

Subgroup analyses of safety and efficacy by number and types of prior lines of treatment in FRESKO-2, a global phase 3 study of fruquintinib in patients with refractory metastatic colorectal cancer

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BACKGROUND

- Effective treatment options are limited for patients with refractory metastatic colorectal cancer (mCRC)
- Fruquintinib is a highly selective, potent, oral tyrosine kinase inhibitor of all 3 VEGF receptors (VEGFR-1, -2, and -3) with weak or no inhibitory effect on other receptor kinases¹
- A statistically significant and clinically meaningful improvement in overall survival (OS) and progression-free survival (PFS) with an acceptable and tolerable safety profile was demonstrated with fruquintinib + best supportive care (BSC) vs placebo + BSC in the global phase 3 FRESKO-2 study (NCT04322539)²
- Here we report subgroup analyses of efficacy and safety by prior lines of treatment (LOT) and types of anti-cancer treatment for metastatic disease

METHODS

- FRESKO-2 was conducted in the US, Europe, Japan, and Australia, comparing fruquintinib + BSC vs placebo + BSC in patients with mCRC
- Eligible patients had received all standard treatments, including fluoropyrimidine-, oxaliplatin- and irinotecan-based chemotherapy, anti-VEGF therapy, anti-EGFR therapy (if RAS wild type), and trifluridine/tipiracil or regorafenib
 - Patients with MSI-high or MMR-deficient tumors or BRAFV600E-mutant tumors must have also received an immune checkpoint inhibitor or BRAF inhibitor, respectively
- Randomization was stratified by prior treatment (trifluridine/tipiracil vs regorafenib vs both), RAS mutation status (wild type vs mutant), and duration of metastatic disease (≤18 months vs >18 months)
- Patients were grouped according to number of prior LOT (≤4 vs >4, based on a median of 4 prior LOT); efficacy and safety data were analyzed according to these subgroups, as well as according to type of prior anti-cancer treatment received (anti-VEGF, anti-EGFR, regorafenib, TAS-102)

RESULTS

Patients and prior anti-cancer treatment

- A total of 691 patients were randomized and 686 patients received at least one dose of study drug
- The median number of prior lines of anti-cancer treatment for metastatic disease was 4 (range 2–16) for patients in the fruquintinib + BSC arm and 4 (range 2–12) for patients in the placebo + BSC arm
- Baseline characteristics were balanced between arms in patients who had received ≤4 prior LOT and in patients who had received >4 prior LOT (**Table 1**)

Table 1. Patient demographics and baseline characteristics by number of prior lines of anti-cancer treatment for metastatic disease (ITT population)					
Characteristic, n (%)	≤4 prior LOT (n=370)		>4 prior LOT (n=321)		
	Fruquintinib + BSC n=247	Placebo + BSC n=123	Fruquintinib + BSC n=214	Placebo + BSC n=107	
Age	Median years (range)	64 (25–82)	63 (30–82)	63 (31–81)	65 (35–86)
	≥65 years	114 (46.2)	55 (44.7)	100 (46.7)	56 (52.3)
Sex	Female	127 (51.4)	45 (36.6)	89 (41.6)	45 (42.1)
	Male	120 (48.6)	78 (63.4)	125 (58.4)	62 (57.9)
ECOG PS	0	111 (44.9)	63 (51.2)	85 (39.7)	39 (36.4)
	1	136 (55.1)	60 (48.8)	129 (60.3)	68 (63.6)
Primary site at 1 st diagnosis	Colon, left	102 (41.3)	49 (39.8)	90 (42.1)	43 (40.2)
	Colon, right	57 (23.1)	33 (26.8)	40 (18.7)	20 (18.7)
	Colon, left and right	3 (1.2)	1 (0.8)	1 (0.5)	1 (0.9)
	Colon, unknown	14 (5.7)	6 (4.9)	11 (5.1)	7 (6.5)
Liver metastases	Rectum only	71 (28.7)	34 (27.6)	72 (33.6)	36 (33.6)
	Yes	181 (73.3)	83 (67.5)	158 (73.8)	73 (68.2)
Duration of metastatic disease	≤18 months	37 (15.0)	12 (9.8)	0	1 (0.9)
	>18 months	210 (85.0)	111 (90.2)	214 (100)	106 (99.1)
RAS status	Wild type	77 (31.2)	36 (29.3)	93 (43.5)	49 (45.8)
	Mutant	170 (68.8)	87 (70.7)	121 (56.5)	58 (54.2)
Type of prior anti-cancer treatment	VEGF biologics	233 (94.3)	115 (93.5)	212 (99.1)	106 (99.1)
	EGFR biologics	77 (31.2)	36 (29.3)	103 (48.1)	52 (48.6)
	Regorafenib	31 (12.6)	14 (11.4)	9 (4.2)	4 (3.7)
	TAS-102	162 (65.6)	88 (71.5)	78 (36.4)	33 (30.8)
	Regorafenib and TAS-102	54 (21.9)	21 (17.1)	127 (59.3)	70 (65.4)

ECOG PS, Eastern Cooperative Oncology Group performance status; ITT, intent-to-treat

