# **362P** Phase la study to evaluate GDC-6036 monotherapy in patients with colorectal cancer (CRC) with KRAS G12C mutation

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# BACKGROUND

- The oncogenic KRAS G12C mutation is one of the most prevalent KRAS mutations in cancer, present in ~12% nonsmall cell lung cancer (NSCLC), ~4% CRC, and up to 4% of other cancers
- GDC-6036 is an oral, highly potent and selective KRAS G12C inhibitor that irreversibly locks the protein in an inactive state to turn off its oncogenic signaling
- GDC-6036 is more potent and selective in vitro than sotorasib and adagrasib<sup>1</sup>
- Single-agent GDC-6036 data in NSCLC presented at the 2022 World Conference on Lung Cancer<sup>2</sup>

# OBJECTIVES

To characterize the safety (NCI-CTCAE v.5), preliminary antitumor activity (RECIST v1.1), pharmacokinetics and exploratory biomarkers of GDC-6036 as a single agent or in combination therapy in patients with locally advanced or metastatic solid tumors with KRAS G12C mutation

# METHODS

- Ongoing Phase I dose-escalation/expansion study (ClinicalTrials.gov: NCT04449874)
- GDC-6036 50-400 mg administered orally once a day in 21-day cycles until intolerable toxicity or disease progression
- Serial circulating tumor DNA (ctDNA) levels were assessed at Cycle 1 Day 1 (pre-GDC-6036 dose), Cycle 1 Day 15 (C1D15) and Cycle 3 Day 1 (C3D1) using the PredicineBEACON MRD assay

### Figure 2. Study design.

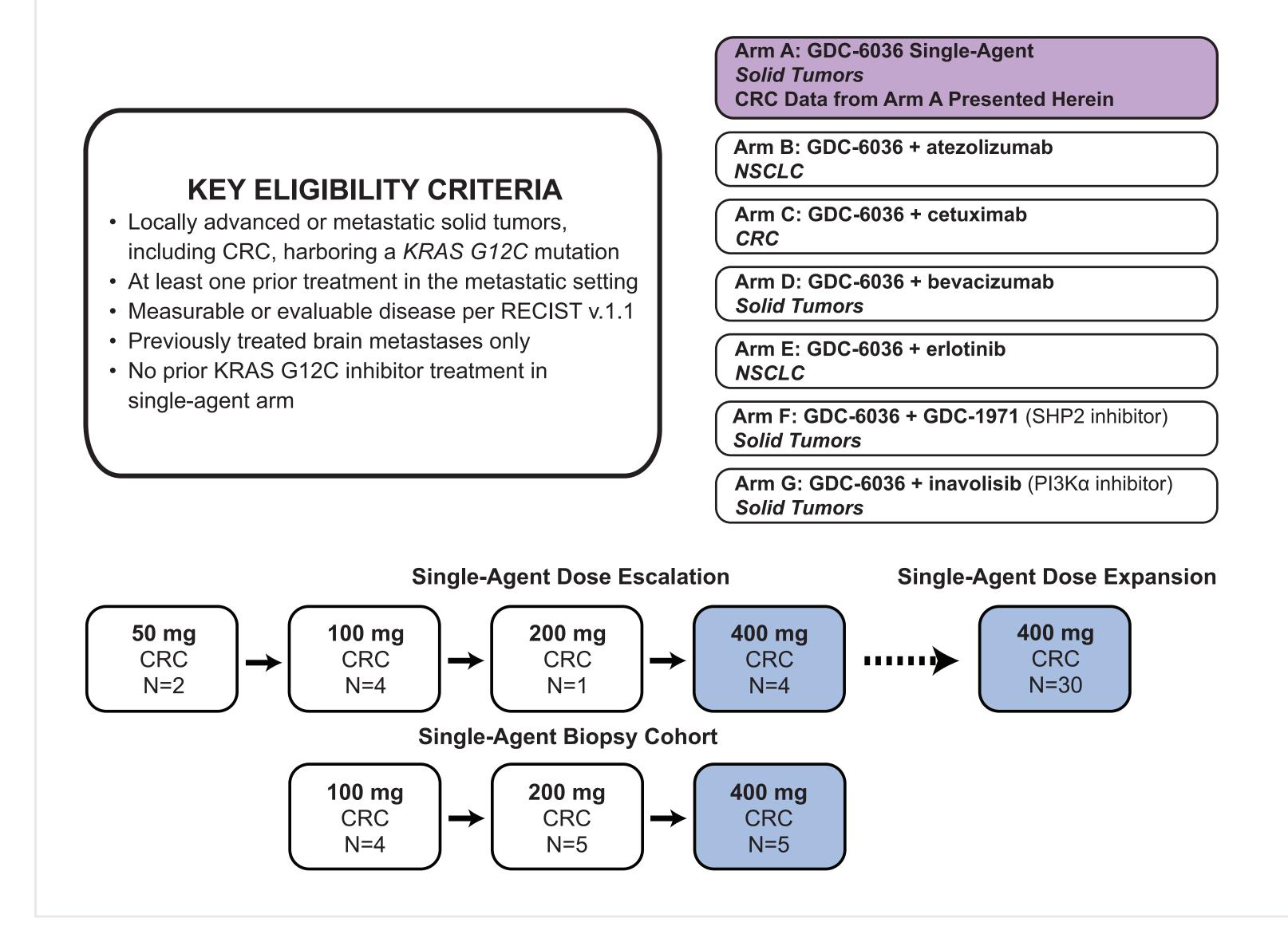
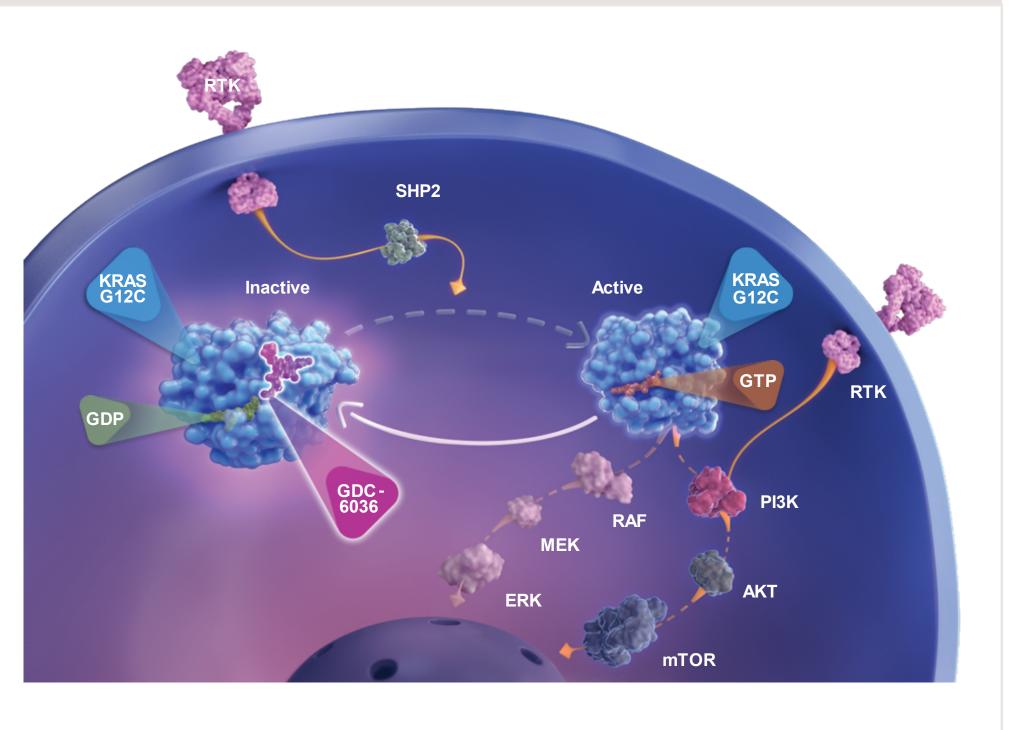


Figure 1. GDC-6036 is a potent, selective, covalent inhibitor of KRAS G12C.



# RESULTS

## **DISPOSITION AND BASELINE DEMOGRAPHICS - CRC**

- Data reported as of 10 June 2022 on 55 patients with CRC, enrolled and treated with single-agent GDC-6036 (n, 50 mg: 2; 100 mg: 8; 200 mg: 6; 400 mg: 39) (Table 1)
- Twenty-nine (53%) patients discontinued study treatment: 22 due to RECIST progression, 3 due to clinical progression, 3 due to adverse events (all unrelated to GDC-6036), and 1 due to other reasons

### Table 1. Patient demographics and disease characteristics.

|  | CRC Patients<br>(N=55)           |
|--|----------------------------------|
| Age, median (range), years   | 62 (34-81)                       |
| Sex, female  | 33 (60%)                         |
| ECOG: 0 / 1 (N=53)   | 23 (43%) / 30 (57%)              |
| Median (range) number of prior therapies in a metastatic setting                   | 3 (1-7)                          |
| Prior oxaliplatin therapy<br>Prior irinotecan therapy<br>Prior bevacizumab therapy | 54 (98%)<br>45 (82%)<br>34 (62%) |
| Time on treatment, median (range), months  | 4.47 (0.2-10.3)                  |

### SAFETY - ALL SOLID TUMORS

- In CRC patients, the most frequent GDC-6036-related adverse events (AEs) in ≥10 patients were nausea, diarrhea, vomiting, and fatigue; the only treatment-related Grade ≥3 AEs were diarrhea (3 patients, 5.5%; all Grade 3) and neutropenia (1 patient, 1.8%; Grade 3) (Table 2). AEs were manageable with supportive measures
- Eight (14.5%) CRC patients required a dose modification (interruption [5 patients] or reduction [3 patients]; no withdrawals) for GDC-6036-related AEs (Table 3). AEs that resulted in GDC-6036 dose reduction were diarrhea, gastrointestinal stoma complication, and nausea (1 patient each)

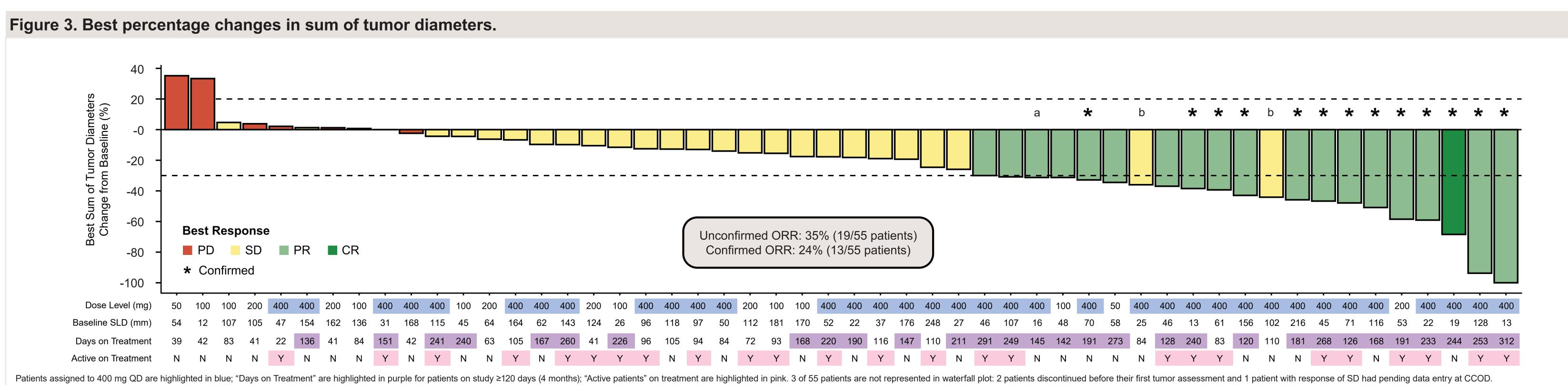
#### Table 2. Treatment-related AEs in ≥10 patients overall (among all solid tumors and corresponding in CRC) and corresponding Grade 3-4 AEs.

| corresponding in CRC) and corresponding Grade 3-4 ALS. |                        |           |                         |           |  |  |  |
|--|------------------------|-----------|-------------------------|-----------|--|--|--|
|  | CRC Patients<br>(N=55) |           | All Patients<br>(N=136) |           |  |  |  |
|  | Related AEs            | Grade 3-4 | <b>Related AEs</b>      | Grade 3-4 |  |  |  |
| Patients with at least one AE                          | 53 (96%)               | 4 (7%)    | 124 (91%)               | 14 (10%)  |  |  |  |
| Nausea   | 42 (76%)               | 0         | 99 (73%)                | 0         |  |  |  |
| Diarrhea   | 37 (67%)               | 3 (5.5%)  | 83 (61%)                | 5 (4%)    |  |  |  |
| Vomiting   | 29 (53%)               | 0         | 72 (53%)                | 0         |  |  |  |
| Fatigue  | 10 (18%)               | 0         | 27 (20%)                | 1 (1%)    |  |  |  |
| Decreased appetite                                     | 6 (11%)                | 0         | 17 (12.5%)              | 0         |  |  |  |
| ALT increased  | 1 (2%)                 | 0         | 12 (9%)                 | 4 (3%)    |  |  |  |
| AST increased  | 3 (5.5%)               | 0         | 12 (9%)                 | 3 (2%)    |  |  |  |
| Dyspepsia  | 6 (11%)                | 0         | 12 (9%)                 | 0         |  |  |  |
| Lipase increased                                       | 0                      | 0         | 10 (7%)                 | 1 (1%)    |  |  |  |
| No treatment-related Grade 5 events were reported.     |                        |           |                         |           |  |  |  |

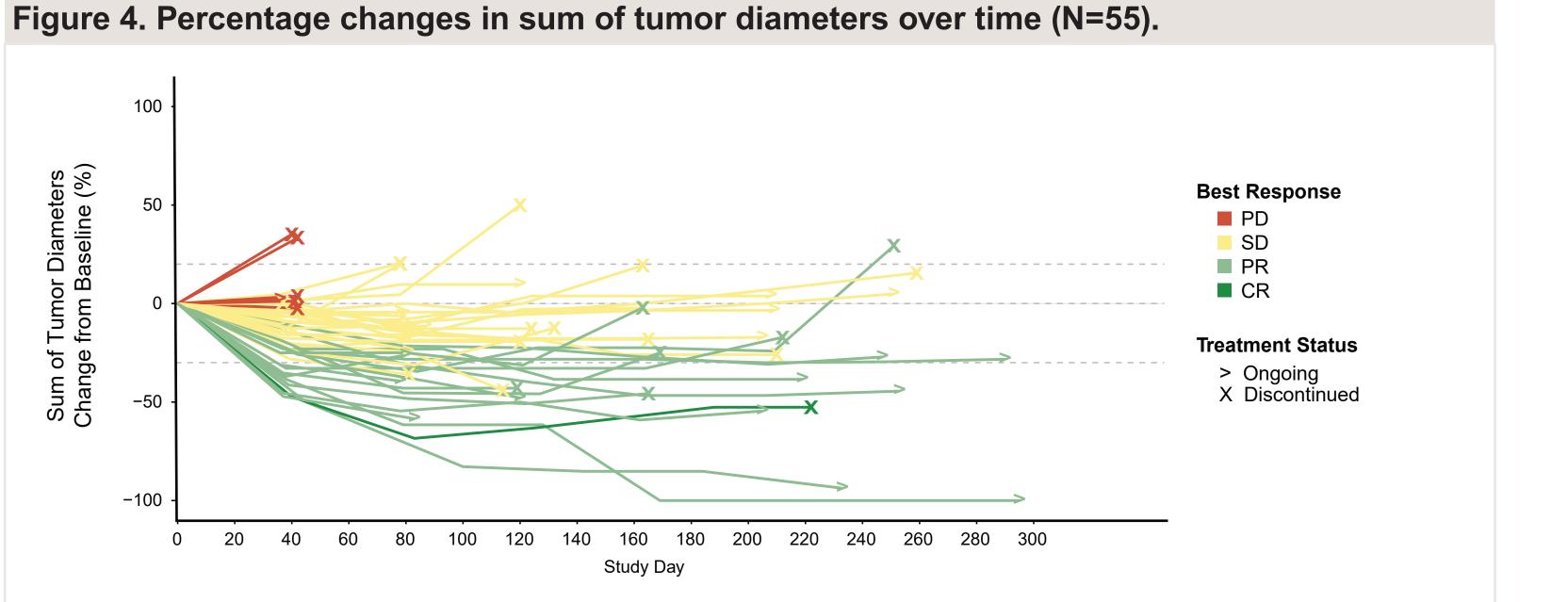
No treatment-related Grade 5 events were reported

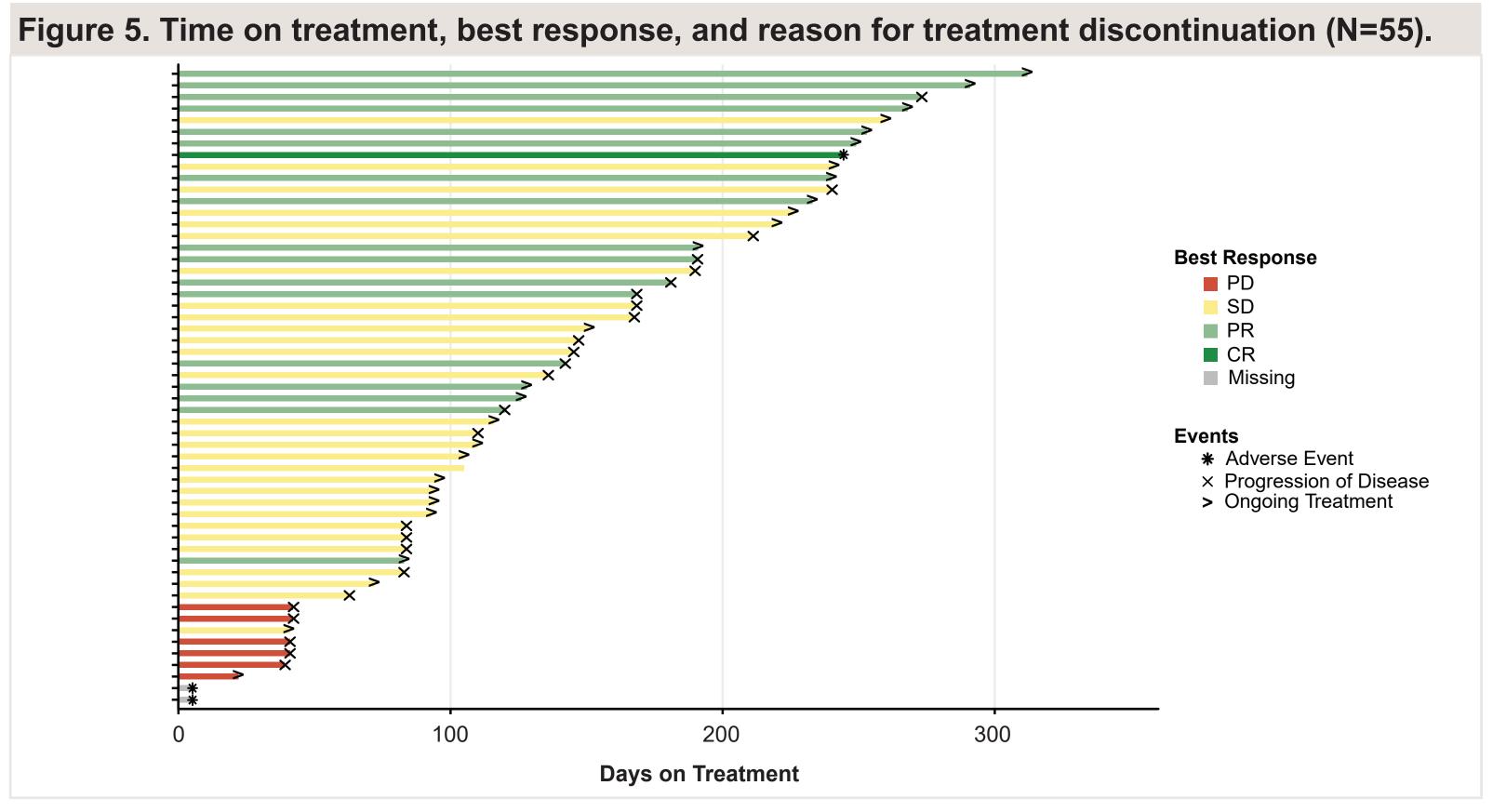
| Table 3. Dose modifications due to treatment-related AEs.                                |                        |                         |  |  |  |
|--|------------------------|-------------------------|--|--|--|
|  | CRC Patients<br>(N=55) | All Patients<br>(N=136) |  |  |  |
| Patients with AEs resulting in GDC-6036 modification (interruption/reduction/withdrawal) | 8 (14.5%)              | 33 (24%)                |  |  |  |
| Patients with AEs resulting in GDC-6036 reduction  | 3 (5.5%)               | 18 (13%)                |  |  |  |
| Patients with AEs resulting GDC-6036 withdrawal  | 0                      | 3 (2%)                  |  |  |  |

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a Best overall response with data entry error, corrected to PR in the waterfall; b Two patients had a Best Overall Response of SD despite SLD reduction >30%, since reduction was concomitant with appearance of new lesions





### PRELIMINARY ANTI-TUMOR ACTIVITY - CRC

At 400 mg, unconfirmed overall response rate (ORR) was **41%** (16/39 patients) and confirmed ORR was **31%** (12/39 patients)

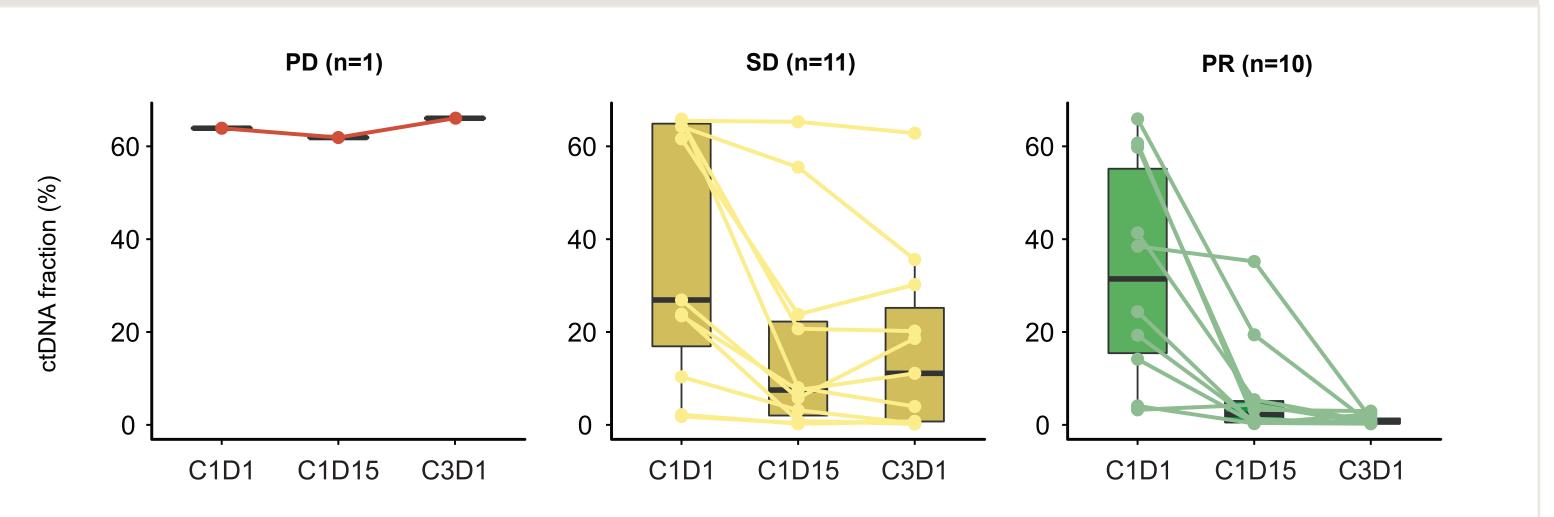
# PHARMACOKINETICS - ALL SOLID TUMORS

- Following a single dose (50-400 mg) of GDC-6036, mean  $t_{1/2}$  ranged from **13 to 17 hours**, compatible with QD dosing
- The majority of patients treated at the expansion dose (400 mg QD) of GDC-6036 are predicted to achieve exposures corresponding to maximal covalent target engagement from nonclinical studies

### **EXPLORATORY BIOMARKERS - CRC**

- After 2 weeks of GDC-6036 treatment, ctDNA fraction was reduced in patients with PR, and a subset of patients with SD
- After 6 weeks of GDC-6036 treatment, low ctDNA fraction (< 3%) observed among patients with PR

### Figure 6. ctDNA dynamics in association with tumor response.



# CONCLUSIONS

Single-agent GDC-6036 demonstrated an acceptable safety profile with manageable, tolerable, and reversible adverse events across tumor types, including CRC

As a single agent, GDC-6036 has encouraging anti-tumor activity in patients with previously treated KRAS G12C-positive CRC

GDC-6036 PK profile is compatible with once-daily dosing

Reductions in ctDNA fractions on treatment were associated with tumor response in CRC

GDC-6036 in combination with other anti-cancer therapies, including cetuximab and SHP2 inhibitor GDC-1971, is under investigation in CRC

ESMO 2022 mini-oral presentation on 12 September 2022, Patel et al. Monotherapy GDC-6036 in Solid Tumors, except NSCLC and CRC

A Phase II/III study is recruiting advanced/metastatic previously treated NSCLC patients for treatment with GDC-6036 vs. docetaxel (**BFAST**; NCT03178552)



### REFERENCES

 Purkey H, et al. Discovery of GDC-6036, a clinical stage treatment for KRAS G12C-positive cancers. American Association for Cancer Research Annual Meeting, New Orleans, Lousiana; April 8-13, 2022. Sacher A, et al. Phase la study to evaluate GDC-6036 monotherapy in patients with non-small cell lung cancer (NSCLC) with KRAS G12C mutation. 2022 World Conference on Lung Cancer, Vienna, Austria; August 6-9, 2022

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