#### Sotorasib, panitumumab, and FOLFIRI in the first-line setting for *KRAS* G12C–mutated metastatic colorectal cancer: safety and efficacy analysis from the phase 1b CodeBreaK 101 study

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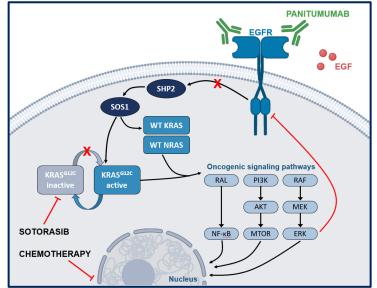
#### **Declaration of Interests**

**Dr Salvatore Siena** reports participating on advisory boards (personal) for Agenus, AstraZeneca, Bayer, Bristol Myers Squibb, CheckmAb, Daiichi-Sankyo, GlaxoSmithKline, MSD, Merck, Novartis, Pierre-Fabre, Seagen, and T-One Therapeutics

## Background

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- Approximately 3% of patients with CRC have an oncogenic KRAS G12C mutation<sup>1</sup>
- In CodeBreaK 300 (NCT05198934), sotorasib plus panitumumab significantly improved PFS compared with investigator's choice in patients with chemorefractory KRAS G12C–mutated mCRC<sup>2</sup>
  - The final analysis of CodeBreaK 300 showed an ORR of 30% for the combination of sotorasib plus panitumumab<sup>3</sup>
- In the phase 1b CodeBreaK 101 (NCT04185883) study, the addition of FOLFIRI to sotorasib plus panitumumab demonstrated an acceptable safety profile and a promising ORR of 60% for patients with previously treated KRAS G12C–mutated mCRC<sup>4</sup>

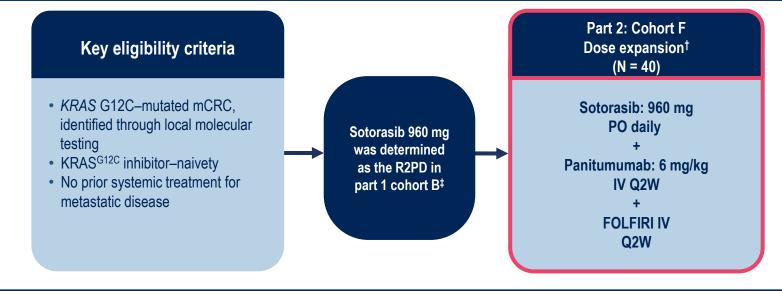


# Here we evaluated the safety and efficacy of sotorasib, panitumumab, and FOLFIRI in the first-line setting for mCRC disease

AKT, protein kinase B; CRC, colorectal cancer; EGFR, epidermal growth factor receptor; ERK, extracellular signal-regulated kinase; FOLFIRI, irinotecan, leucovorin plus 5-fluorouracil; KRAS, Kirsten rat sarcoma virus; mCRC, metastatic colorectal cancer; MEK, mitogen-activated extracellular signal-regulated kinase; MTOR, mammalian target of rapamycin; NF-kB, nuclear factor kappa B; NRAS, neuroblastoma Ras viral oncogene homolog; ORR, objective response rate; PFS, progression-free survival; PI3K, phosphatidylinositol 3-kinase; RAF, rapidly accelerated fibrosarcoma; RAL, Ras-related protein; SHP2, Src homology region 2-containing protein tyrosine phosphatase 2; SOS1, son of sevenless homolog 1; WT, wild type.

## **Study Schema**

CodeBreaK 101 subprotocol H phase 1b, multicenter, open-label study\*: sotorasib + panitumumab + FOLFIRI in first-line *KRAS* G12C–mutated mCRC



#### Primary endpoint: Safety and tolerability

#### Secondary endpoints: Anti-tumor efficacy (ORR, DCR, DOR, TTR, PFS per RECIST v1.1, and OS) and PK

\*NCT04185883. <sup>†</sup>Treatment until disease progression, withdrawal of consent, or end of study. <sup>‡</sup>No dose adjustment was needed. DCR, disease control rate; DOR, duration of response; FOLFIRI, irinotecan, leucovorin plus 5-fluorouracii; IV, intravenous; KRAS, Kirsten rat sarcoma virus; mCRC, metastatic colorectal cancer; ORR, objective response rate; OS, overall survival; PFS, progression-free survival; PK, pharmacokinetics; PO, orally; Q2W, every 2 weeks; RECIST, Response Evaluation Criteria in Solid Tumors; RP2D, recommended phase 2 dose; TTR, time to response.

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#### **Baseline Characteristics**

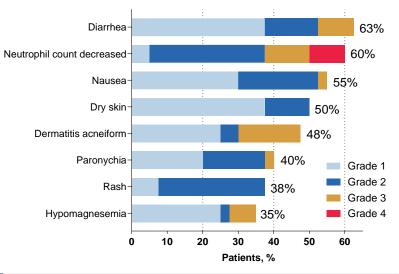
	Sotorasib + Panitumumab + FOLFIRI (N = 40)
Median age, years (range)	60 (23–80)
Male	23 (58)
White / Asian / Black or African American / Other	22 (55) / 15 (38) / 2 (5) / 1 (3)
ECOG performance status 0 / 1	27 (68) / 13 (33)
Liver metastasis	26 (65)
Liver metastasis only	7 (18)
Lung metastasis	24 (60)
Lymph node metastasis	16 (40)
Peritoneal metastasis	17 (43)
Tumor sidedness, left / right / unknown	27 (68) / 10 (25) / 3 (8)
Prior fluoropyrimidine	8 (20)
Prior oxaliplatin	8 (20)
Prior irinotecan <sup>†</sup>	1 (3)
Prior fluoropyrimidine, oxaliplatin, and irinotecan	1 (3)
Prior radiotherapy / surgery for current malignancy	3 (8) / 25 (63)

Data cutoff, July 15, 2024. Baseline characteristics shown as n (%) unless otherwise stated. 1Patient received FOLFIRINOX in the neoadjuvant setting. ECOG, Eastern Cooperative Oncology Group; FOLFIRI, irinotecan, leucovorin plus 5-fluorouracil.

### **Treatment-Related Adverse Events**

	Sotorasib + Panitumumab + FOLFIRI (N = 40)
Any-grade TRAEs, n (%)	40 (100)
Grade ≥ 3	23 (58)
Leading to dose reduction / interruption	35 (88)
Sotorasib	20 (50)
Panitumumab	26 (65)
5-fluorouracil	28 (70)
Irinotecan	25 (63)
Leading to discontinuation	7 (18)
Sotorasib	1 (3)
Panitumumab	2 (5)
5-fluorouracil	5 (13)
Irinotecan	4 (10)
Discontinued all study therapy	1 (3)

#### TRAEs Occurring in $\geq$ 30% of All patients

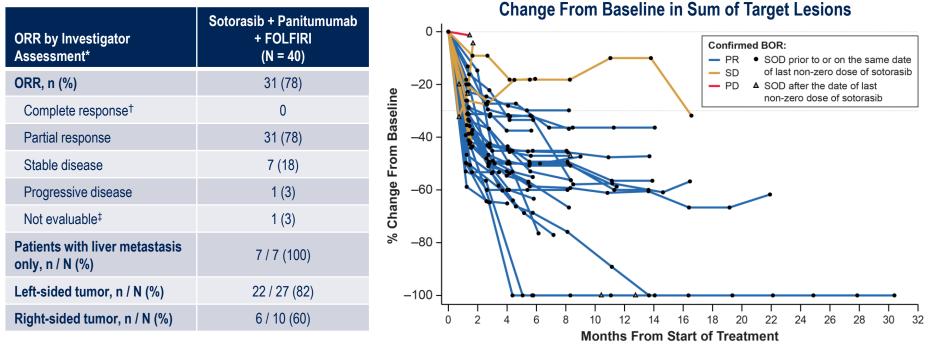


 TRAEs were consistent with known safety profiles of sotorasib, panitumumab, and FOLFIRI

No fatal TRAEs occurred

Data cutoff, July 15, 2024. FOLFIRI, irinotecan, leucovorin plus 5-fluorouracil; TRAE, treatment-related adverse event.

## **Efficacy Summary**

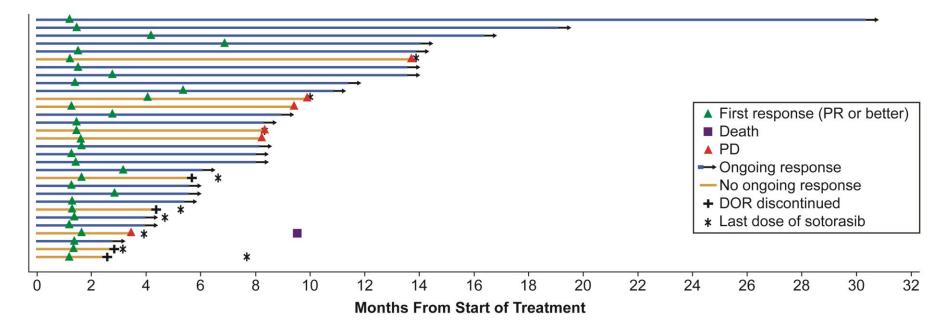


#### A total of 38 patients (95%) achieved disease control<sup>\*</sup>, and all patients had reduction in target lesions

Data cutoff, July 15, 2024. \*ORR analysis set includes all patients who received at least 1 dose of investigational products, have one or more measurable lesions at baseline assessed using RECIST 1.1, and had the opportunity to be followed for at least 7 weeks starting from day 1. <sup>1</sup>One patient had a confirmed CR after data cutoff. <sup>‡</sup>Patient had only non-evaluable scans before end of study. <sup>'</sup>Achieved a complete response, partial response, or stable disease. **BOR**, best overall response; **CR**, complete response; **FOLFIRI**, irinotecan, leucovorin plus 5-fluorouracil; **ORR**, objective response rate; **PD**, progressive disease; **PR**, partial response; **SD**, stable disease; **SOD**, sum of lesion diameter.

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### **Duration of Response in Confirmed Responders**



With a median follow-up time of 6.7 months, 21 out of 31 responders (68%) are still on study with ongoing response

Data cutoff, July 15, 2024. ORR analysis set includes all patients who received at least 1 dose of investigational products, have one or more measurable lesions at baseline assessed using RECIST v1.1, and had the opportunity to be followed for at least 7 weeks starting from day 1. DOR, duration of response; ORR, objective response rate; PD, progressive disease; PR, partial response; RECIST, Response Evaluation Criteria in Solid Tumors; TTR, time to response.

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## Conclusions

- This study, CodeBreaK 101, in the first-line setting provides the first data set on the use of a KRAS<sup>G12C</sup> inhibitor in the first-line treatment of *KRAS* G12C–mutated mCRC
- The addition of FOLFIRI to sotorasib plus panitumumab demonstrated a manageable safety profile and promising response rates
  - TRAEs were consistent with known safety profiles of sotorasib, panitumumab, and FOLFIRI
  - The most common grade ≥ 3 TRAEs were decreased neutrophil count (23%), dermatitis acneiform (18%), and diarrhea (10%)
  - Confirmed ORR was 78% and DCR was 95%
- These data support the ongoing global phase 3 CodeBreaK 301 study (NCT06252649) evaluating sotorasib plus panitumumab and FOLFIRI in first-line *KRAS* G12C–mutated mCRC

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