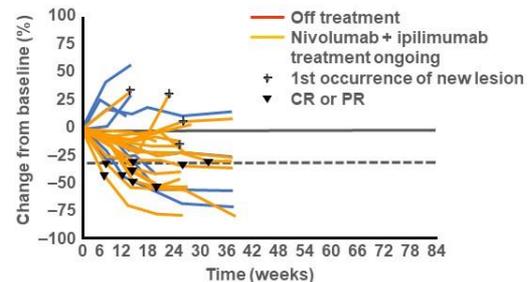


Nivolumab ± Ipilimumab (CheckMate-142, phase II)²

Nivolumab 3mg/kg



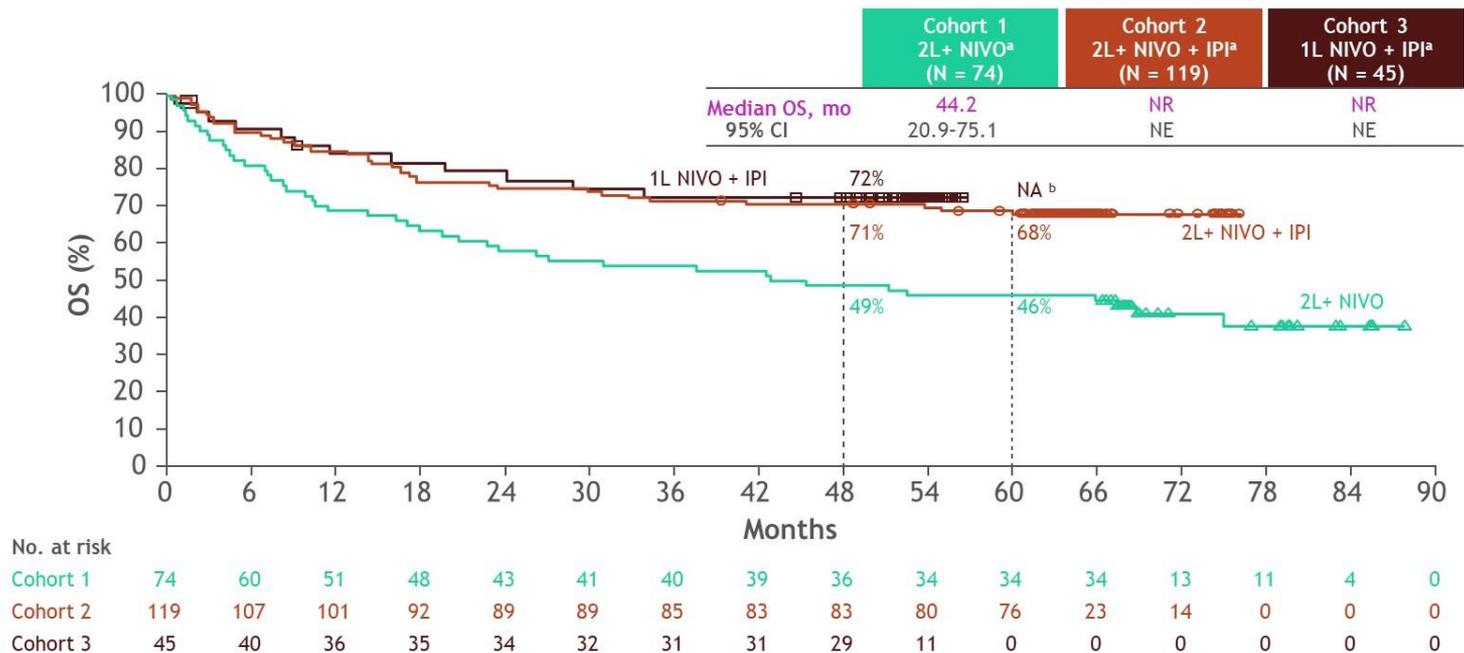
Nivolumab 3mg/kg + Ipilimumab 1mg/kg



¹Le DT, et al. N Engl J Med. 2015

²Overman MJ, et al. Lancet Oncol. 2017

Overall survival

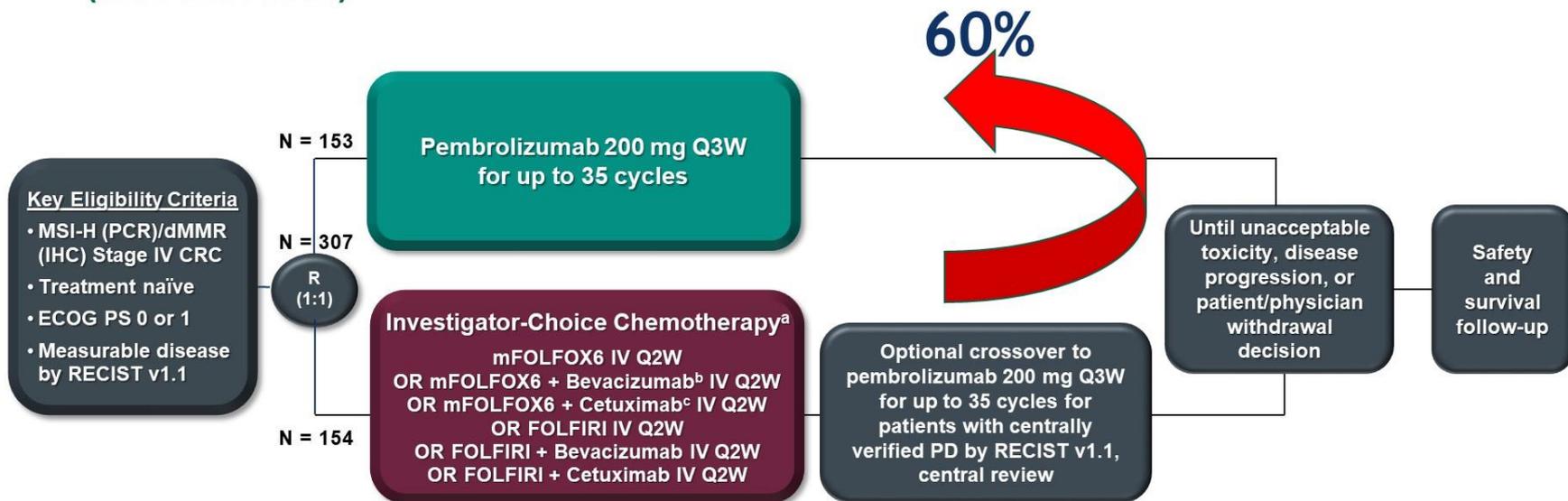


- Median OS was 44.2 months in cohort 1 and not reached in cohorts 2 and 3
 - 48-month OS rates were 49% (cohort 1), 71% (cohort 2), and 72% (cohort 3)
 - 60-month OS rates were 46% (cohort 1), 68% (cohort 2), and not available for cohort 3

^aStudy cohorts were neither randomized nor designed for a formal comparison; ^bMinimum follow-up for cohort 3 was 47.6 months.

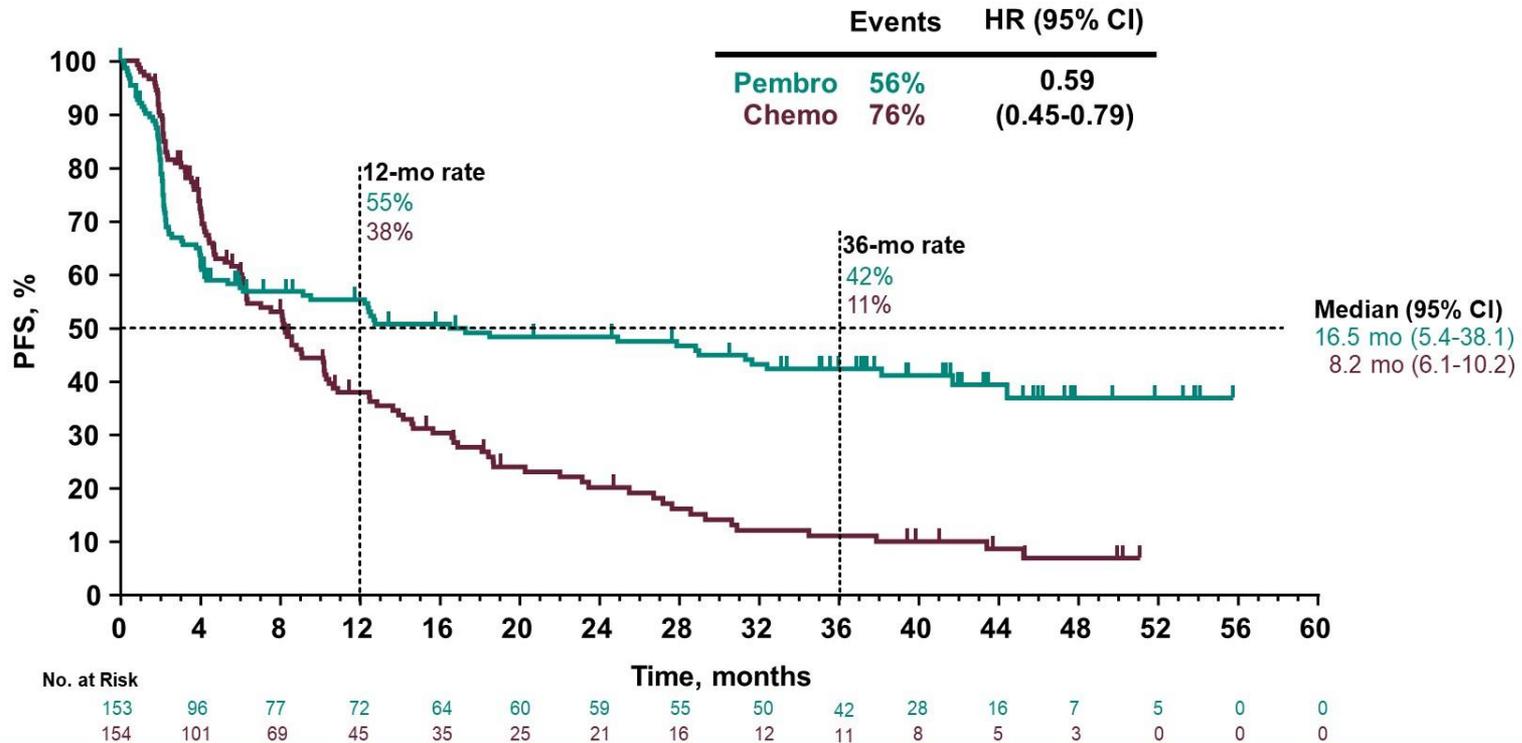
KEYNOTE-177 Study Design

(NCT02563002)

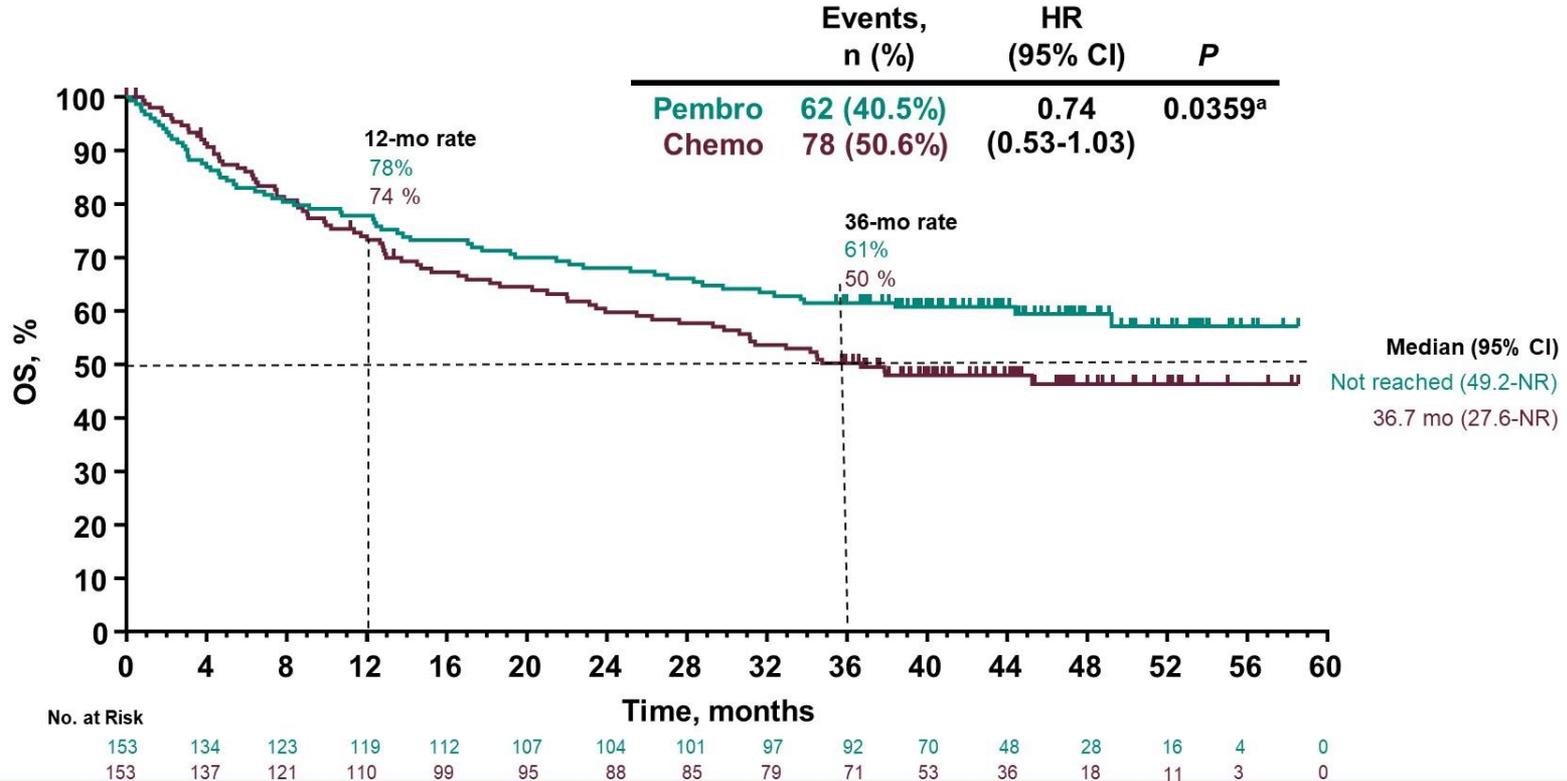


- **Dual-primary endpoints:** PFS per RECIST v1.1, BICR; OS
- **Secondary endpoints:** ORR per RECIST v1.1 by BICR, PFS2, HRQoL, safety
- **Tumor response assessed at week 9 and Q9W thereafter per RECIST v1.1 by BICR**

Progression-Free Survival



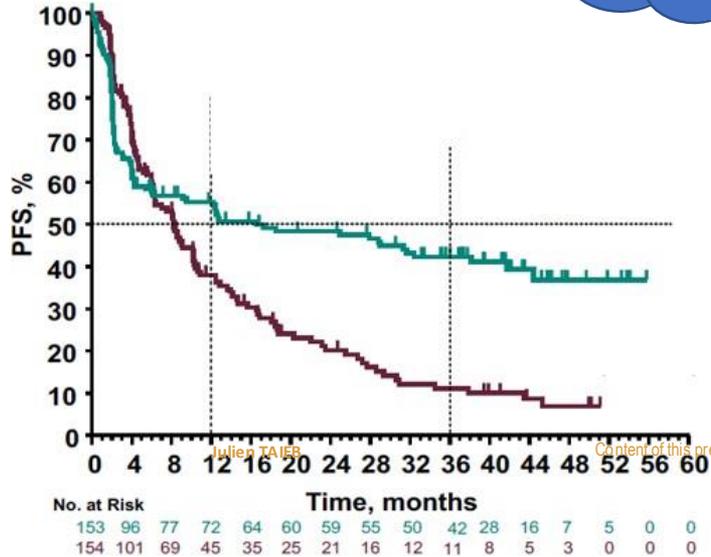
Overall Survival



Discussion

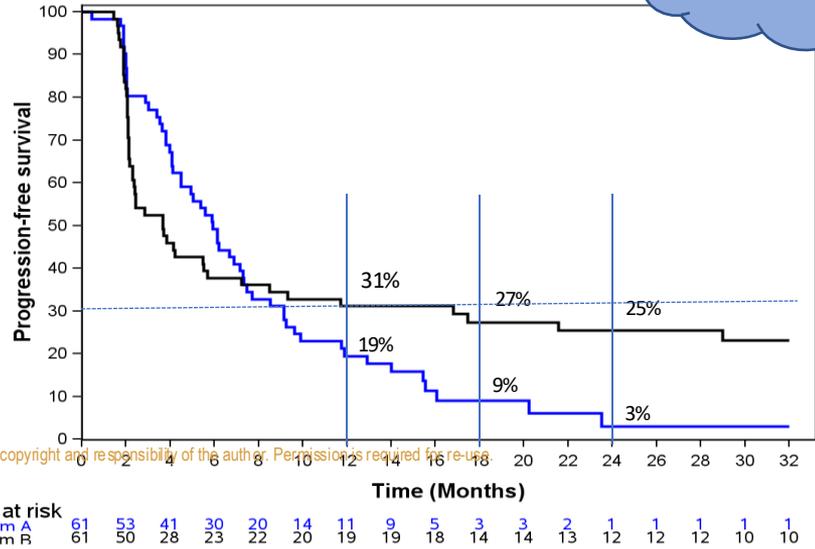
KEYNOTE 177

Anti-PD-1



PRODIGE 54-SAMCO

Anti-PD-L1

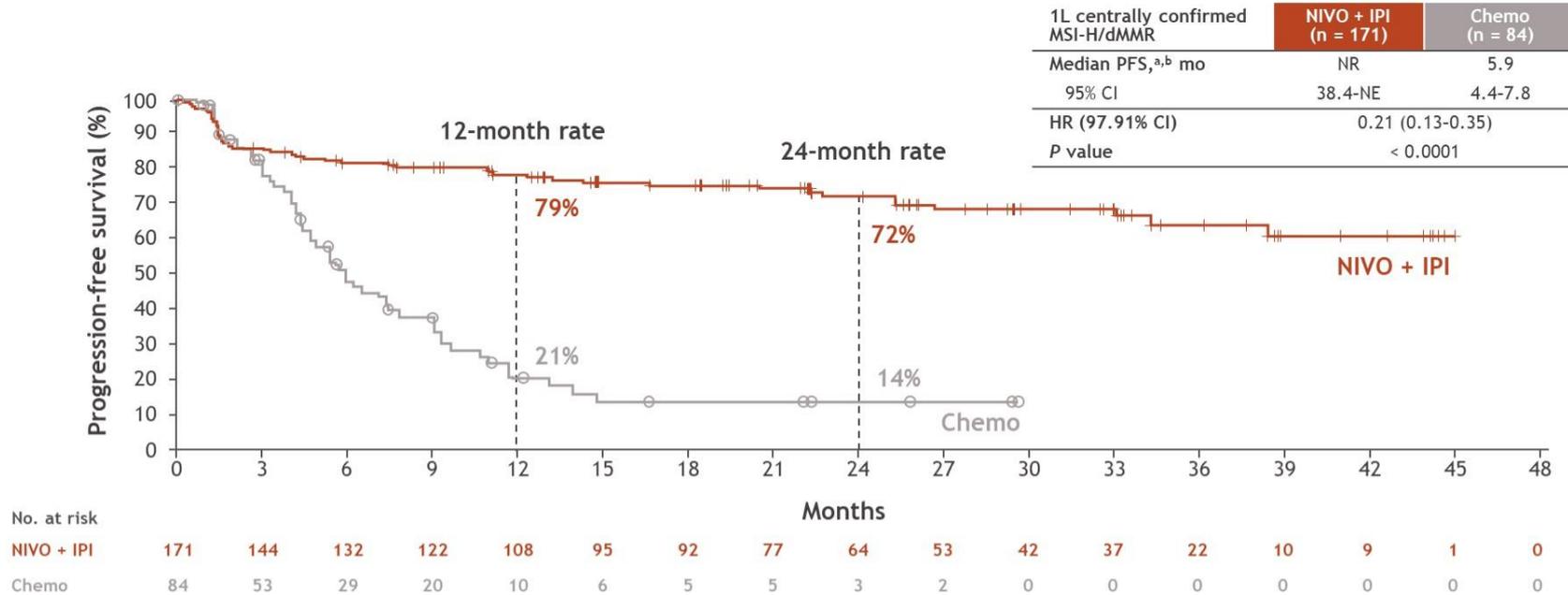


Nivolumab plus ipilimumab vs chemotherapy as first-line treatment for microsatellite instability-high/mismatch repair-deficient metastatic colorectal cancer: expanded efficacy analysis from CheckMate 8HW

Heinz-Josef Lenz,¹ Sara Lonardi,² Elena Elez Fernandez,³ Eric Van Cutsem,⁴ Lars Henrik Jensen,⁵ Jaafar Bennouna,⁶ Guillermo Ariel Mendez,⁷ Michael Schenker,⁸ Christelle de la Fouchardiere,⁹ Maria Luisa Limon Miron,¹⁰ Takayuki Yoshino,¹¹ Jin Li,¹² José Luis Manzano Mozo,¹³ Giampaolo Tortora,¹⁴ Rocio Garcia-Carbonero,¹⁵ Rohit Joshi,¹⁶ Elvis Cela,¹⁷ Tian Chen,¹⁷ Lixian Jin,¹⁷ Thierry Andre¹⁸

¹University of Southern California Norris Comprehensive Cancer Center, Los Angeles, CA; ²Istituto Oncologico Veneto IOV-IRCCS, Padua, Italy; ³Vall d'Hebron University Hospital and Institute of Oncology (VHIO), Barcelona, Spain; ⁴University Hospitals Gasthuisberg and University of Leuven (KU Leuven), Leuven, Belgium; ⁵University Hospital of Southern Denmark, Vejle Hospital, Vejle, Denmark; ⁶Centre Hospitalier Universitaire de Nantes, Nantes, France; ⁷Hospital Universitario Fundacion Favaloro, Buenos Aires, Argentina; ⁸Centrul de Oncologie Sf Nectarie, Craiova, Romania; ⁹Centre Léon Bérard, Lyon Cedex, France; ¹⁰Hospital Universitario Virgen del Rocío, Sevilla, Spain; ¹¹National Cancer Center Hospital East, Chiba, Japan; ¹²Shanghai East Hospital, Shanghai, China; ¹³Institut Català d'Oncologia, Badalona, Spain; ¹⁴Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy; ¹⁵Hospital Universitario 12 de Octubre Ima12, Complutense University of Madrid, Madrid, Spain; ¹⁶Cancer Research SA, Adelaide, Australia; ¹⁷Bristol Myers Squibb, Princeton, NJ; ¹⁸Sorbonne Université and Hôpital Saint Antoine, Assistance Publique Hôpitaux de Paris, Paris, France

Progression-free survival

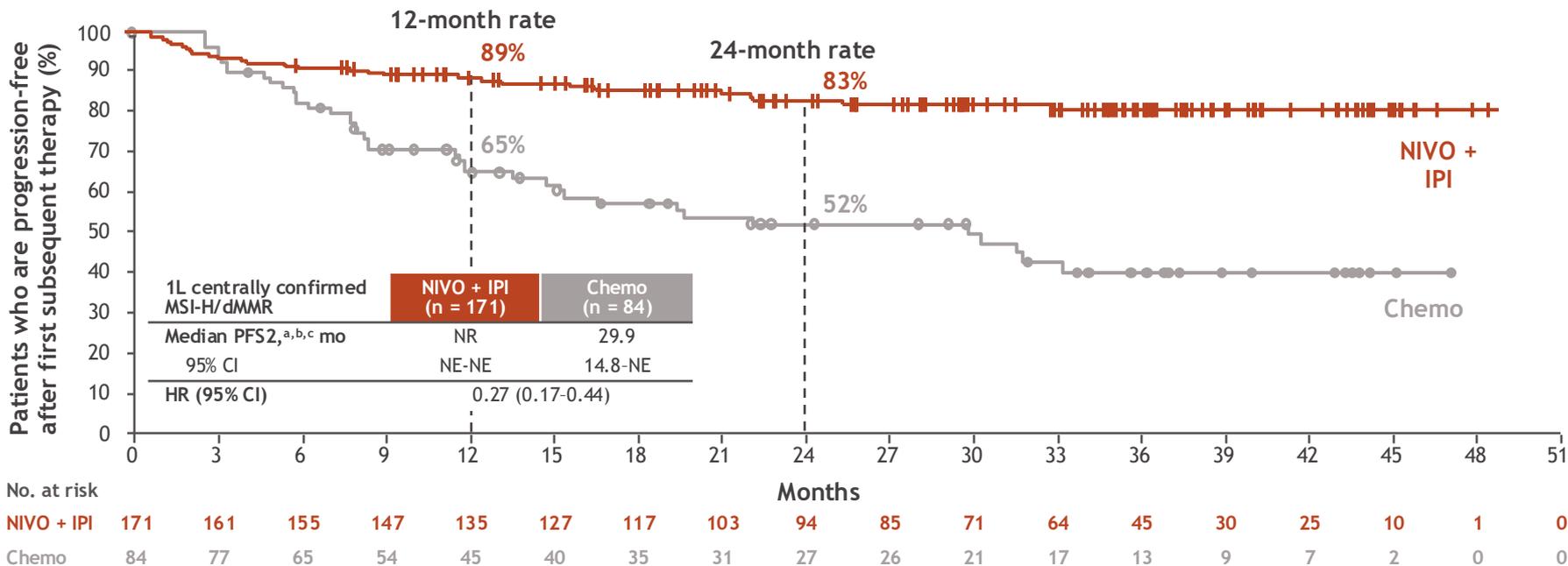


- PFS benefit with NIVO + IPI vs chemo was robust and consistent across the sensitivity analyses, including PFS by BICR in 1L all randomized patients (HR, 0.32; 95% CI, 0.23-0.46)

Lenz et al ASCO 2024

^aPer BICR. ^bMedian follow-up, 24.3 months.

PFS2: progression-free survival after subsequent therapy



- PFS2^a favored NIVO + IPI vs chemo with a 73% reduction in the risk of death or disease progression after first subsequent therapy

Lenz et al ASCO 2024

^aDefined as time from randomization to progression after subsequent systemic therapy, initiation of second subsequent systemic therapy, or death. ^bPer investigator. ^cMedian follow-up in patients with centrally confirmed MSI-H/dMMR, 31.6 months.

PFS benefits across all subgroup

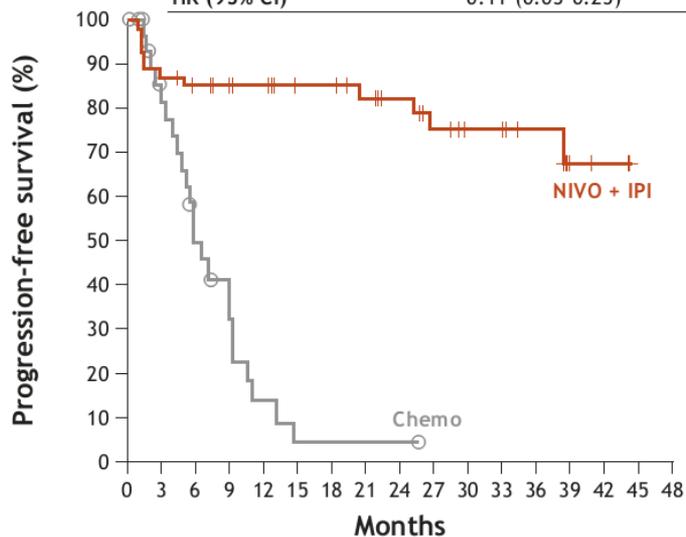


^aPer BICR.

PFS by Liver mets

Liver metastases: Yes

| 1L centrally confirmed MSI-H/dMMR | NIVO + IPI (n = 55) | Chemo (n = 32) |
|--------------------------------------|------------------------|-------------------|
| Median PFS, ^{a,b} mo | NR | 5.9 |
| 95% CI | 38.4-NE | 4.3-9.2 |
| HR (95% CI) | 0.11 (0.05-0.25) | |

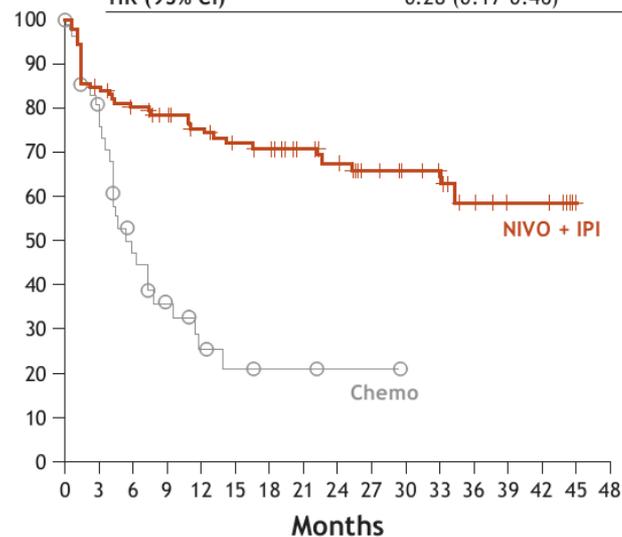


No. at risk

| | | | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|
| NIVO + IPI | 55 | 49 | 44 | 41 | 38 | 33 | 33 | 28 | 24 | 20 | 17 | 15 | 10 | 3 | 2 | 0 | 0 |
| Chemo | 32 | 22 | 12 | 9 | 3 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Liver metastases: No

| 1L centrally confirmed MSI-H/dMMR | NIVO + IPI (n = 114) | Chemo (n = 52) |
|--------------------------------------|-------------------------|-------------------|
| Median PFS, ^{a,b} mo | NR | 5.4 |
| 95% CI | 34.3-NE | 4.2-9.6 |
| HR (95% CI) | 0.28 (0.17-0.46) | |

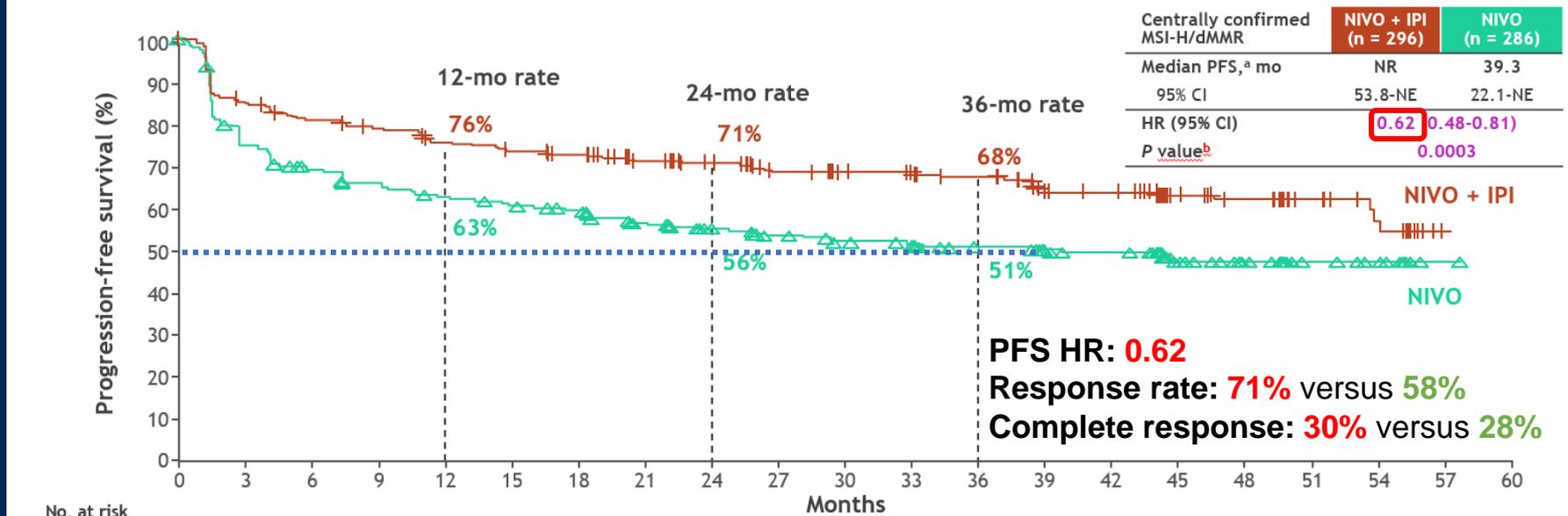


| | | | | | | | | | | | | | | | | | |
|------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|
| NIVO + IPI | 114 | 95 | 88 | 81 | 70 | 62 | 59 | 49 | 40 | 33 | 25 | 22 | 12 | 7 | 7 | 1 | 0 |
| Chemo | 52 | 31 | 17 | 11 | 7 | 5 | 4 | 4 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

^aMedian follow-up in patients with centrally confirmed MSI-H/dMMR, 31.6 months. ^bPer BICR.

ABSTRACT LBA143: nivolumab/ipilimumab vs nivolumab for MSI-H/dMMR mCRC (Andre)

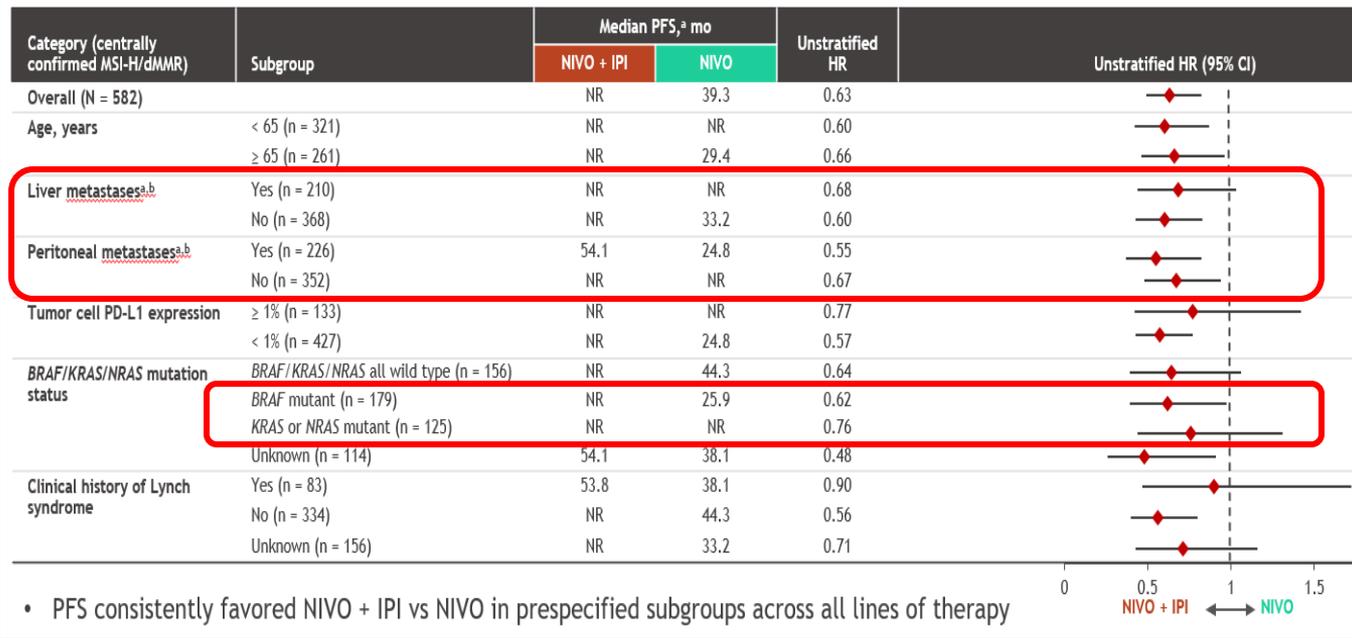
Progression-free survival



Note: PFS curves separate early and flatten nicely

ABSTRACT LBA143: nivolumab/ipilimumab vs nivolumab for MSI-H/dMMR mCRC (Andre)

Progression-free survival subgroup analysis



- PFS consistently favored NIVO + IPI vs NIVO in prespecified subgroups across all lines of therapy

Benefit seen across subgroups:

+/- Liver metastases*
 +/- Peritoneal metastases
 +/- BRAF mutation
 +/- PD-L1

* Lack of responses with botensilimab (CTLA-4) plus balstilimab (PD-1) in patients with liver metastases in MSS mCRC (Bullock, *Nat Med* 2024)

Andre et al, *GI Symposium* 2025

What we know in MSS mCRC about IO

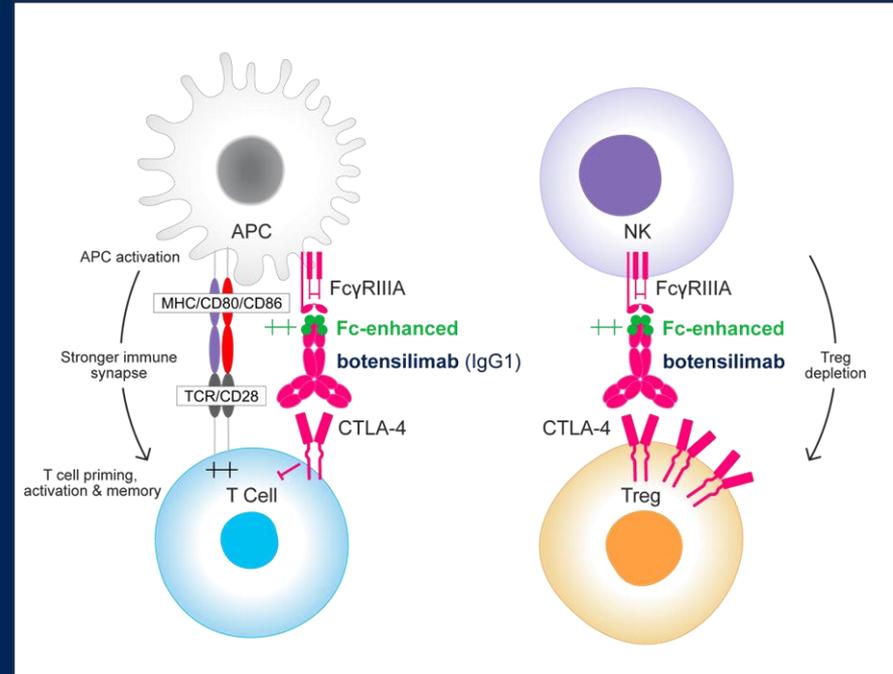
- Checkpoint inhibitors targeting PD-1/PD-L1 as single agents have no activity in microsatellite stable (MSS) colorectal cancer
- Limited activity noted with anti PD-1/PD-L1 and “first generation” CTLA4 antibodies
 - Durvalumab+tremelimumab:
 - ORR 1%; DCR 22.7%; median PFS 1.8 mo; median OS 6.6 mo
 - Nivolumab+ipilimumab
 - mPFS 1.4 mo

Botensilimab: multifunctional Fc enhanced anti-CTLA-4 antibody

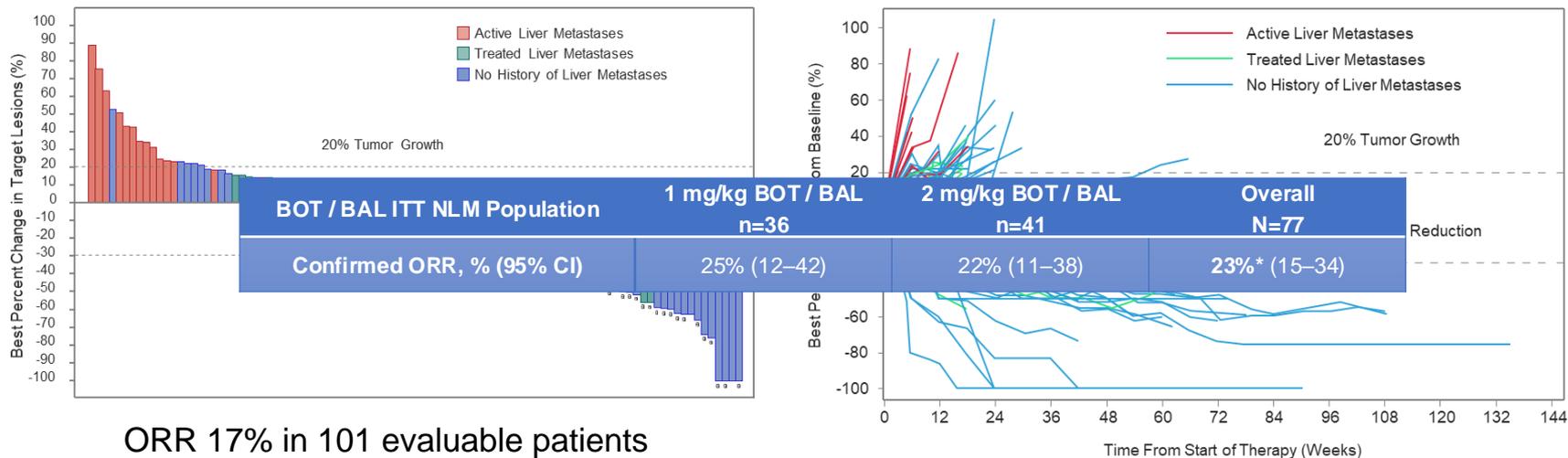
Botensilimab

Multifunctional Fc-enhanced Anti-CTLA-4 Antibody

- **Enhances** T cell priming, expansion, memory
- **Activates** APCs/myeloid cells
- **Enhances** Treg depletion
- **Improves** safety by reducing complement-mediated toxicities (eg, hypophysitis)



Botensilimab+Balstilimab: Phase I expansion in MSS CRC

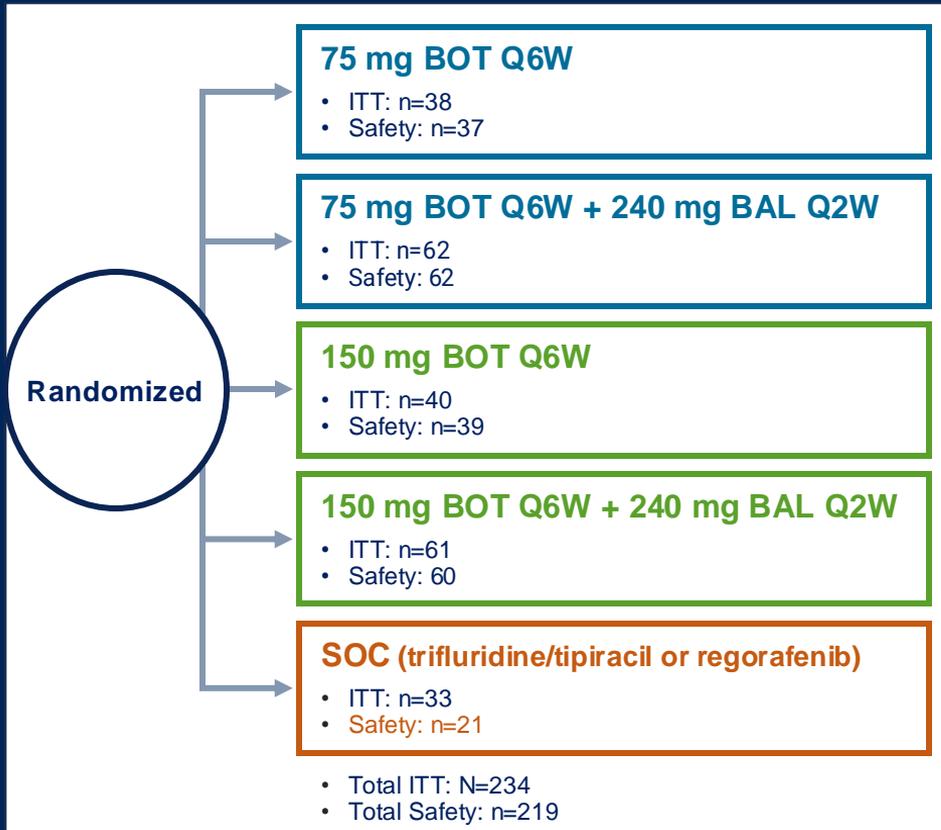


ORR 17% in 101 evaluable patients

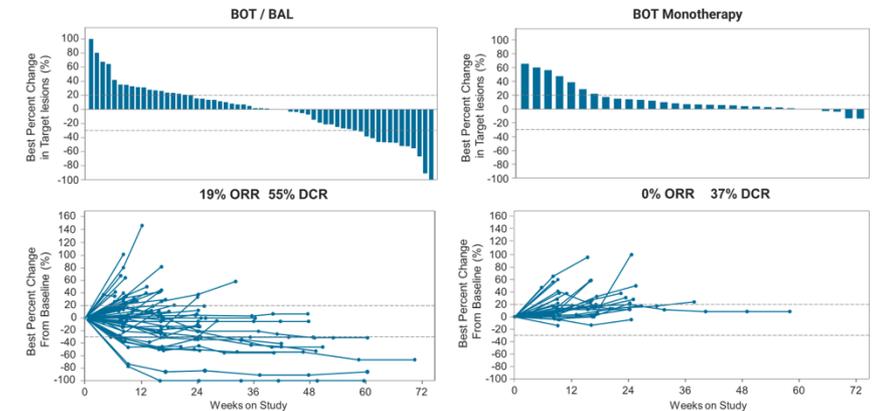
Median OS 20.9 months (95% CI, 10.6 months–NR)
12-month OS rate 60% (95% CI, 49–69%)

Bullock A, et al. *Nature Medicine*. 2024; Chand C, et al. *Cancer Discov*. 2024

Botensilimab+Balstilimab Global Phase 2



Efficacy in BOT 75 mg Arms: BOT / BAL is Superior to BOT Monotherapy⁹



ASCO Gastrointestinal
Cancers Symposium

#GI25

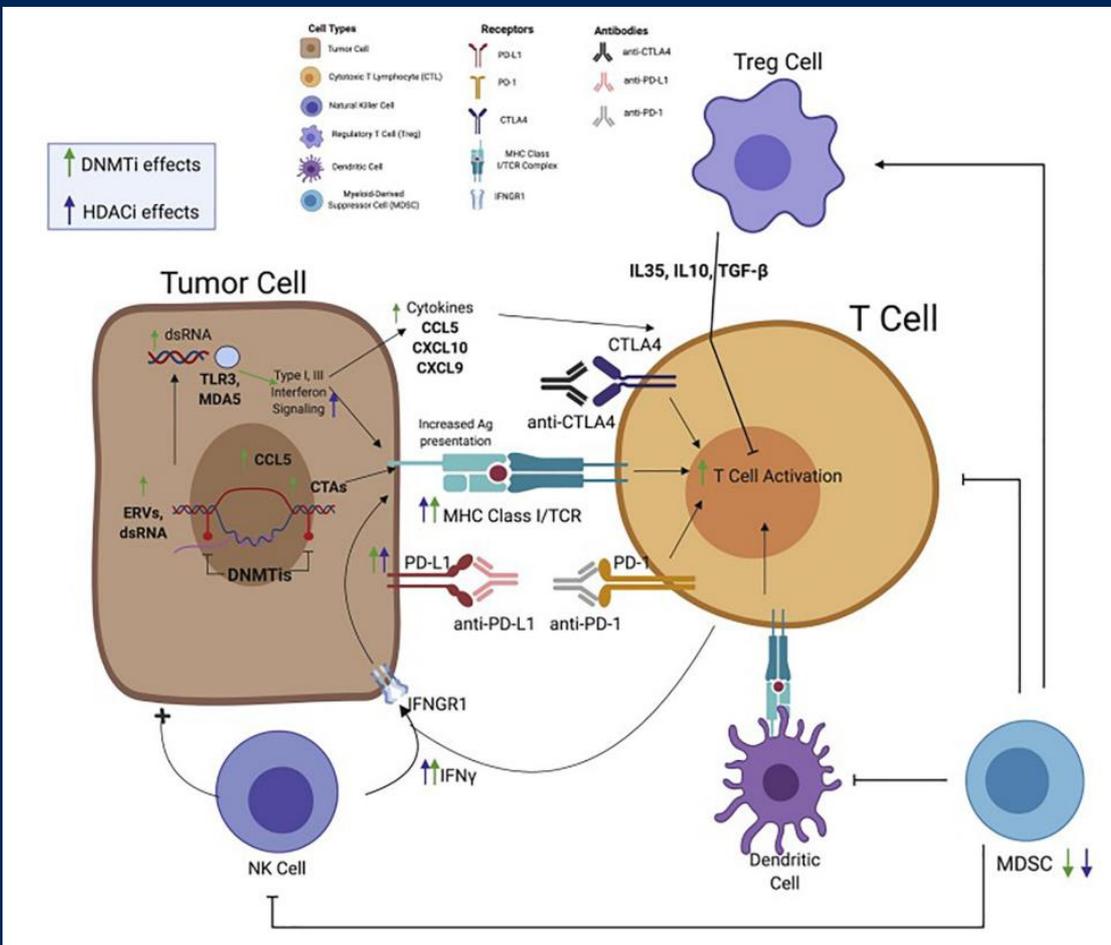
PRESENTED BY: Marwan G. Fakih, MD

Presentation is property of the author and ASCO. Permission required for reuse, contact permissions@asco.org

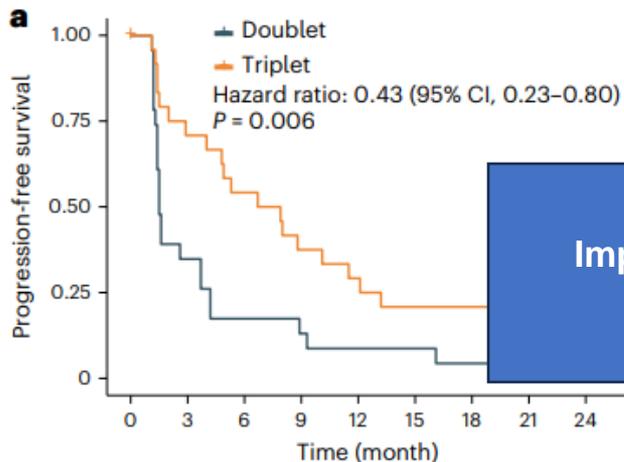
AMERICAN SOCIETY OF
ONCOLOGY
KNOWLEDGE CONQUERS CANCER

Fakih M et al, ASCO GI 2025

Immunomodulatory effects of epigenetic therapy

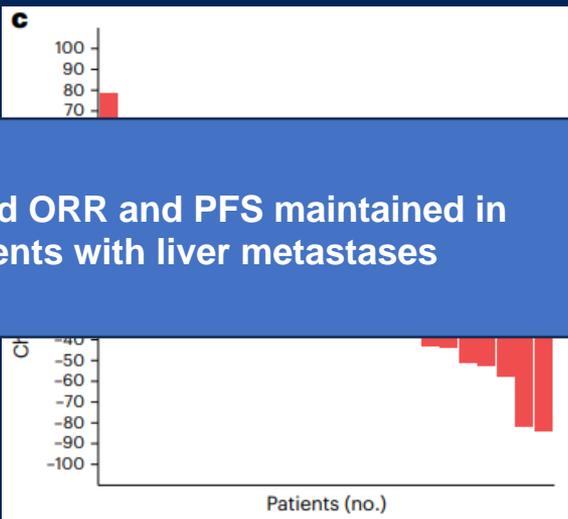


Combined anti-PD-1, HDAC inhibitor and anti-VEGF for MSS/pMMR colorectal cancer: a randomized phase 2 trial

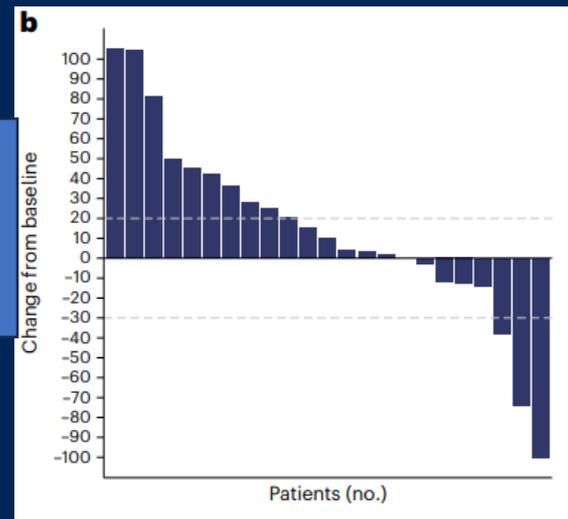


| | No. at risk | | | | | | | | |
|---------|-------------|----|----|---|----|----|----|----|----|
| | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 |
| Doublet | 23 | 8 | 4 | 3 | 2 | 2 | 1 | 0 | 0 |
| Triplet | 25 | 17 | 13 | 9 | 7 | 5 | 5 | 4 | 2 |

Chidamide/Sintilimab/Bev



Chidamide/Sintilimab



Improved ORR and PFS maintained in patients with liver metastases

ORR 44%
(44.0%; 95% CI, 24.4%–65.1%)

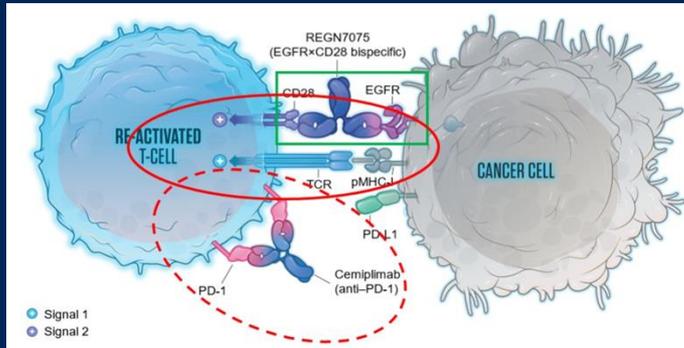
ORR 13%
(13.0%; 95% CI, 2.8%–33.6%)

**Increasing engagement of various cellular
compartments in TME
Bispecifics
Cell engagers**

Bispecific antibodies: tumor cell binding mediated immune co-stimulation

REGN7075: binds EGFR on tumors and CD28 on cytotoxic T cells

Facilitate T cell activation through endogenous tumor antigens

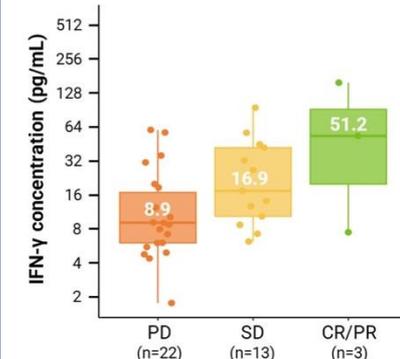


All MSS CRC patients
(N=51) ORR: 5.9%

MSS CRC patients without
liver metastases (N=15)
ORR 20%

| Tumor response*, n (%) | Patients (n=15) |
|---------------------------|----------------------|
| ORR (CR+PR), 95% CI | 3 (20.0), 4.3–48.1 |
| CR | 1 (6.7) |
| PR | 2 (13.3) |
| SD | 9 (60.0) |
| NE | 3 (20.0) |
| DCR (CR+PR+SD), 95% CI | 12 (80.0), 51.9–95.7 |

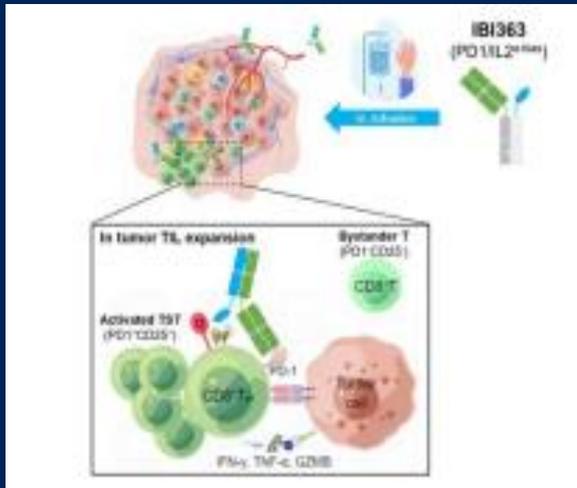
Peak serum IFN- γ during combo (pMMR/MSS CRC)



Segal N et al, ASCO 2024

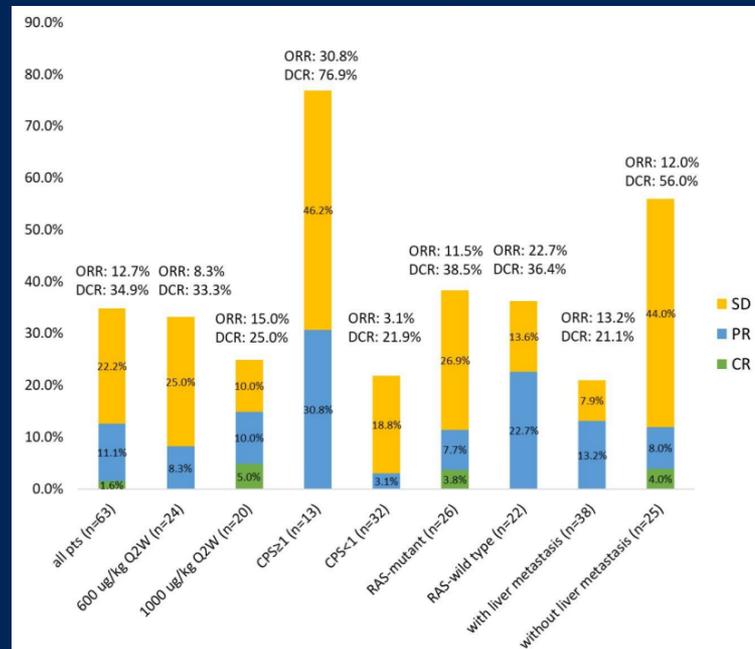
Bispecific antibodies: co-targeting a checkpoint and a cytokine

IBI 363: PD-1/IL2^{cbias} bispecific antibody



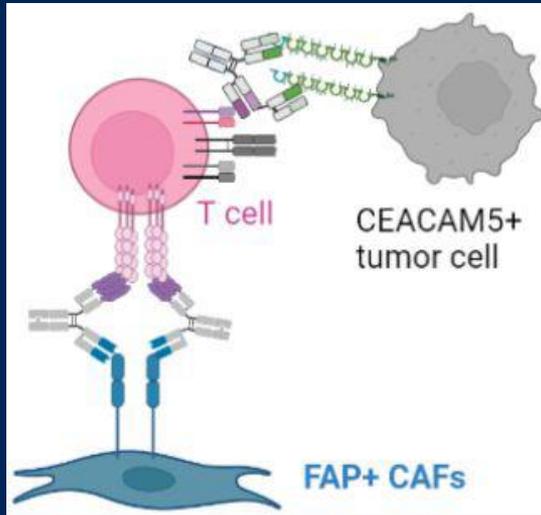
Specifically activated PD1⁺CD25⁺ tumor specific T cells
 Activates peripheral regulatory T cells

Phase I N=68; MSS 84%; 16% unknown



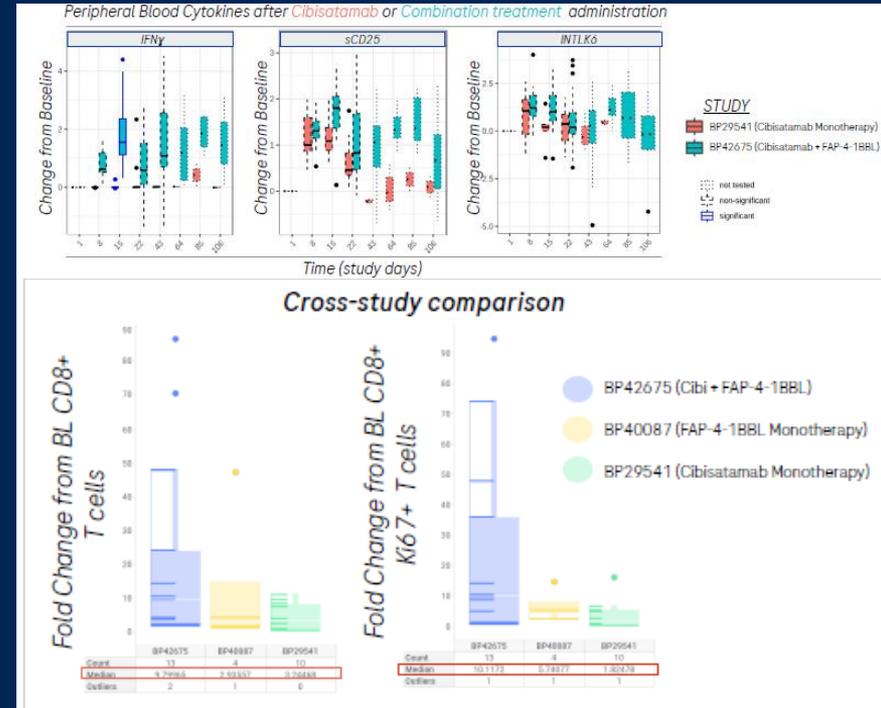
Combinatorial Approaches: cell engager with a bispecific: two signals to enhance anti cancer immunity

Cibisatamab, T cell engager targeting CEA on tumor cells and CD3 on T cells
 +
 FAP-4-1BBL, bispecific fusion protein carrying 4-1BB ligand and α FAP binding site



Combination leads to superior T cell activation in peripheral blood with increase in IFN γ , soluble CD25, and interleukin 6

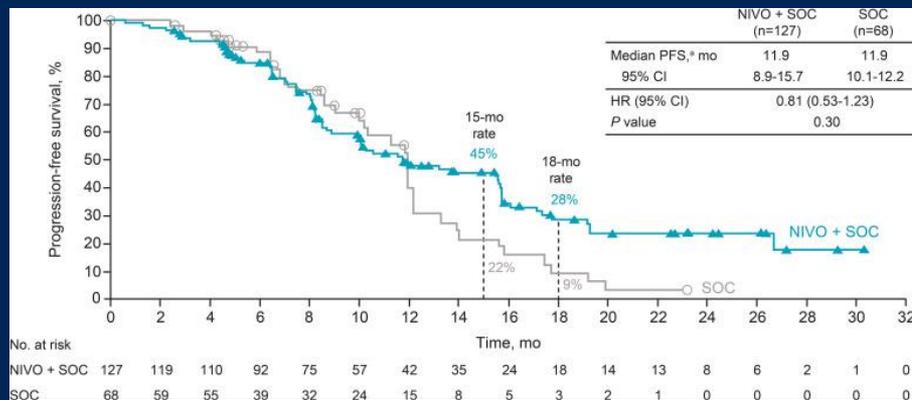
Combination results in Superior Intratumoral CD8+ T cell infiltration



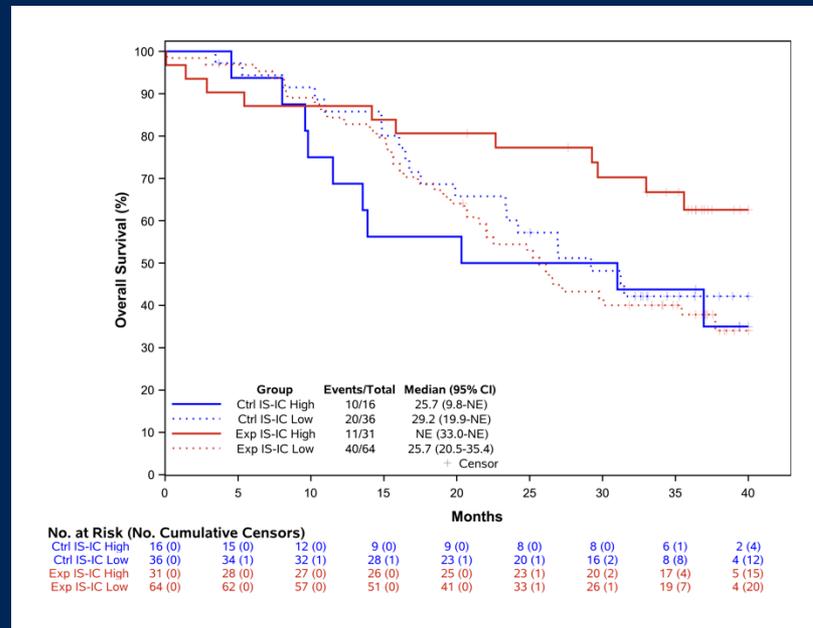
Combination with chemotherapy

Can cytotoxic chemotherapy potentiate the effect of checkpoint inhibitors in MSS CRC

Checkmate 9X8 mFOLFOX6+Bev with and without nivolumab



Did not meet primary endpoint of mPFS improvement
Higher PFS rates at 15 and 18 months and higher ORR



Lenz HJ et al, *J Immunother Cancer* 2024
Antonioti C et al, *J Clin Oncol* 24

Conclusions

Various emerging, innovative approaches will soon lead to major advances in IO treatment options for colorectal cancer

- **Targeted Therapies moving into 1L:** G12C inhibitor, pan ras inhibitor, her2 and Braf V600E inhibitors
- **MSI**
 - PD1/CTL4 shows high efficacy in 1L and should be considered SOC
 - Novel inhibitors develop to overcome innate resistance
- **MSS**
 - IO moving in combination into 1L with chemo/beva
 - Bot/Bal promising efficacy in extrahepatic disease (toxicity)
- **Augmented Immunotherapy**
 - Combination of IO agents, bispecific mAbs (e.g. T-cell engagers)
- **Cellular Therapies**
 - Developing



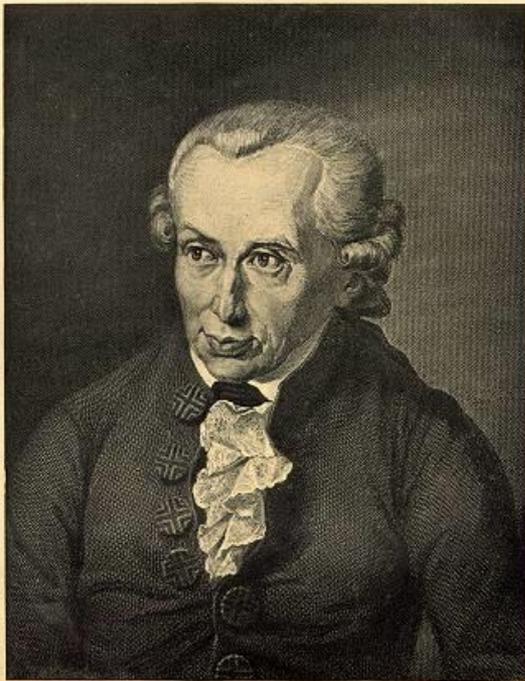
ANOS DE CONGRESSO



Missing

1. Josh Millstein
2. Evanthia Torres
3. Yan Yang
4. Priya Jayachandran
5. Unnati Shah
6. Francesca Battaglin

DE
RESSO



Immanuel Kant (Photo from a steel engraving)



The one who knows more, may decide better