### ORIGINAL ARTICLE GI Cancers

# Practice patterns and outcomes with the use of regorafenib in metastatic colorectal cancer: Results from the Regorafenib in Metastatic colorectal cancer - An Indian exploratory analysis study

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#### **Abstract**

Background: Regorafenib is considered a standard of care as third-line therapy in metastatic colorectal cancers (mCRCs). Materials and Methods: The study was based on a computerized clinical data form sent to oncologists across the country for entry of anonymized patient data. The data entry form was conceived and generated by the coordinating center's (Tata Memorial Hospital) gastrointestinal medical oncologists and disseminated through personal contacts at academic conferences as well as through E-mail to various oncologists across India. Results: A total of 19 physicians contributed data resulting in 80 patients receiving regorafenib who were available for the evaluation of practice patterns. The median age was 55 years (range: 24–75). Majority had received oxaliplatin-based (97.5%), irinotecan-based (87.5%), and targeted therapy (65%), previously. Patients were primarily started on reduced doses of regorafenib upfront (160 mg – 28.8%, 120 mg – 58.8%, and 80 mg – 12.5%). The median duration of treatment (treatment duration) with regorafenib was 3.1 months (range: 0.5–18), while the median progression free survival was 3.48 months (range: 2.6–4.3). Forty-five percent of patients required dose modifications due to toxicities, and the most common were (all grades) hand-foot syndrome (68.8%), fatigue (46.3%), mucositis (37.6%), and diarrhea (31.3%). Conclusions: Majority of physicians in this collaborative study from India used a lower dose of regorafenib at the outset in patients with mCRC. Despite a lower dose, there was a significant requirement for dose reduction. Duration of treatment with regorafenib as an efficacy end point in this study is similar to available data from other regions as it is the side effect profile.

Key words: Colorectal cancer, India, REgorafenib in metastatic colorectal cancer - An Indian eXploratory analysis study, regorafenib

### Introduction

Regorafenib is considered as standard of care in patients with metastatic colorectal cancers (mCRC) posttreatment with oxaliplatin-based and irinotecan-based regimens. This is based on two seminal trials, Patients with metastatic COloRectal cancer treated with REgorafenib or plaCebo after failure of standard therapy (CORRECT) and Regorafenib plus best supportive care versus placebo plus best supportive care in Asian patients with previously treated metastatic colorectal cancer (CONCUR), which compared regorafenib with placebo and showed a statistically significant benefit in overall survival (OS).<sup>[1,2]</sup>

Postpublication of these studies, there have been multiple series from various countries which have shown outcomes which largely matched those seen with the initial studies. A meta-analysis published recently comprising 702 patients and 12 studies confirmed the magnitude of benefits with regorafenib as well as side effect profile as being similar to the phase III data.<sup>[3]</sup> A majority of these studies have also shown that a major limiting factor with the use of regorafenib has been its toxicity and side effect profile, specifically the degree of hand-foot syndrome (HFS),

Department of Medical Oncology, Tata Memorial Hospital, Mumbai, Maharashtra, <sup>1</sup>Department of Medical Oncology, Dr. B. R.A IRCH, AlIMS, New Delhi, <sup>2</sup>Department of Medical Oncology, HCG, <sup>3</sup>Department of Medical Oncology, Sri Shankara Cancer Hospital, <sup>9</sup>Department of Medical Oncology, Columbia Asia Hospital, Bengaluru, Karnataka, <sup>4</sup>Department of Medical Oncology, Yashoda Cancer Institute, Hyderabad, Telangana, <sup>5</sup>Saroj Gupta Cancer Centre and Research Institute, <sup>11</sup>Department of Oncology, Netaji Subhash Chandra Bose Cancer Research Institute, <sup>13</sup>Saroj Gupta Cancer Center and Research Institute, Kolkata, West Bengal, <sup>12</sup>Department of Oncology, Sanjeevani CBCC USA Cancer Hospital, Raipur, Chhattisgarh, <sup>6</sup>Department of Gastroenterology and Hepatology, Healthway Hospitals, Panjim, Goa, <sup>7</sup>Thangam Cancer Center, Namakkal, <sup>8</sup>Kovai Medical Center and Hospital, Coimbatore,



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Tamil Nadu, <sup>10</sup>Department of Medical Oncology, Max Superspeciality Hospital, Dehradun, Uttarakhand, India **Correspondence to:** Dr.Vikas Ostwal, E-mail: dr.vikas.ostwal@gmail.com fatigue, and diarrhea. Small, single-arm studies have suggested that starting regorafenib at lower doses may improve the toxicity profile, while maintaining symptomatic and survival benefit.<sup>[4]</sup> There is also emerging evidence which shows that the presence of skin rash and hypothyroidism may statistically correlate with improved OS.<sup>[5]</sup> The conundrum of juggling modest clinical benefits with a troublesome side effect profile with regorafenib in routine clinical practice remains unanswered.

Keeping the above factors in mind, we planned a study with the primary objective of evaluating how clinicians in India used regorafenib in their setting and whether their methods of usage corresponded to available data. Secondary objectives included an assessment of side effect and toxicity patterns with regorafenib, the need for dose modifications, and an assessment of outcomes with regorafenib as reported by clinicians.

### **Materials and Methods**

### Clinical record form

A clinical record form for anonymized patient data entry was created by the gastrointestinal (GI) medical oncologists of the coordinating center (Tata Memorial Hospital) based on their estimation of data required for the evaluation of regorafenib in clinical practice. The entry form was divided into five domains:

- 1. Demographic details
- 2. Information on disease
- 3. Prior treatment history
- 4. Treatment details with regorafenib
- 5. Adverse event profile with regorafenib.

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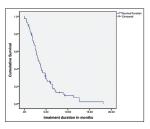


Figure 1: Treatment duration in months

The details of each domain are detailed in the supplementary index 1.

### Distribution of clinical record form

The CRF was distributed online for anonymized patient data entry. The form was designed on Google forms (Google, Mountain View, CA, USA). Clinicians were identified from a database maintained in the GI medical oncology information system as well as through personal contacts. Individual and group E-mails with a link to the online CRF were sent to these physicians, and they were requested to reply from April 12, 2017, onward to December 31, 2017.

All responses were recorded electronically and translated into a Google spreadsheet, which was used for analysis. In case of missing data, clinicians were requested to supply the same where available by E-mail responses.

### **Ethics**

The data collection and handling was conducted as per the ethical guidelines of the Declaration of Helsinki. [6] It was a retrospective analysis of prospective database, and hence, consent was not taken.

### Sample size

Convenience sampling was used for this study as we did not know what the response rates to the study would be. Formal sample size calculations were not performed.

### Statistical analysis

Data were converted for entry in SPSS software (IBM) version 21 and used for analysis. Descriptive statistics including median, frequency, and percentage for categorical variables are used. Duration of treatment on regorafenib was calculated from the date of starting treatment with regorafenib to the date of permanent cessation of regorafenib and was labeled as treatment duration (TD), and this was considered as a surrogate for event-free survival. Median progression-free survival was defined as survival from the start of regorafenib to clinicoradiological progression and was calculated using Kaplan–Meier estimates.

### Results

## Baseline demographic and preclinical characteristics [Table 1]

A total of 80 patient data were uploaded by clinicians and available for analysis. Median age was 55 years (range: 24–75), and majority were male patients (63.8%).

Pathologically, most patients have moderately differentiated cancers (43.8%), with signet-ring histology being 12.5% and mucinous histology being 20%. RAS (RAt Sarcoma virus) status was reported in 56.3% of patients with more patients having RAS wild-type (33.8%; n = 80) tumors. BRAF status and mismatch repair (MMR) status were determined only in a minority of patients (11.3% for both).

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Table 1: Baseline demographic and preclinical characteristics

Characteristics	Number		
	(percentage where feasible)		
Median age (years)	55 years (range: 24-75)		
Gender			
Male	51 (63.8)		
Female	29 (36.2)		
Baseline comorbidities			
Hypertension	20 (25)		
Diabetes mellitus	14 (17.5)		
Cardiac dysfunction	1 (1.3)		
Pathological details			
Degree of differentiation			
Adenocarcinoma NOS	13 (16.3)		
Well-differentiated	7 (8.8)		
adenocarcinoma			
Moderately differentiated	35 (43.8)		
carcinoma			
Poorly differentiated carcinoma	25 (31.3)		
Signet-ring histology			
Yes	10 (12.5)		
No	55 (68.8)		
Not available	15 (18.8)		
Mucinous histology			
Yes	16 (20)		
No	52 (65)		
Not available	12 (15)		
Molecular markers			
All RAS status			
Wild type	27 (33.8)		
Mutant	18 (22.5)		
Not available	35 (43.8)		
BRAF status			
Wild type	0		
Mutant	9 (11.3)		
Not available	71 (88.8)		
MMR protein status			
MMR deficient	4 (5)		
MMR proficient	5 (6.3)		
Not available	71 (88.8)		

MMR=Mismatch repair, NOS=Not otherwise specified, RAS=RAt Sarcoma virus

### Baseline tumor-related and prior treatment-related details

Common sites of the primary tumor were left sided (nonrectal) (35%) and rectal tumors (35%), with most patients having metastatic disease at initial diagnosis (56.3%). Median lines of previous therapy were two, with 97.5% of patients and 87.5% of patients being previously treated with oxaliplatin-based and irinotecan-based chemotherapeutic regimens. Targeted therapy was offered before regorafenib in 65% of patients [Table 2].

### Use of regorafenib and response rates

Most clinicians reported starting regorafenib at lower doses than the recommended 160 mg per day dosing (80 mg – 12.5% and 120 mg – 58.8%). While on treatment, 45% of patients required further dose reductions of regorafenib. The most common causes of patients requiring dose modifications were reported as HFS (36.3%), diarrhea (13.8%), skin rash (12.5%), and fatigue (10%). Best responses were reported in 63 patients, with partial responses seen in 10% and stable disease in 27.5% of patients, respectively [Table 3].

Table 2: Baseline tumor-related and prior treatment-related details

Characteristics	n (%)
Primary site of disease	
Left sided (nonrectal)	28 (35)
Right sided	22 (27.5)
Rectum	28 (35)
NR	2 (2.5)
Baseline presentation (at initial diagnosis)	
Metastatic	45 (56.3)
Nonmetastatic	35 (43.7)
Prior curative intent treatment offered	
Yes	56 (70)
No	24 (30)
Prior systemic therapy	
Chemotherapy	
Oxaliplatin-based therapy	78 (97.5)
Irinotecan-based therapy	70 (87.5)
Metronomic therapy	5 (6.3)
Others	3 (3.8)
Targeted therapy	
Bevacizumab	27 (33.8)
Anti-EGFR directed therapy	25 (31.3)
Any use of targeted therapy	52 (65)
Prior lines of therapy	
Median	2
Range	1-4

EGFR=Epidermal growth factor receptor, NR=Not reported

### Toxicity profile and outcomes with regorafenib

Details of all toxicities reported by clinicians are reported in Table 3 with a comparison of data between the current study and the landmark trials in Table 4.<sup>[1,2]</sup> At the closure of study, 72 patients (90%) had permanently stopped regorafenib, while the remaining patients were still continuing treatment. The most common cause of cessation of regorafenib was progressive disease (75%). Twenty-five percent of patients were offered further therapy postcessation of regorafenib. The median TD and progression free survival (PFS) with regorafenib were 3.1 months (range: 0.5–18) and 3.48 (2.6–4.3) [Figure 1].

Patients were evaluated based on initial dose of regorafenib received (80, 120, or 160 mg). Duration of treatment, requirements for dose reductions, and median PFS in each cohort are detailed in Table 5. There was no statistical difference between the three groups in terms of PFS (P = 0.123).

### **Discussion**

Results seen with interventions/drugs in seminal trials form the backbone on which clinical practice is conducted. This comes with the caveats of a well-selected cohort of patients in trials with controlled/negligible comorbidities, intensive monitoring, and funding as opposed to a real-world patient's cohort. Occasionally, clinical practice and small studies may add nuances not seen with and addressed in clinical trials. This appears to be the case with regorafenib.

The current study was an attempt to evaluate the experience with regorafenib in nontrial clinical practice in India, besides obtaining an idea as to its position in the sequencing of treatment when used in mCRC. The study was conceived based on an online

Table 3: Regorafenib use, dosing, and response rates

Dose of regorafenib started (mg)         80       10 (12.5)         120       47 (58.8)         160       23 (28.8)         Regorafenib dosing during treatment       3.1 (0.5-18)         Requirement of dose reductions       36 (45)
120       47 (58.8)         160       23 (28.8)         Regorafenib dosing during treatment       3.1 (0.5-18)         Requirement of dose reductions
160 23 (28.8) Regorafenib dosing during treatment 3.1 (0.5-18) Requirement of dose reductions
Regorafenib dosing during treatment 3.1 (0.5-18) Requirement of dose reductions
Requirement of dose reductions
•
Yes 36 (45)
No 43 (53.8)
NR 1 (1.3)
Cause of dose reduction
HFS 29 (36.3)
Skin rash 10 (12.5)
Mucositis 6 (7.5)
Diarrhea 11 (13.8)
Fatigue 8 (10)
Hypertension 3 (3.8)
Liver dysfunction 2 (2.5)
Myelosuppression 2 (2.5)
Others 2 (2.5)
Response rates
Partial response 8 (10)
Stable disease 22 (27.5)
Progressive disease 33 (41.3)
NR 17 (21.3)
Reasons for cessation of regorafenib (n=72)
Progressive disease 54 (75)
Toxicities 9 (12.5)
Lost to follow-up 9 (12.5)
Offered cancer-directed therapy
postregorafenib ( <i>n</i> =72)
Yes 18 (25)
No 54 (75) HFS=Hand-foot syndrome NR=Not reported

HFS=Hand-foot syndrome, NR=Not reported

platform to facilitate easy entry of data for community- and institution-based oncologists. Despite the limited sample size of the current study, certain generalizations regarding the use of regorafenib by Indian physicians can be made.

The striking feature at baseline is the high incidence of signet-ring histology (12.5%), which is a known poor prognostic factor in CRC. The higher prevalence of signet-ring histology in Indian patients has been previously noted and is consistent with the current study.<sup>[7-9]</sup> A higher incidence of baseline metastatic disease was also seen as compared to previously published data from India (28% vs. 56.3%).<sup>[10]</sup>

majority of patients were treated oxaliplatin-based (97.5%) and irinotecan-based (87.5%) prior chemotherapy as it is considered standard before introducing regorafenib as a treatment modality. A high percentage of patients had previously received targeted therapy, either bevacizumab or cetuximab (65%). Such high rates of receipt of targeted therapy are in discordance with known rates of targeted therapy use in India for other cancers.[11] This is most likely due to a selection bias in that only patients who can afford targeted therapy received regorafenib (monthly cost of regorafenib 160 mg/day in India: US\$1160-1600) and also would opt for third-line therapy in colorectal cancers.

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Table 4: Comparison of toxicity profile across CONCUR, CORRECT, and REMIX

Toxicities of any grade	CONCUR <sup>[2]</sup>	CORRECT <sup>[1]</sup>	REMIX
HFS (%)	73	47	69
Skin rash (%)	8	26	17.6
Diarrhea (%)	18	34	31.3
Mucositis (%)	NR	27	37.6
Hypertension (%)	33	28	27.5
Vomiting (%)	NR	8	5.3
Fatigue (%)	17	47	46.3
Liver dysfunction (%)	24	9	17.5

HFS=Hand-foot syndrome, NR=Not reported, LFT=Liver function test, REMIX: REgorafenib in Metastatic colorectal cancer - an Indian eXploratory analysis, CORRECT=Patients with metastatic colorectal cancer treated with regorafenib or placebo after failure of standard therapy

Table 5: Performance of different regorafenib doses

Dose	Requiring dose reduction (%)	Median TD (months)	Median PFS	PFS range
80 mg OD ( <i>n</i> =10)	20	2.91	4.8	0.0-11.74
120 mg OD ( <i>n</i> =47)	61	2.53	2.56	1.94-3.182
160 mg OD ( <i>n</i> =23)	70	3.90	4.90	3.403-6.387

TD=Treatment duration, PFS=Progression free survival

therapy in mCRC is a largely unexplored arena. A close look at the CORRECT study reveals that 100% of patients had previously received bevacizumab, while only 60% received bevacizumab in the CONCUR study. In the current REgorafenib in Metastatic colorectal cancer - an Indian eXploratory analysis (REMIX) study, only 33.8% of patients received bevacizumab. Whether such lower use of prior bevacizumab resulted in slightly improved PFS in the CONCUR and REMIX studies with regorafenib is a point of debate (3.2 vs. 3.48 vs. 1.9 months). Such hypothesis brings to focus the possibility of using regorafenib earlier in the treatment sequencing of mCRC as it has also been postulated in the REVERCE study with cetuximab. [12]

The median duration (TD) on regorafenib and median PFS were considered by the investigators as the most appropriate measurements of efficacy for a study of this nature. The median PFS on regorafenib in this study was 3.48 months. The efficacy seen with regorafenib in this study corresponds to that seen worldwide (2.71–3.97 months). It is also similar to the efficacy seen in a smaller Indian study previously.<sup>[13]</sup>

A major focus of the current study was an assessment of the side effect profile reported by clinicians. The most common causes reported as reasons for dose modification were HFS, diarrhea, and rash. Besides HFS, most toxicities in this study appeared similar to the CORRECT study. The CONCUR study in an Asian population [Table 4] also noted a high incidence of HFS (73% vs. 68.8%), suggesting a geographical difference in toxicity profile potentially relating to specific gene polymorphisms. An important practice point we could identify from this survey was that a majority of Indian physicians used a lower dose of regorafenib when initiating treatment. Despite such a significant proportion of clinicians starting at the lower dose of regorafenib, 45% of patients required further dose reduction. Recently published data from the ReDOS study South Asian Journal of Cancer • Volume 8 • Issue 1 • January-March 2019

suggest starting patients with an 80 mg daily dose and further escalation based on tolerance. Such an approach actually improved outcomes with maintained quality of life with a lesser incidence of side effects. Whether a similar strategy for dose escalation can be used in Indian patients needs further evaluation considering the early onset and higher incidences of debilitating HFS, which may preclude or prevent dose – escalation on a weekly basis. Dose modifications leading to prolonged exposure of regorafenib may help to improvise outcomes.

The current collaborative study comprises a small cohort of patients with mCRC who have been treated by 19 clinicians with regorafenib across India. It is a true representation of practice patterns employed by clinicians and it is heartening to note that the outcomes are concordant with those seen across the world. The usage of a lower starting dose appears to be common in clinical practice, and there appears to be some evidence to suggest that there is biological plausibility for the same. The small number of patients accrued in the study is also indicative of the small numbers of patients who are feasible for this drug, based on availability and financial constraints. However, multiple caveats exist with respect to the data generated from this study. The data are based on online responses where reporting bias may exist. Follow-up postregorafenib has not been estimated in this study, which means OS data is not available.

### **Conclusions**

Majority of physicians in this collaborative study from India used a lower dose of regorafenib at the outset in patients with mCRC. Despite a lower dose, there was a significant requirement for dose reduction. Duration of treatment with regorafenib as an efficacy end point in this study is similar to available data from other regions as it is the side effect profile. The strategies used in our study and ReDOS may help to improvise outcome by prolonging the exposure to regorafenib.

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Nil.

### **Conflicts of interest**

There are no conflicts of interest.

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