O-0010

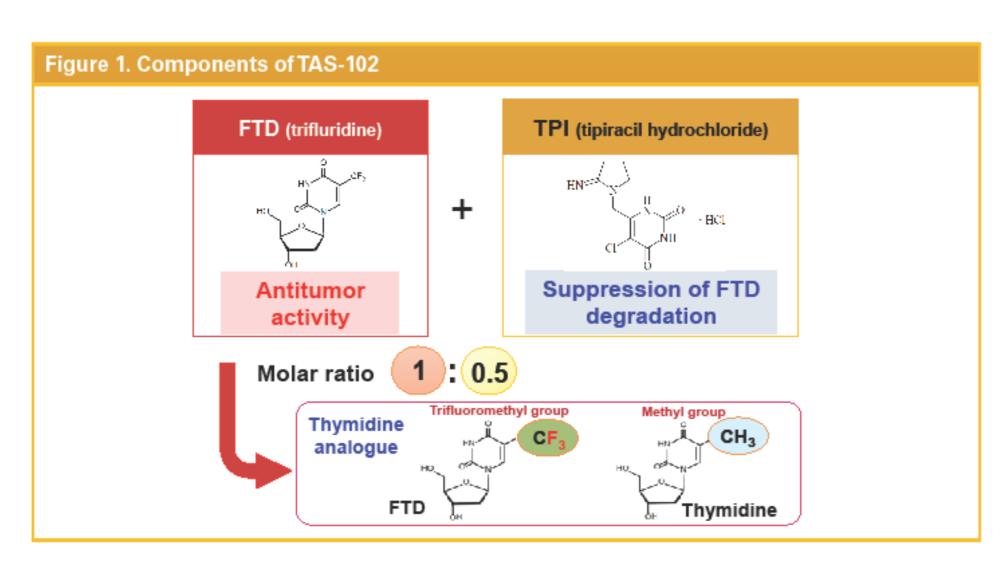
KRAS and BRAF Gene Subgroup Analysis in the Phase 3 RECOURSE Trial of TAS-102 Versus Placebo in Patients With Metastatic Colorectal Cancer

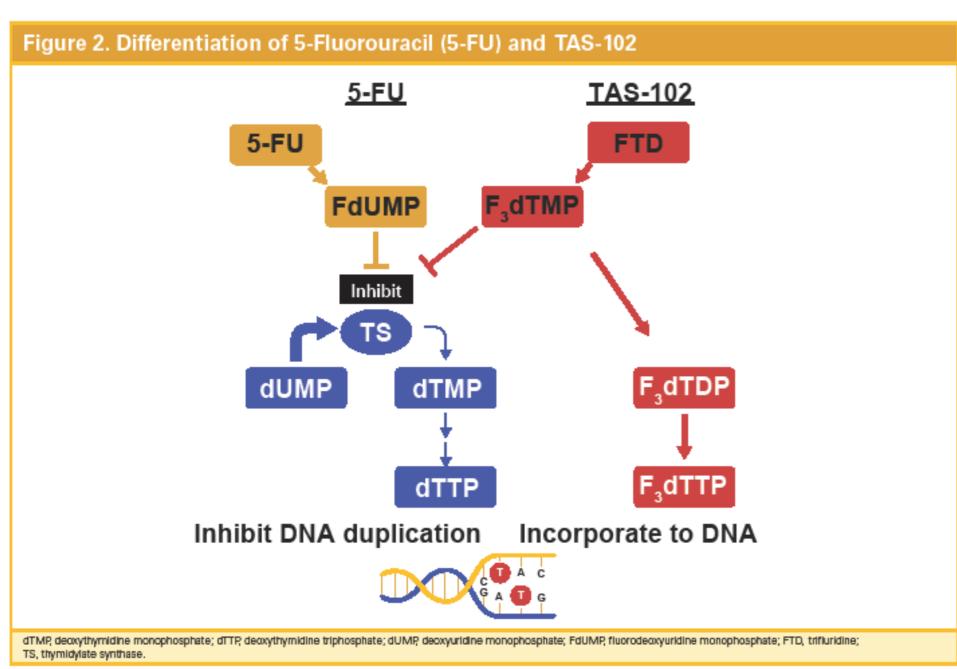
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Introduction

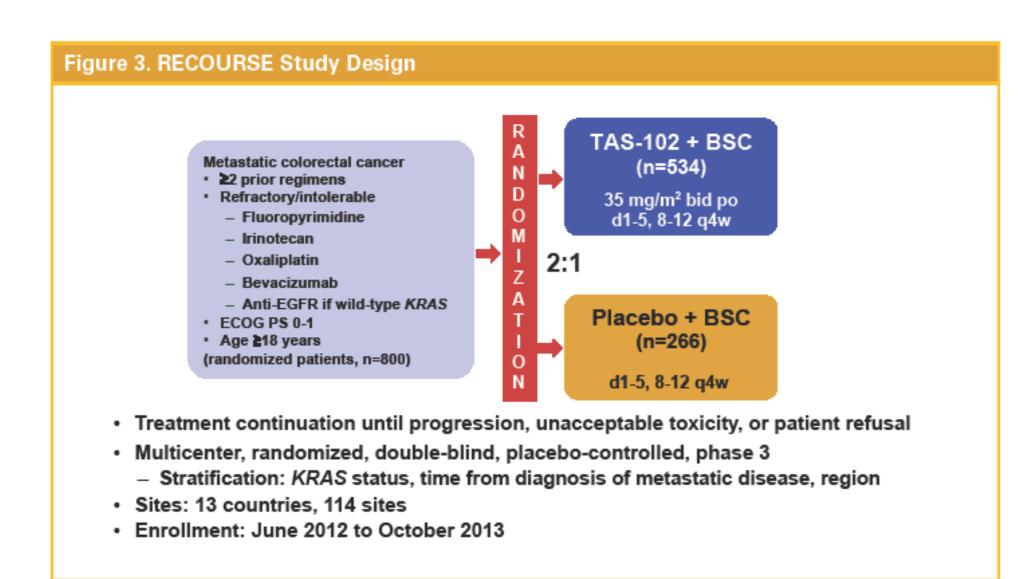
- TAS-102 is an oral combination treatment comprised of an antineoplastic thymidine-based nucleoside analogue, trifluridine (FTD), and the thymidine phosphorylase inhibitor, tipiracil hydrochloride (TPI), at a molar ratio of 1:0.5 (weight ratio, 1:0.471)
- FTD is incorporated into DNA, causing DNA dysfunction²⁻⁴
- TPI improves the bioavailability of FTD^{1,2}
- The mechanism of action (MOA) of TAS-102 is distinct from that of 5-fluorouracil (5-FU), a uracil analogue (Figure 2).
- The primary MOA of 5-FU is believed to be the inhibition of thymidylate synthase (TS), which leads to depletion of deoxythymidine triphosphate and inhibition of DNA replication^{5,6}
- In the phase 3 RECOURSE trial in patients with metastatic colorectal cancer (mCRC) refractory to standard therapies, TAS-102 ratio [HR]=0.68; P<0.0001) and progression-free survival (PFS) (2.0 vs 1.7 months; HR=0.48; P<0.0001).7
- This analysis was performed to evaluate efficacy and safety in the RECOURSE trial based on KRAS and BRAF mutation gene status as reported by investigators.





Methods

- RECOURSE was a multicenter, randomized, double-blind, placebo-controlled phase 3 trial (Figure 3).7 Eligible patients with mCRC had received ≥2 prior lines of therapy, including fluoropyrimidines, irinotecan, oxaliplatin,
- and bevacizumab, and cetuximab or panitumumab for patients with KRAS wild-type tumors The primary endpoint was OS; secondary endpoints included PFS, overall response rate, disease control rate, and safety Median OS and PFS were calculated using the Kaplan-Meier method, with corresponding 2-sided 95% confidence intervals
- Prespecified analyses of RECOURSE compared efficacy and safety of TAS-102 vs placebo in subgroups of patients who had tumors that were wild type or mutant for KRAS and BRAF; mutation status was determined according to site practice as reported by investigators.
- The primary endpoint (OS) and key secondary efficacy endpoint (PFS) were evaluated using univariate and multivariate analyses for stratification (eg, status) and prespecified (eg, status) factors.



Results

- Baseline Characteristics Of the 800 RECOURSE patients, 394 (49.3%) had KRAS wild-type tumors (63.7% male, mean age 62.0 years); 406 (50.8%) had KRAS mutant tumors (59.1% male, mean age 61.1 years) (Tables 1 and 2).
- KRAS status is per assignment on the case report form Treatment groups were well balanced with respect to KRAS status, including KRAS mutation types.

bid, twice daily; BSC, best supportive care; ECOG PS, Eastern Cooperative Oncology Group performance status; EGFR, epidermal growth factor receptor; po, by mouth.

	TAS-102 (n=534)	Placebo (n=266)	Total (N=800)
KRAS status,* n (%)			
Wild type	260 (48.7)	134 (50.4)	394 (49.3)
Mutant	274 (51.3)	132 (49.6)	406 (50.8)
KRAS mutation type, n (%)			
Codon 12	201 (37.6)	102 (38.3)	303 (37.9)
Codon 13	55 (10.3)	28 (10.5)	83 (10.4)
Other	6 (1.2)	3 (1.2)	9 (1.2)
Unknown	26 (4.9)	8 (3.0)	34 (4.3)
BRAF status, n (%)			
Wild type	75 (14.0)	41 (15.4)	116 (14.5)
Mutant	4 (0.7)	4 (1.5)	8 (1.0)
Missing	455 (85.2)	221 (83.1)	676 (84.5)

Results (cont'd)

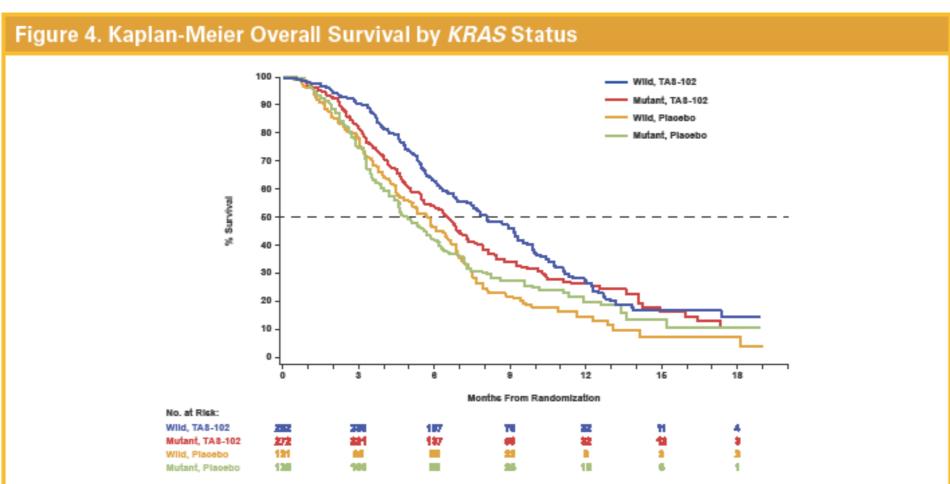
	KRAS Wild Type			KRAS Mutant		
	TAS-102 (n=260)	Placebo (n=134)	Total (N⊨394)	TAS-102 (n=274)	Placebo (n=132)	Total (N=406)
Gender, male, n (%)	168 (64.6)	83 (61.9)	251 (63.7)	158 (57.7)	82 (62.1)	240 (59.1)
Age, y, mean (SD)	62.1 (10.33)	61.6 (9.46)	62.0 (10.03)	60.9 (10.09)	61.4 (11.51)	61.1 (10.56)
Race, n (%)						
Caucasian	139 (53.5)	82 (61.2)	221 (56.1)	167 (60.9)	73 (55.3)	240 (59.1)
Black/African American	2 (0.8)	1 (0.7)	3 (0.8)	2 (0.7)	4 (3.0)	6 (1.5)
Asian	97 (37.3)	43 (32.1)	140 (35.5)	87 (31.8)	51 (38.6)	138 (34.0)
Not collected	22 (8.5)	8 (6.0)	30 (7.6)	18 (6.6)	4 (3.0)	22 (5.4)
ECOG PS, n (%)						
0	149 (57.3)	63 (47.0)	212 (53.8)	152 (55.5)	84 (63.6)	236 (58.1)
1	111 (42.7)	71 (53.0)	182 (46.2)	122 (44.5)	48 (36.4)	170 (41.9)
Time since diagnosis of first metastasis,	n (%)					
<18 months	39 (15.0)	18 (13.4)	57 (14.5)	72 (26.3)	37 (28.0)	109 (26.8)
≥18 months	221 (85.0)	116 (86.6)	337 (85.5)	202 (73.7)	95 (72.0)	297 (73.2)
Baseline renal function, n (%)						
Normal (CrCL ≥90 mL/min)	153 (58.8)	73 (54.5)	226 (57.4)	154 (56.2)	72 (54.5)	226 (55.7)
Primary tumor site, n (%)						
Colon	155 (59.6)	80 (59.7)	235 (59.6)	183 (66.8)	81 (61.4)	264 (65.0)
Rectal	106 (40.4)	54 (40.3)	159 (40.4)	91 (33.2)	51 (38.6)	142 (35.0)
Number of prior regimens, n (%)						
1	0	0	0	0	0	0
2	25 (9.6)	8 (6.0)	33 (8.4)	70 (25.5)	37 (28.0)	107 (26.4)
3	50 (19.2)	22 (16.4)	72 (18.3)	69 (25.2)	32 (24.2)	101 (24.9)
≥4	185 (71.2)	104 (77.6)	289 (73.4)	135 (49.3)	63 (47.7)	198 (48.8)
All prior systemic cancer therapeutic age		727 (7.112)		1 (1	22,1111,	122 (1212)
Bevacizumab	260 (100.0)	133 (99.3)	393 (99.7)	274 (100.0)	132 (100.0)	406 (100.0)
Cetuximab/panitumumab	262 (100.0)	131 (100.0)	393 (100.0)	16 (5.9)	13 (9.6)	29 (7.1)
Cetuximab	186 (71.5)	104 (77.6)	290 (73.6)	15 (5.5)	9 (6.8)	24 (5.9)
Panitumumab	115 (44.2)	52 (38.8)	167 (42.4)	6 (2.2)	4 (3.0)	10 (2.5)
Fluoropyrimidine*	260 (100.0)	134 (100.0)	394 (100.0)	274 (100.0)	132 (100.0)	406 (100.0)
Irinotecan	260 (100.0)	134 (100.0)	394 (100.0)	274 (100.0)	132 (100.0)	406 (100.0)
Oxaliplatin	260 (100.0)	134 (100.0)	394 (100.0)	274 (100.0)	132 (100.0)	406 (100.0)
Regorafenib	40 (15.4)	31 (23.1)	71 (18.0)	51 (18.6)	22 (16.7)	73 (18.0)
2			344 (87.3)	243 (88.7)	121 (91.7)	364 (89.7)

Efficacy

- OS favored TAS-102 vs placebo across both KRAS subgroups (Table 3; Figure 4). In the KRAS wild-type subgroup, median OS was 8.0 months with TAS-102 vs 5.7 months with placebo (HR=0.58, 95% CI,
- In the KRAS mutant subgroup, median OS was 6.5 months with TAS-102 vs 4.9 months with placebo (HR=0.80, 95% CI,
- In an exploratory analysis of treatment factor interactions using a Cox proportional hazards (CPH) model, KRAS status was not predictive of treatment outcome, with an interaction P-value=0.4213. P-value for interaction with treatment from full model plus the 2-way interaction with just the factor shown (ie, separate
- models including only 1 factor crossed with treatment) The CPH model included the following factors identified using a stepwise selection process: KRAS status, time since diagnosis of first metastasis, region, primary tumor site, Eastern Cooperative Oncology Group performance status, and
- Results for PFS also favored TAS-102 across KRAS subgroups (Table 3; Figure 5). In the KRAS wild-type subgroup, median PFS was 2.1 months with TAS-102 vs 1.7 months with placebo (HR=0.48,
- 95% CI, 0.38-0.60; P<0.0001) In the KRAS mutant subgroup, median PFS was 1.9 months with TAS-102 vs 1.8 months with placebo (HR=0.49, 95% CI,
- Disease control rate (complete response, partial response, or stable disease) was 45.8% with TAS-102 vs 21.4% with placebo in the KRAS wild-type subgroup, and 42.2% with TAS-102 vs 11.4% with placebo in the KRAS mutant subgroup (Table 4).

Table 3. Overall Survival and Progression-Free Survival: Overall RECOURSE Population and by KRAS Status

	Overall RECOURSE Population		KRASW	KRAS Wild Type		KRAS Mutant	
	TAS-102 (N=534)	Placebo (N=266)	TAS-102 (n=262)	Placebo (n=131)	TAS-102 (n=272)	Placebo (n=135)	
Median OS, months (95% CI)	7.1 (6.5-7.8)	5.3 (4.6-6.0)	8.0 (6.9-9.2)	5.7 (4.5-6.6)	6.5 (5.6-7.1)	4.9 (4.2-6.1)	
HR (95% CI)	0.68 (0.	58-0.81)	0.58 (0.	45-0.74)	0.80 (0.	63-1.02)	
P-value	<0.0	0001	<0.0	0001	0.0	712	
Median PFS, months (96% CI)	2.0 (1.9-2.1)	1.7 (1.7-1.8)	2.1 (1.9-2.7)	1.7 (1.7-1.8)	1.9 (1.9-2.1)	1.8 (1.7-1.8)	
HR (95% CI)	0.48 (0.	41-0.57)	0.48 (0.	38-0.60)	0.49 (0.	39-0.61)	
P-value	<0.0	0001	<0.0	0001	<0.0	0001	
CI, confidence interval; HR, hazard ratio; OS, overall sur	vival; PFS, progression-f	ree survival.					



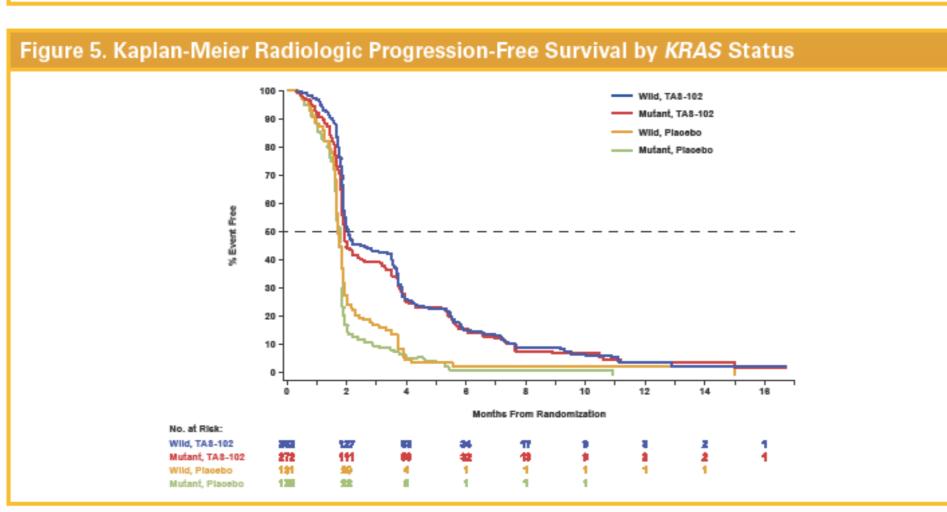


Table 4. Best Overall Response According to KRAS Status				
	KRAS	Wild Type	KRAS	/lutant
	TAS-102 (n=253)	Placebo (n=126)	TAS-102 (n=249)	Placebo (n=132)
Best overall response, n (%)				
Complete and partial response	7 (2.8)	1 (0.8)	1 (0.4)	0
Disease control rate*	116 (45.8)	27 (21.4)	105 (42.2)	15 (11.4)
*Disease control rate = complete response + partial response + stable disease.				

- There were no overall differences in incidence of adverse events (AEs), grade ≥3 AEs, or serious AEs for patient subgroups based on KRAS status (Table 5).
- In the TAS-102 group, patients with KRAS mutant vs KRAS wild-type tumors had a higher incidence (≥5%) of diarrhea (35.2%) vs 28.5%), asthenia (21.6% vs 14.6%), and decreased appetite (43.2% vs 34.6%); patients with KRAS wild-type vs KRAS mutant tumors had a higher incidence of neutropenia (41.7% vs 34.2%), leukopenia (24.3% vs 18.6%), and thrombocytopenia In the TAS-102 group, there was an increase in hematologic AEs for patients with KRAS wild-type vs KRAS mutant tumors;
- the difference was significant for thrombocytopenia and borderline for febrile neutropenia, anemia, and neutropenia based
- Dose intensity was similar for patients with KRAS wild-type and mutant tumors (Table 8).

Table 5. Adverse Events by KRAS Status (As-Treated Population)					
	KRASW	/ild Type	KRAS	Mutant	
'	TAS-102 (n=260)	Placebo (n=133)	TAS-102 (n=273)	Placebo (n=132)	
Any AE, n (%)	258 (99.2)	124 (93.2)	266 (97.4)	123 (93.2)	
Grade ≥3 AEs, n (%)	177 (68.1)	69 (51.9)	193 (70.7)	68 (51.5)	
Serious AEs, n (%)	84 (32.3)	42 (31.6)	74 (27.1)	47 (35.6)	

	KRASW	ild Type	KRAS Mutant		
	TAS-102 (n=260)	Placebo (n=133)	TAS-102 (n=273)	Placebo (n=132)	
Most common AEs (≥15% in any TAS	-102 group), n (%)				
Nausea	126 (48.5)	31 (23.3)	132 (48.4)	32 (24.2)	
Fatigue	91 (35.0)	29 (21.8)	97 (35.5)	33 (25.0)	
Decreased appetite	90 (34.6)	41 (30.8)	118 (43.2)	37 (28.0)	
Diarrhea	74 (28.5)	19 (14.3)	96 (35.2)	14 (10.6)	
Pyrexia	42 (16.2)	21 (15.8)	56 (20.5)	16 (12.1)	
Asthenia	38 (14.6)	17 (12.8)	59 (21.6)	13 (9.8)	
aboratory abnormalities,* n (%)					
Neutropenia ^b	108 (41.7)	0	92 (34.2)	0	
Leukopenia ^b	63 (24.3)	0	50 (18.6)	0	
Lymphocytopenia ^c	59 (23.0)	11 (8.5)	53 (20.0)	15 (11.4)	
Anemia ^b	55 (21.2)	6 (4.6)	41 (15.2)	2 (1.5)	
Thrombocytopenia ^b	20 (7.7)	1 (0.8)	7 (2.6)	0	

	KRAS Wild Type (n=260)	KRAS Mutant (n=273)	RR Mutant vs Wild Typ (95% CI)
Grade ≥3 hematologic events, n (%)			
Clinical findings			
Febrile neutropenia	14 (5.4)	6 (2.2)	0.41 (0.16-1.05)
Laboratory abnormalities			
Anemia	55 (21.2)	41 (15.2)	0.71 (0.49-1.02)
Neutropenia	108 (41.7)	92 (34.2)	0.81 (0.65-1.01)
Thrombocytopenia	20 (7.7)	7 (2.6)	0.33 (0.14-0.78)
Grade ≥3 nonhematologic events, n (%)			
Clinical findings			
Asthenia	6 (2.3)	12 (4.4)	1.90 (0.73-5.00)
Decreased appetite	9 (3.5)	10 (3.7)	1.06 (0.44-2.56)
Diarrhea	7 (2.7)	9 (3.3)	1.22 (0.46-3.24)
Fatigue	10 (3.8)	11 (4.0)	1.05 (0.45-2.43)
Vomiting	8 (3.1)	3 (1.1)	0.36 (0.10-1.33)
Laboratory investigations			
AST increased	10 (3.9)	13 (4.9)	1.24 (0.55-2.77)
Alkaline phosphatase increased	19 (7.3)	23 (8.6)	1.15 (0.64-2.07)
Bilirubin increased	26 (10.1)	19 (7.1)	0.70 (0.39-1.23)
Potassium decreased	10 (3.9)	5 (1.9)	0.48 (0.16-1.37)
Any grade nonhematologic events, n (%)			
Cardiac (arrhythmic)	8 (3.1)	7 (2.6)	0.83 (0.31-2.27)
Thromboembolic events (arterial and venous)	12 (4.6)	9 (3.3)	0.71 (0.31-1.67)

	KRASV	/ild Type	KRAS I	Mutant
	TAS-102 (n=260)	Placebo (n=133)	TAS-102 (n=273)	Placebo (n=132)
Total dose administered, mg/m², mean (SD)	2355.1 (1744.86)	1565.5 (1120.39)	2152.3 (1601.64)	1448.4 (917.64)
Dose intensity, mg/m²/week, a mean (SD)	155.36 (17.629)	165.42 (16.248)	154.76 (21.989)	165.09 (16.844)
Relative dose intensity (ratio to planned), mean (SD)	0.888 (0.1007)	0.945 (0.0928)	0.884 (0.1257)	0.943 (0.0963)

BRAF Wild Type and Mutant

*P=0.7284 (t-test) comparing dose intensity (mg/m²/week) of mutant and wild type.

- BRAF status was provided for ~15% of intention-to-treat patients: 116 (14.5%) had BRAF wild-type tumors and 8 (1.0%) had BRAF mutant tumors (Tables 1 and 9).
- The small number of patients with BRAF status identified, especially BRAF mutant, precludes any meaningful analysis of OS
- The small BRAF status sample size makes it difficult to draw any conclusions regarding differences in incidence of AEs (Table 11) or clinical laboratory aphormalities

		BRAF Wild Type		BRAF Mutant		
	TAS-102 (n=75)	Placebo (n=41)	Total (N=116)	TAS-102 (n=4)	Placebo (n=4)	Tota (N=8
Gender, male, n (%)	52 (69.3)	26 (63.4)	78 (67.2)	2 (50.0)	2 (50.0)	4 (50
Age, y, mean (SD)	60.7 (11.45)	60.3 (10.60)	60.5 (11.11)	53.8 (17.31)	65.0 (8.76)	59.4 (14
Race, n (%)						
Caucasian	47 (62.7)	28 (68.3)	75 (64.7)	4 (100.0)	4 (100.0)	8 (100
Black/African American	2 (2.7)	0	2 (1.7)	0	0	0
Asian	12 (16.0)	8 (19.5)	20 (17.2)	0	0	0
Not collected	14 (18.7)	5 (12.2)	19 (16.4)	0	0	0
ECOG PS, n (%)						
0	47 (62.7)	23 (56.1)	70 (80.3)	2 (50.0)	2 (50.0)	4 (50
1	28 (37.3)	18 (43.9)	46 (39.7)	2 (50.0)	2 (50.0)	4 (50
KRAS status,* n (%)						
Wild type	42 (56.0)	26 (63.4)	68 (58.6)	3 (75.0)	2 (50.0)	5 (62
Mutant	33 (44.0)	15 (36.6)	48 (41.4)	1 (25.0)	2 (50.0)	3 (37
Time since diagnosis of first metastasis,	n (%)					
<18 months	21 (28.0)	8 (19.5)	29 (25.0)	1 (25.0)	2 (50.0)	3 (37
≥18 months	54 (72.0)	33 (80.5)	87 (75.0)	3 (75.0)	2 (50.0)	5 (62
Baseline renal function, n (%)						
Normal (CrCL ≥90 mL/min)	49 (65.3)	24 (58.5)	73 (62.9)	3 (75.0)	1 (25.0)	4 (50
Primary tumor site, n (%)						
Colon	42 (56.0)	23 (56.1)	65 (56.0)	0	4 (100.0)	4 (50
Rectal	33 (44.0)	18 (43.9)	51 (44.0)	4 (100.0)	0	4 (50
Number of prior regimens, ^c n (%)						
1	0	0	0	0	0	0
2	15 (20.0)	4 (9.8)	19 (16.4)	0	0	0
3	17 (22.7)	6 (14.6)	23 (19.8)	0	2 (50.0)	2 (25
≥4	43 (57.3)	31 (75.6)	74 (63.8)	4 (100.0)	2 (50.0)	6 (75
All prior systemic cancer therapeutic age						
Bevacizumab	75 (100.0)	41 (100.0)	116 (100.0)	4 (100.0)	4 (100.0)	8 (100
Cetuximab	38 (50.7)	24 (58.5)	62 (53.4)	3 (75.0)	1 (25.0)	4 (50
Panitumumab	12 (16.0)	11 (26.8)	23 (19.8)	1 (25.0)	1 (25.0)	2 (25
Fluoropyrimidine*	75 (100.0)	41 (100.0)	116 (100.0)	4 (100.0)	4 (100.0)	8 (100
Irinotecan	75 (100.0)	41 (100.0)	116 (100.0)	4 (100.0)	4 (100.0)	8 (100
Oxaliplatin	75 (100.0)	41 (100.0)	116 (100.0)	4 (100.0)	4 (100.0)	8 (100
Regorafenib	18 (24.0)	13 (31.7)	31 (26.7)	0	1 (25.0)	1 (12
Other	63 (84.0)	34 (82.9)	97 (83.6)	4 (100.0)	4 (100.0)	8 (100

	BRAF Wild Type		BRAF Mutant	
	TAS-102 (n=75)	Placebo (n=41)	TAS-102 (n=4)	Placebo (n=4)
Median OS, months (95% CI)	6.1 (5.2-9.7)	5.5 (3.9-7.0)	5.4 (2.2-6.2)	NR (0.8-NR)
HR (95% CI)	0.73 (0.	44-1.18)	0.58 (0.0	3-10.25)
P-value	0.19	963	0.70	066
Median PFS, months (96% CI)	1.9 (1.8-2.1)	1.7 (1.6-1.8)	1.5 (1.0-2.0)	1.7 (0.8-1.9)
HR (95% CI)	0.56 (0.3	36-0.88)	0.58 (0.0	3-10.25)
P-value	0.0	110	0.70	066

"Fluoropyrimidine" includes 5-FU-containing agents fluorouracii, capecitabine, doxifluridine, S-1, tegafur, and UFT.

BRAF Wild Type BRAF Mutant				
	TAS-102 (n=75)	Placebo (n=40)	TAS-102 (n=4)	Placebo (n=4)
Any AE, n (%)	75 (100.0)	40 (100.0)	4 (100.0)	4 (100.0)
Grade ≥3 AEs, n (%)	50 (66.7)	19 (47.5)	2 (50.0)	2 (50.0)
Serious AEs, n (%)	25 (33.3)	11 (27.5)	1 (25.0)	0

Conclusions

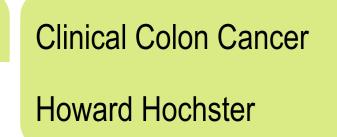
1-4 July 2015; Barcelona, Spain.

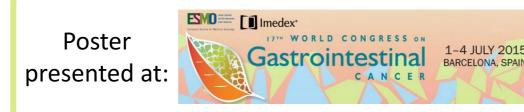
 In the RECOURSE study, improvements in overall survival (OS) and progression-free survival (PFS) were observed in patients
with KRAS wild-type and mutant tumors who received TAS-102 vs placebo, with a favorable safety profile. While the effect on PFS was the same for KRAS wild-type and mutant groups, the OS shows a more pronounced effect on wild-type with a hazard ratio of 0.6 and 0.8, respectively. Although similar results were seen for OS and PFS with respect to BRAF status, the small patient sample size precludes

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