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UPDATE ON FLEXIBLE DOSING OF ORAL THERAPY IN mCRC



Dr. Andrea Sartore-Bianchi, Niguarda Cancer Center, Milan, Italy

Dr. Guillem Argilés, University Hospital Barcelona, Spain

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UPDATE ON FLEXIBLE DOSING OF ORAL THERAPY IN mCRC

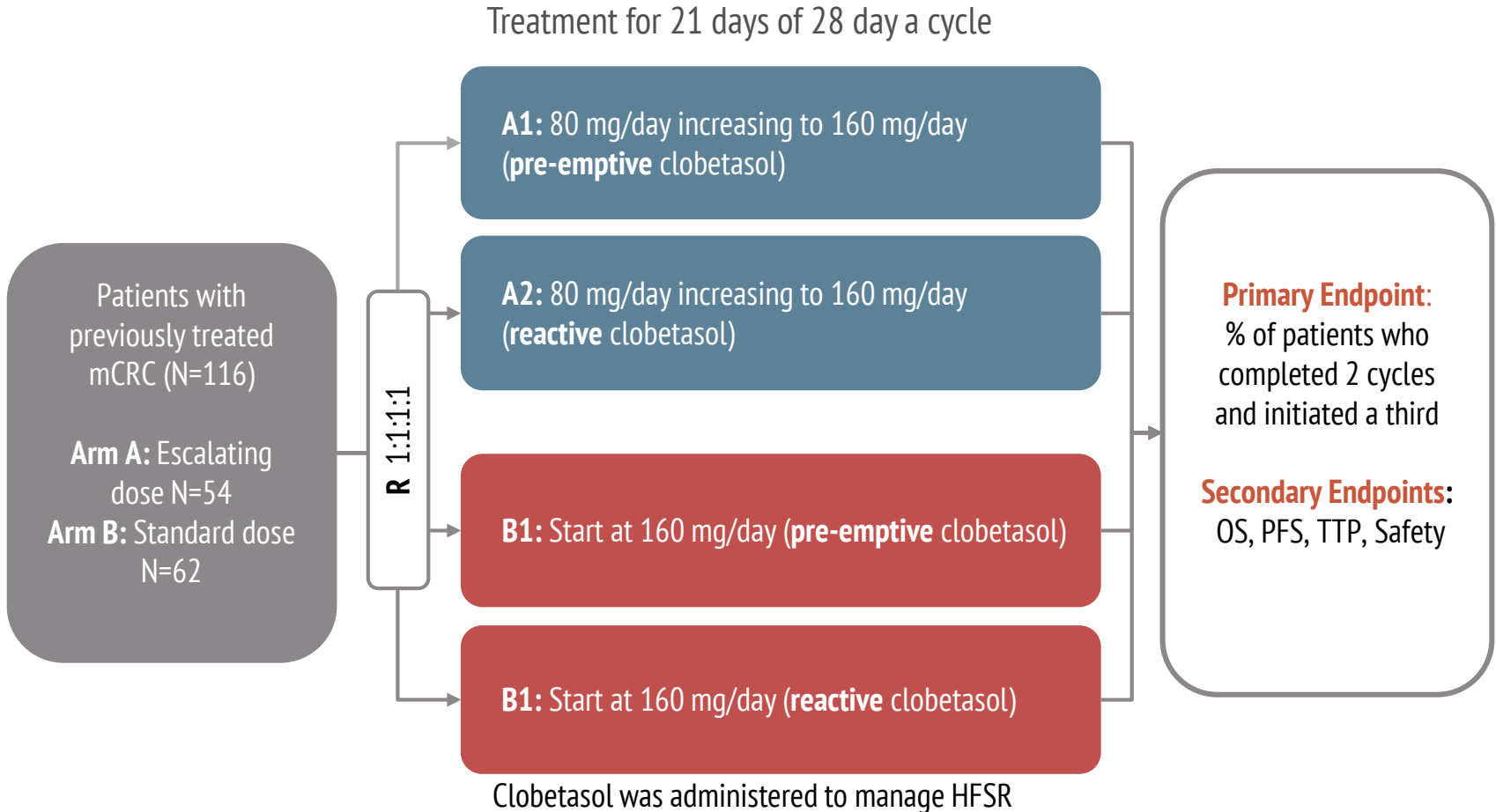
- Therapies covered in this update include
 - **Regorafenib**
 - **Capecitabine**
 - **Trifluridine/Tipiracil (TAS-102)**

**REGORAFENIB DOSE OPTIMIZATION
STUDY (ReDOS): RANDOMIZED PHASE II
TRIAL TO EVALUATE DOSING STRATEGIES
FOR REGORAFENIB IN REFRACTORY mCRC**

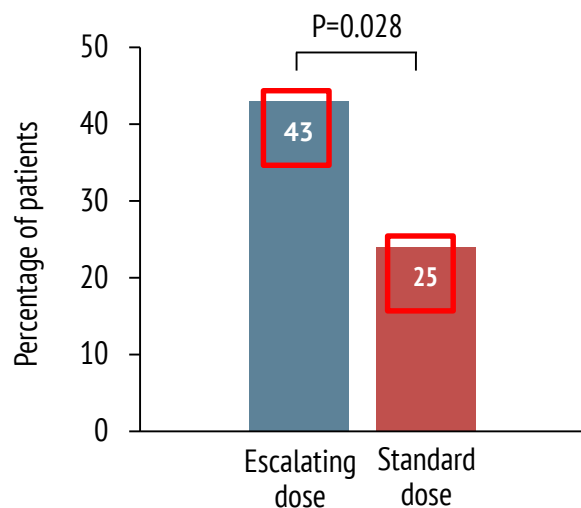
Bekaii-Saab TS, et al. J Clin Oncol. 2018;36(4 suppl):611-611

ReDOS

STUDY DESIGN



Primary endpoint: % of patients starting cycle 3

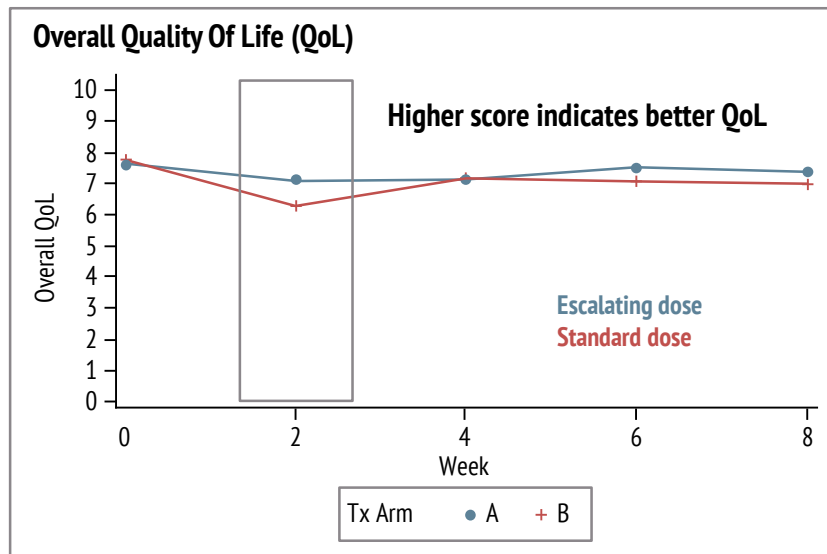


Parameter	Escalating dose N=54	Standard dose N=62	HR (95% CI) P-value
Patients starting C3, %	43	25	P=0.028
HFSR, grade 3/4, %	15	16	-
Hypertension, grade 3/4, %	7	15	-
Fatigue, grade 3/4, %	13	18	-

- Lower rate of Grade 3 or 4 AEs with the escalating dose

Other endpoints

	Escalating dose (N=54)	Standard dose (N=62)
Median OS	9.0 months	5.9 months
	HR 0.65 (95% CI 0.39–1.08)	
Median PFS	2.5 months	2.0 months
	HR 0.89 (95% CI 0.59–1.33)	



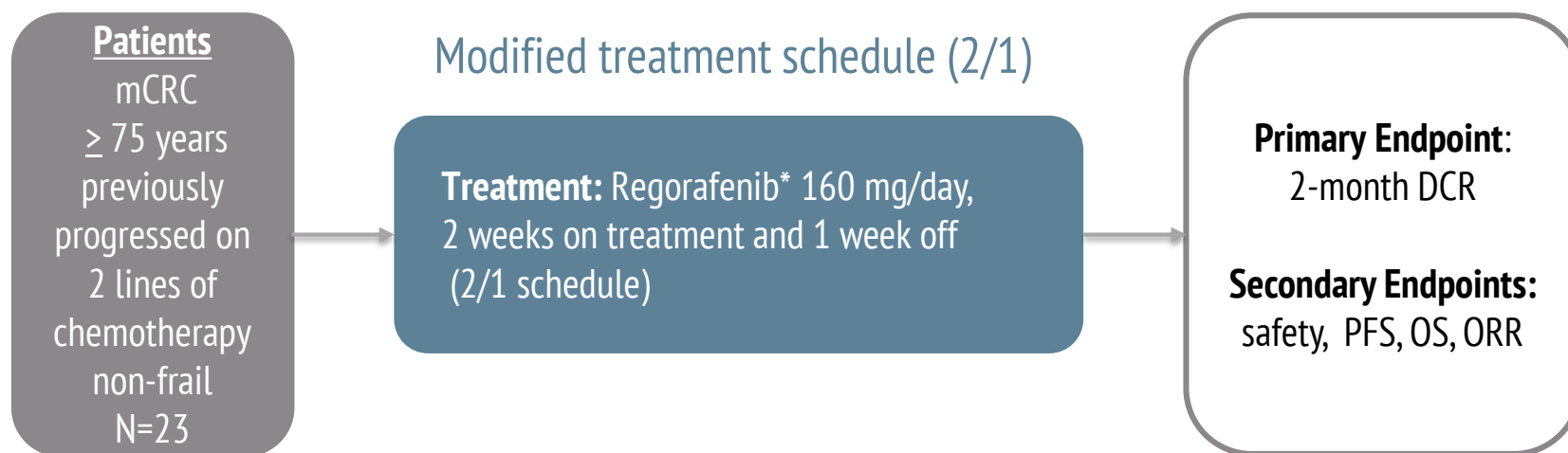
EFFICACY AND SAFETY OF REGORAFENIB WITH 2/1 SCHEDULE FOR PATIENTS \geq 75 YEARS WITH mCRC AFTER FAILURE OF 2 LINES OF CHEMOTHERAPY

Petrioli R, et al. Chemotherapy Clin Colorectal Cancer 2018;17(4):307-312

FLEXIBLE DOSING OF REGORAFENIB IN ELDERLY PATIENTS

STUDY DESIGN

Prospective, single arm study



*Starting dose was reduced to 120 mg in patients considered vulnerable or with >1 comorbidity, and 80 mg in patients ≥80 years old or with an ECOG PS of 2

FLEXIBLE DOSING OF REGORAFENIB IN ELDERLY PATIENTS

RESULTS

- **DCR:** more than one-half (52.2%) of the patients obtained disease stabilisation, with no patients achieving a PR or CR
- Both median **OS** (8.9 months) and **PFS** (4.8 months) compared well with those observed in the CORRECT¹ study
- Most common Grade 3 AEs were HFSR (9%) and fatigue (9%). AEs led to dose reductions and discontinuation in 5 and 2 patients respectively
- A modified 2/1 schedule of regorafenib combined with an initially personalised starting dose might be safely proposed for selected non-frail patients aged ≥ 75 years with treatment refractory mCRC

FLEXIBLE DOSING OF REGORAFENIB

SUMMARY

- In the CORRECT¹ and CONCUR², regorafenib was shown to prolong survival of patients with treatment-refractory mCRC. However, **regorafenib-related Aes led to treatment modification in the majority of patients (67%) and most Aes occurred during cycle 1-2¹**
- In a **randomised phase II trial (ReDOS)³**, a **strategy with weekly dose escalation of regorafenib from 80 mg to 160 mg/day** was found to be superior to a starting dose of 160 mg/day in terms of proportion of patients starting the 3rd cycle
 - A trend for improved OS was seen in the dose escalation arm
 - QoL parameters were improved in the dose escalation arm versus the standard dose arm at week 2 of the 1st cycle
- Other smaller studies, including a study in elderly individuals^{4,5}, reported **positive results with flexible dosing strategies**

FLEXIBLE DOSING OF REGORAFENIB

CONCLUSION

- Taken together, these results indicate that **a flexible dosing of regorafenib can be adopted without jeopardising treatment efficacy**, with the ReDOS dose escalation strategy potentially establishing a new standard for optimising regorafenib dosing

TOLERABILITY OF CAPECITABINE MONOTHERAPY IN mCRC: A REAL-WORLD STUDY

Leicher LW et al. Drugs R D 2017; 17:117–124

TOLERABILITY OF CAPECITABINE MONOTHERAPY IN mCRC

OBJECTIVES AND METHODS

- Aim of this study was to provide real-world data on **AE rates, dose adjustments** and **discontinuations** associated with **capecitabine monotherapy** in patients with **mCRC**
- This was a **retrospective study** that analysed data from patients with mCRC scheduled to receive up to **8 planned cycles** of capecitabine monotherapy
- Data analysed included
 - **AEs** (HFS, GI, haematological and cardiac)
 - Relative dose intensities (**RDIs**)[†]
 - **Dose reductions and discontinuations**

[†] RDI was calculated for each patient to determine the dose received relative to the planned scheduled dose over 8 cycles. A patient receiving their starting dose over 8 cycles represented 100%. Reduced doses were based on their relative proportion of the starting dose

TOLERABILITY OF CAPECITABINE MONOTHERAPY IN mCRC

RESULTS (1)

- Data from 86 patients analysed over 8 planned cycles of capecitabine monotherapy
- Most patients (77%) started at below the recommended dose
 - 750 mg/m² bid (N=12); 1000 mg/m² bid (N=54); 1250 mg/m² bid (N=20)
- Median RDIs (%) for each starting dose were:
 - 750 mg/m² (37.5%); 1000 mg/m² (67.2%); 1250 mg/m² (68.8%)
- 46.5% of patients experienced HFS
- 44.2% of patients experienced GI AEs
- **Dose reductions** and **treatment discontinuations** occurred in
 - **17–24% of patients** who experienced **HFS**
 - **15–25% of patients** who experienced **GI AEs**

TOLERABILITY OF CAPECITABINE MONOTHERAPY IN mCRC RESULTS (2)

Number of AEs and dose reductions or discontinuations in patients reporting AEs over the course of 8 cycles

AEs	Number of AEs	Number of dose reductions	Number of discontinuations
HFS	88	21	15
GI	84	13	21
Haematological	6	2	3 [†]
Cardiac	6	1	1

† one case where it was not explicitly stated that the discontinuation was due to anaemia

TOLERABILITY OF CAPECITABINE MONOTHERAPY IN mCRC CONCLUSIONS

- **HFS and GI AEs were frequent** in patients treated with capecitabine monotherapy in a real world clinical setting
- Most patients **started treatment** at a dose **below the recommended dose**
- Patients who started at the lowest dose also had the lowest median RDIs, indicating interruption of the planned treatment regimen
- **Dose reductions** and **discontinuations occurred** in **15–25%** of patients who experienced HFS or GI AEs over the course of 8 cycles of therapy
- Limitations of the study include the retrospective design and small patient numbers

BI-WEEKLY ADMINISTRATION OF TAS-102 FOR NEUTROPENIA PREVENTION IN PATIENTS WITH CRC

Yoshida Y et al. Anticancer Res 2018; 38(7):4367-4373

BI-WEEKLY ADMINISTRATION OF TAS-102

BACKGROUND AND METHOD

- TAS-102 improves OS and PFS in previously treated patients with mCRC^{1,2}
- Neutropenia is the most common AE that may negatively impact continuation of therapy³
- The aim of this retrospective study was to investigate factors associated with grade ≥ 3 neutropenia in TAS-102-treated patients with mCRC⁴
- Response rate, PFS, OS, and AEs were analysed
- Stratification factors included
 - KRAS mutation
 - Administration method
 - Concomitant drug administration
 - Neutrophil-to-lymphocyte ratio
 - Onodera's prognostic nutritional index

BI-WEEKLY ADMINISTRATION OF TAS-102

RESULTS

- Medical records of 41 patients were reviewed¹
- **Biweekly administration was associated with significantly less neutropenia compared to recommended administration[†] (7.1% versus 44.4%, respectively)**
- No significant difference was observed in DCR and OS rates between the biweekly and recommended administration regimens
- Biweekly regimen was associated with significantly prolonged PFS versus recommended administration regimens

[†] Twice daily on Days 1 through 5 and Days 8 through 12 of each 28-day cycle²

BI-WEEKLY ADMINISTRATION OF TAS-102

CONCLUSIONS

- Biweekly administration of TAS-102 without a change in the drug dose intensity was associated with reduced neutropenia in patients with mCRC
- There was no evidence of reduced efficacy with biweekly administration versus recommended administration
- Limitations of the study include the retrospective design and small patient numbers

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Email
antoine.lacombe@cor2ed.com



GI CONNECT
Bodenackerstrasse 17
4103 Bottmingen
SWITZERLAND

Dr. Antoine Lacombe
Pharm D, MBA
Phone: +41 79 529 42 79
antoine.lacombe@cor2ed.com

Dr. Froukje Sosef
MD
Phone: +31 6 2324 3636
froukje.sosef@cor2ed.com

