

# ASCO® Gastrointestinal Cancers Symposium

## KRYSTAL-1: Updated Activity and Safety of Adagrasib (MRTX849) in Patients (Pts) With Unresectable or Metastatic Pancreatic Cancer (PDAC) and Other Gastrointestinal (GI) Tumors Harboring a KRAS<sup>G12C</sup> Mutation

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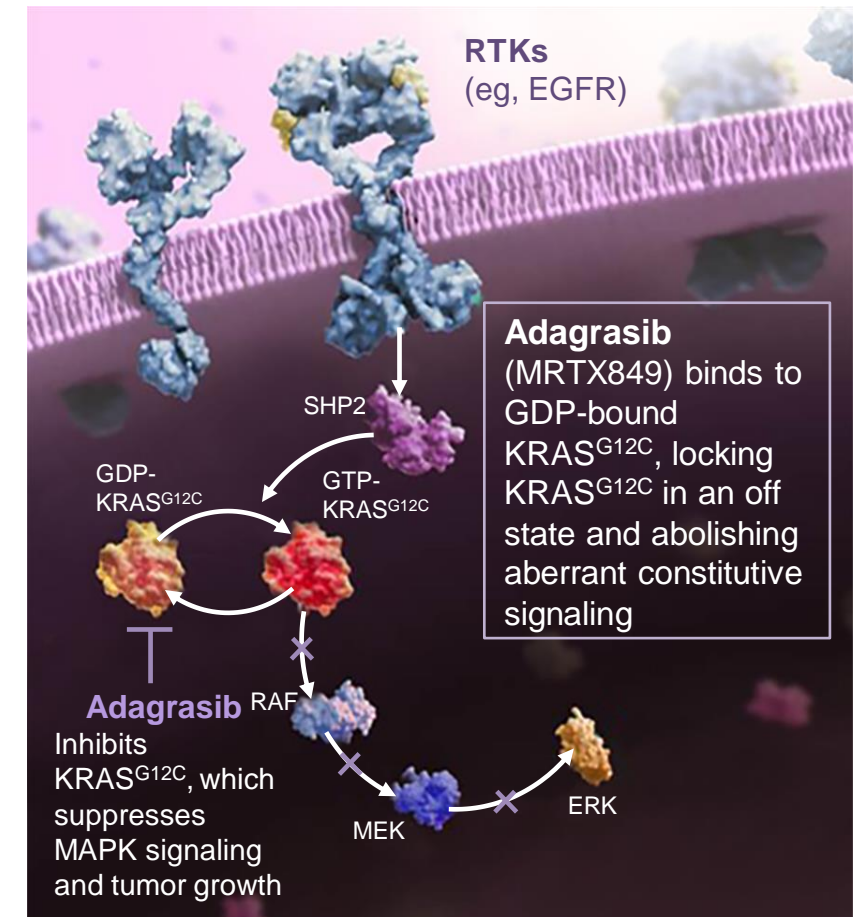
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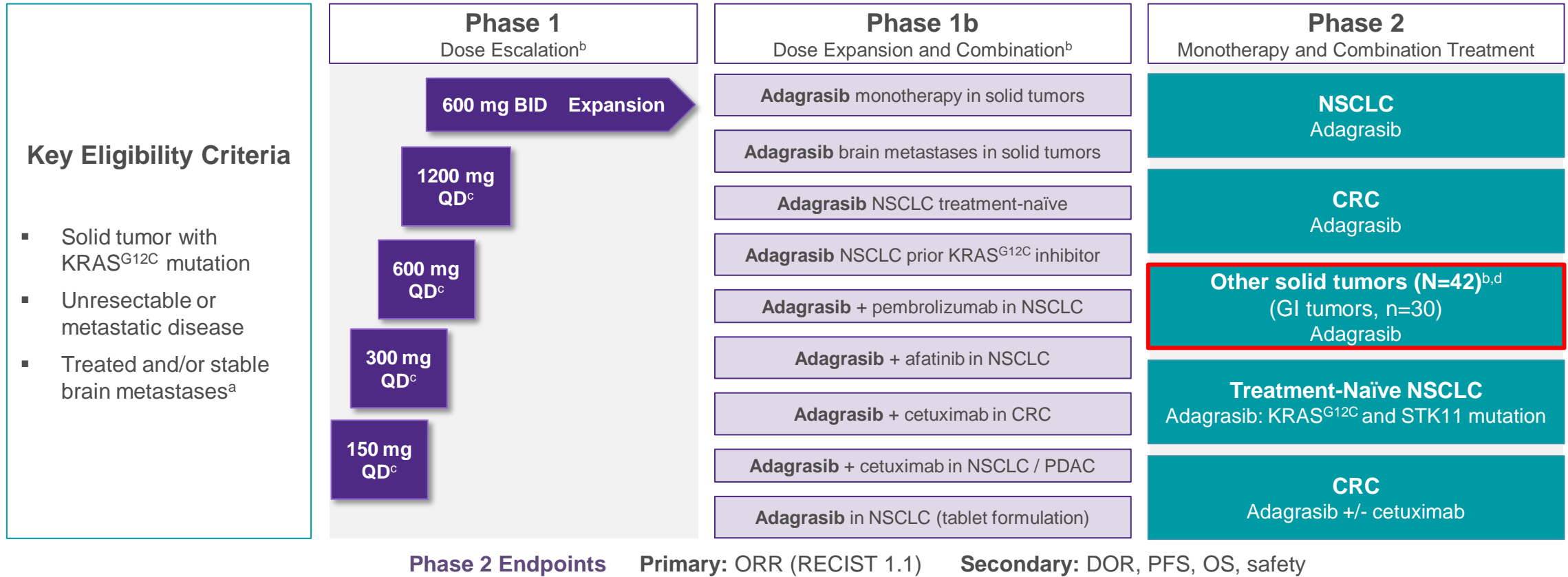


## Adagrasib (MRTX849) is a Differentiated, Selective Inhibitor of KRAS<sup>G12C</sup>

- KRAS mutations occur in approximately 90% of pancreatic cancer<sup>1</sup>; ~2% of these are KRAS<sup>G12C</sup> mutations<sup>2</sup>
- The KRAS protein cycles between GTP-on and GDP-off states and has a protein resynthesis half-life of ~24 hours<sup>3,4</sup>
- Adagrasib, a covalent inhibitor of KRAS<sup>G12C</sup>, irreversibly and selectively binds KRAS<sup>G12C</sup> in its inactive, GDP-bound state
- Adagrasib was optimized for desired properties of a KRAS<sup>G12C</sup> inhibitor<sup>5</sup>:
  - Long half-life of ~24 hours
  - Dose-dependent PK
  - CNS penetration
- Maintaining continuous exposure of adagrasib above a target threshold enables inhibition of KRAS-dependent signaling for the complete dose interval and maximizes depth and duration of antitumor activity



# KRYSTAL-1 (849-001) Study Design



- Previously reported data demonstrated clinical activity with adagrasib in patients with various KRAS<sup>G12C</sup>-mutated solid tumors, including NSCLC, CRC and other tumors such as PDAC, ovarian and endometrial cancers, and cholangiocarcinoma<sup>1-3</sup>
- Here we report preliminary data from a Phase 2 cohort evaluating adagrasib 600 mg BID in patients with previously-treated GI tumors (n=30), excluding CRC, with a focus on PDAC (n=12) and other GI cancers (n=18), with a KRAS<sup>G12C</sup> mutation

CRC, colorectal cancer; ctDNA, circulating tumor deoxyribonucleic acid; GI, gastrointestinal; NSCLC, non-small-cell lung cancer; PDAC, pancreatic ductal adenocarcinoma.  
 1. Jänne PA et al. Presented at: 2020 EORTC-NCI-AACR Symposium; Oct 25, 2020. 2. Weiss J et al. Presented at: 2021 ESMO Congress; Sept 19, 2021. 3. Johnson ML et al. Presented at: 2020 EORTC-NCI-AACR Symposium; Oct 25, 2020.  
<sup>a</sup>Most cohorts allow patients with brain metastases if adequately treated and stable; additional phase 1/1b cohort allows limited brain metastases; <sup>b</sup>KRAS<sup>G12C</sup> mutation detected in tumor tissue and/or ctDNA; <sup>c</sup>Patients subsequently dose escalated up to 600 mg BID; <sup>d</sup>Solid tumors included GI tumors (n=30) and non-GI tumors (n=12).  
 3 Data as of 10 September 2021. ClinicalTrials.gov. NCT03785249.

# Demographics and Baseline Characteristics

	PDAC (n=12)	Other GI cancers (n=18)	Overall GI cancers <sup>a</sup> (n=30)
<b>Median age, y (range)</b>	66.5 (40–80)	64.0 (54–89)	65.5 (40–89)
<b>Female, n (%)</b>	4 (33)	8 (44)	12 (40)
<b>Race, n (%)</b>			
White	7 (58)	13 (72)	20 (67)
Black or African American	1 (8)	2 (11)	3 (10)
Asian / Other	1 (8) / 3 (25)	1 (6) / 2 (11)	2 (7) / 5 (17)
<b>ECOG PS, n (%)</b>			
0 / 1	0 (0) / 12 (100)	6 (33) / 12 (67)	6 (20) / 24 (80)
<b>Tumor type, n</b>			
PDAC	12		12
Other GI		18	18
Biliary tract		8	8
Appendiceal		5	5
Gastro-esophageal junction		2	2
Small bowel		2	2
Esophageal		1	1
<b>Prior lines of systemic anticancer therapy</b>			
Median (range)	2.5 (1–4) <sup>b</sup>	2.0 (1–5)	2.0 (1–5)
1 / 2 / 3 / ≥4 / missing, %	8 / 42 / 42 / 8	22 / 39 / 11 / 22 / 6	17 / 40 / 23 / 17 / 3

Percentages may not add up to 100 due to rounding.

ECOG PS, Eastern Cooperative Oncology Group performance status.

<sup>a</sup>Excluding CRC; <sup>b</sup>All patients with PDAC received gemcitabine-based regimen(s), and all but 2 received prior fluoropyrimidine-based regimen(s).

# Adagrasib in Patients With PDAC and Other GI Tumors:<sup>a</sup> Objective Response Rate

Efficacy outcome <sup>b</sup> , n (%)	PDAC (n=10) <sup>c</sup>	Other GI cancers (n=17) <sup>d</sup>	Overall GI cancers <sup>a</sup> (n=27) <sup>c,d</sup>
<b>Objective response rate</b>	<b>5 (50)<sup>e</sup></b>	<b>6 (35)<sup>f</sup></b>	<b>11 (41)<sup>g</sup></b>
<b>Best overall response</b>			
Complete response (CR)	0 (0)	0 (0)	0 (0)
Partial response (PR)	5 (50) <sup>e</sup>	6 (35) <sup>f</sup>	11 (41) <sup>g</sup>
Stable disease (SD)	5 (50)	11 (65)	16 (59)
<b>Disease control rate</b>	<b>10 (100)</b>	<b>17 (100)</b>	<b>27 (100)</b>

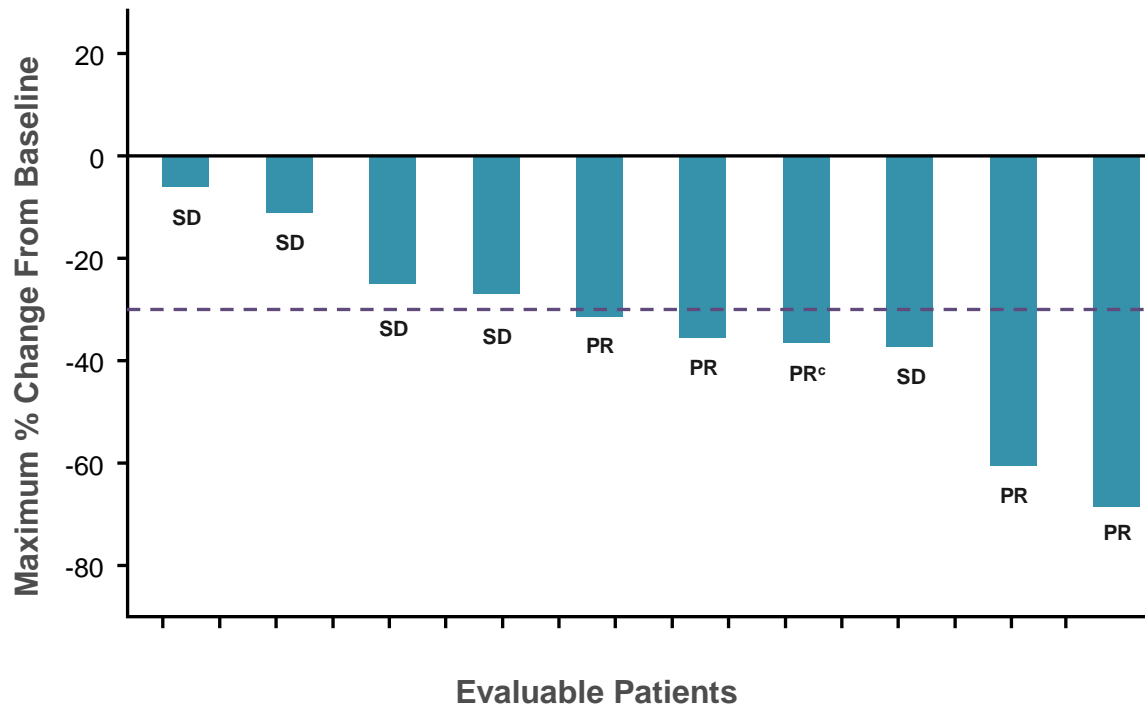
A total of 30 patients were enrolled: 12 PDAC, 18 Other GI.

<sup>a</sup>Excluding CRC; <sup>b</sup>Based on investigator assessment of the clinically evaluable patients (measurable disease with  $\geq 1$  on-study scan); <sup>c</sup>Evaluable population (n=10) excludes 2 patients who had discontinued treatment prior to first scan due to unrelated adverse events and were not evaluable for clinical activity; <sup>d</sup>Evaluable population (n=17) excludes 1 patient who withdrew consent prior to the first scan; <sup>e</sup>Includes 1 unconfirmed PR as of data cut-off; <sup>f</sup>Includes 2 unconfirmed PR as of data cut-off; <sup>g</sup>Includes 3 unconfirmed PR as of data cut-off.

Data as of 10 Sept 2021 (median follow-up: overall, 6.3 months; PDAC, 8.1 months; other GI cancers: 6.3 months).

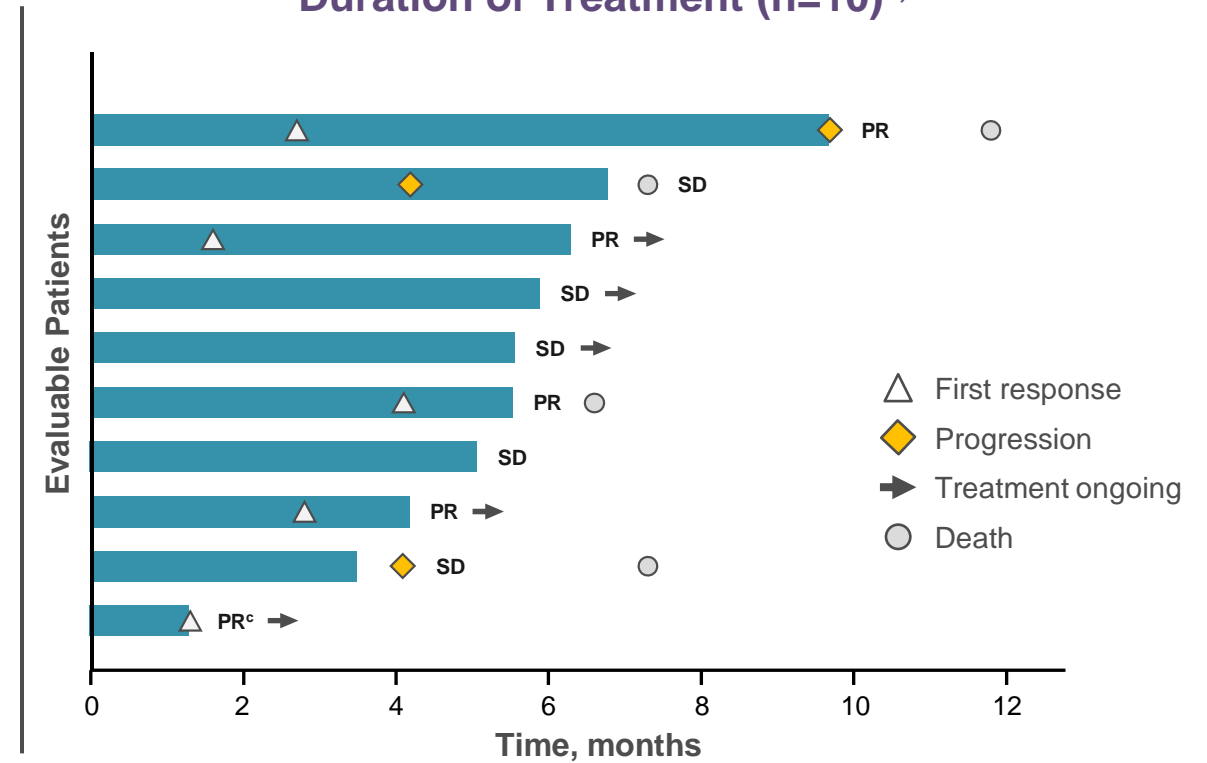
# Adagrasib in Patients With Unresectable or Metastatic PDAC: Best Tumor Change From Baseline and Duration of Treatment

Best Tumor Change From Baseline (n=10)<sup>a,b</sup>



- Response rate: 50% (5/10), including 1 unconfirmed PR
- SD: 50% (5/10 patients)
- DCR: 100% (10/10 patients)

Duration of Treatment (n=10)<sup>a,b</sup>



- Median TTR: 2.8 months
- Median DOR: 6.97 months
- Median PFS: 6.6 months (95% CI 1.0–9.7)
- Treatment ongoing in 50% (5/10) of patients

DCR, disease control rate; DOR, duration of response; PR, partial response; SD, stable disease; TTR, time to response.

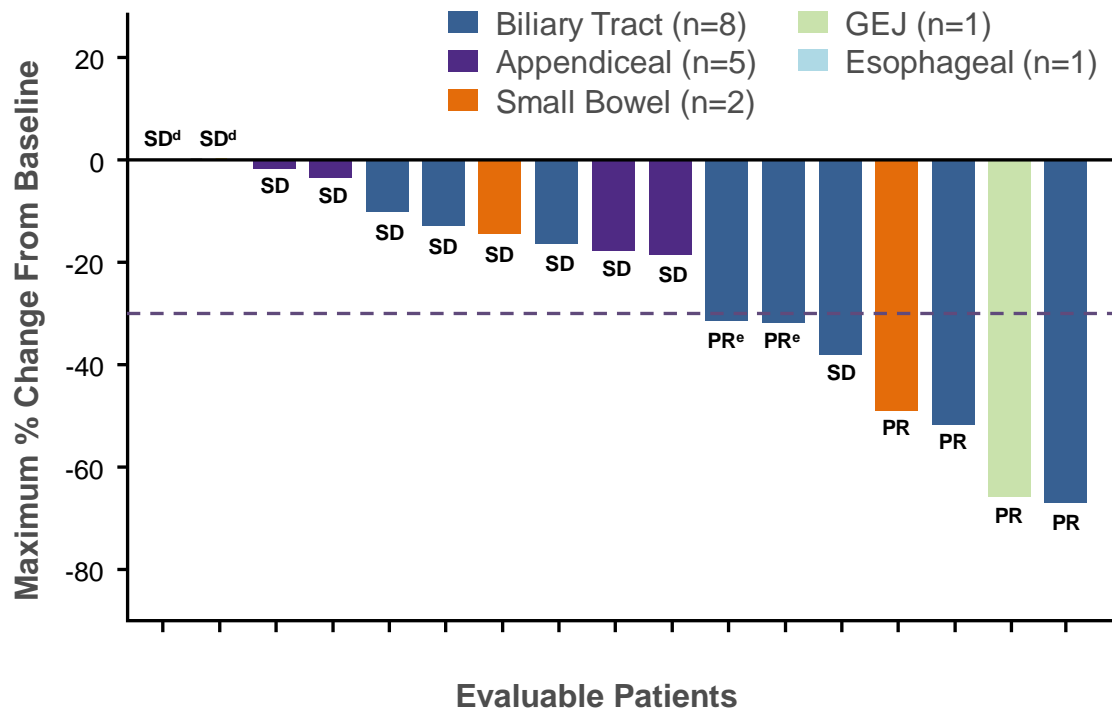
<sup>a</sup>Evaluable population (n=10) excludes 2 patients who had discontinued treatment prior to first scan due to unrelated adverse events and were not evaluable for clinical activity; <sup>b</sup>All results are based on investigator assessments;

<sup>c</sup>At data cut-off, 1 patient had unconfirmed PR.

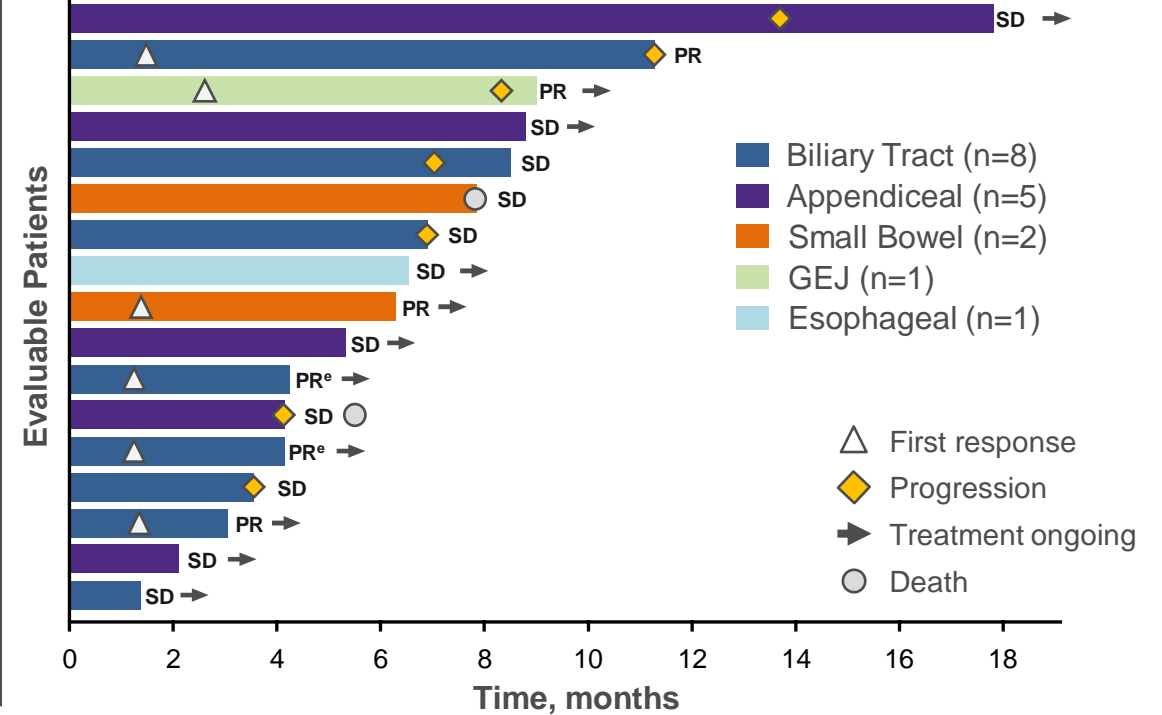
Data as of 10 Sept 2021 (median follow-up: 8.1 months).

# Adagrasib in Patients With Other GI Tumors:<sup>a</sup> Best Tumor Change From Baseline and Duration of Treatment

Best Tumor Change From Baseline (n=17)<sup>b,c</sup>



Duration of Treatment (n=17)<sup>b,c</sup>



- Response rate:
  - Biliary tract cancer: 50% (4/8), including 2 unconfirmed PRs
  - GEJ and small bowel cancer: 1 PR each
- DCR: 100% (17/17 patients)

- Median TTR: 1.3 months
- Median DOR: 7.85 months
- Median PFS: 7.85 months (95% CI 6.90–11.30)
- Treatment ongoing in 65% (11/17) of patients

DCR, disease control rate; DOR, duration of response; GEJ, gastro-esophageal junction; PR, partial response; SD, stable disease; TTR, time to response.

<sup>a</sup>Excluding CRC and PDAC; <sup>b</sup>Evaluable population (n=17) excludes 1 patient who withdrew consent prior to the first scan; <sup>c</sup>All results are based on investigator assessments; <sup>d</sup>1 patient with appendiceal cancer and 1 patient with esophageal cancer had maximum % change from baseline of 0; <sup>e</sup>At data cut-off, 2 patients had unconfirmed PR.

Data as of 10 Sept 2021 (median follow-up: 6.3 months).

# Adagrasib in Patients With Other Advanced Solid Tumors:<sup>a</sup> Incidence of Treatment-Related Adverse Events

Most Frequent TRAEs <sup>b</sup>	Overall (N=42) <sup>c</sup>		Overall GI cancers <sup>d</sup> (n=30)	
	Any Grade	Grade 3	Any Grade	Grade 3
TRAEs, %				
Any TRAEs	91	21	87	27
<b>Most frequent TRAEs, %</b>				
Nausea	48	2	50	3
Vomiting	43	0	40	0
Diarrhea	43	0	37	0
Fatigue	29	7	33	10
AST increase	19	2	20	3
Blood creatinine increase	19	0	17	0
Anemia	17	2	20	3
Peripheral edema	17	0	17	0
QT prolongation	14	5	13	7
ALT increase	12	2	13	3
Dysgeusia	12	0	13	0

- No Grade 4 or 5 TRAEs
- No TRAEs led to discontinuation

ALT, alanine aminotransferase; AST, aspartate aminotransferase; TRAE, treatment-related adverse event.

<sup>a</sup>Excluding NSCLC and CRC; <sup>b</sup>Occurring in ≥10% of patients; <sup>c</sup>Overall population included 12 other non-GI cancers (ovarian [n=4], endometrial [n=2], breast [n=1], glioblastoma [n=1], and unknown primary [n=4]); <sup>d</sup>Excluding CRC.  
Data as of 10 Sept 2021 (median follow-up: 6.3 months).



## Conclusions

- Adagrasib is a KRAS<sup>G12C</sup>-selective covalent inhibitor with a long half-life that enables exposure above a target threshold throughout the dosing interval
- Adagrasib monotherapy demonstrated promising clinical activity and 100% disease control in previously treated patients with PDAC and other GI (non-CRC) tumors harboring a KRAS<sup>G12C</sup> mutation
  - Of the tumor histologies with >5 patients evaluable, response rates for PDAC and biliary tract cancer were 50%
- Adagrasib has now demonstrated responses across multiple tumor types (NSCLC, CRC, PDAC, biliary tract, GEJ, small bowel, ovarian and endometrial cancers)<sup>1–3</sup>
- Adagrasib monotherapy is well tolerated and has a manageable safety profile
- Further exploration of adagrasib is ongoing in the KRYSTAL-1 trial (NCT03785249), and a newly initiated early access program (NCT05162443) is available to this patient population

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