

Methods: Patients with unresectable mCRC were randomized 1:1 to receive up to 8 cycles of FOLFOXIRI plus bev, followed by bev (arm A), or the same induction followed by bev plus metroCT (capecitabine 500 mg/tid and cyclophosphamide 50 mg/die per os, arm B) until disease progression (PD). According to the comparative Rubinstein and Korn's design, estimating a first-line PFS of 11 months, to detect a HR of 0.75 favoring arm B, with 1 sided-alpha and beta errors of 15% and 80%, 173 events were required. In the case of PD during maintenance, the re-introduction of FOLFOXIRI plus bev or of a modified FOLFOXIRI plus bev regimen (i.e. FOLFOXIRI/FOLFOX or FOLFIRI plus bev) was recommended up to 4 cycles, followed by maintenance, according to randomization arm.

Results: At a median follow up of 43.9 months, 210 and 164 progression and death events were registered. No significant differences between arms were reported in terms of PFS (median PFS arm A/B: 9.4 / 10.3 months; HR: 0.94 [70%CI: 0.82-1.09], $p = 0.680$) and OS (median OS arm A/B: 28 / 22.5 months; HR: 1.16 [70%CI: 0.99-1.37], $p = 0.336$). Response rate with FOLFOXIRI plus bev was 63% (arm A/B: 68%/57%). No interaction effect between treatment arm and RAS/BRAF status or tumour sidedness was reported in PFS or OS. In the overall study population median PFS among RAS/BRAF wt ($N = 36$), RAS mutant ($N = 150$) and BRAF mutant ($N = 20$) patients were 10.2, 10.1 and 9.4 months (log-rank test, $p = 0.759$) and median OS were 31.3, 24.9 and 19.2 months, respectively (log-rank test, $p = 0.457$). 152 (72%) out of 210 patients with progression event received a treatment after PD. In 87 (57%) and 44 (29%) cases FOLFOXIRI plus bev or modified FOLFOXIRI plus bev were re-introduced, respectively. Main grade 3/4 adverse events occurring during the reintroduction of FOLFOXIRI plus bev were neutropenia (20%), diarrhea (9%), stomatitis (3%), vomiting (2%), hypertension (1%), and venous thrombosis (1%).

Conclusion: The addition of metroCT to maintenance with bev does not significantly improve PFS or OS of mCRC patients irrespective of their RAS/BRAF mutational status and tumour sidedness. Activity results of FOLFOXIRI plus bev are confirmed with a shorter treatment duration (4-months). Outcome results in the BRAF mutant subgroup are consistent with previous findings with the triplet plus bev. Re-introduction of FOLFOXIRI plus bev was feasible and associated with a favourable safety profile.

O – 017 FOLFOXIRI plus bevacizumab (bev) followed by maintenance with bev alone or bev plus metronomic chemotherapy (metroCT) in mCRC: Final results of the phase II randomized MOMA trial by GONO

F Marmorino¹, C Cremolini¹, F Bergamo², N Pella³, C Antoniotti¹, D Rossini¹, E Dell'Aquila⁴, G Masi¹, L Salvatore¹, F Loupakis⁵, L Marcucci⁶, D Gemma⁷, G Cardellino³, B Borelli¹, V Ricci⁸, S Delfanti⁹, E Mori¹⁰, G Tonini⁴, S Lonardi⁵, G Fontanini¹¹, L Boni¹², A Falcone¹³

¹Department of Translational Research and New Technologies in Medicine and Surgery, Unit of Medical Oncology 2, Azienda Ospedaliera Universitaria Pisana, Istituto Toscano Tumori, Pisa, Italy, ²Veneto Institute of Oncology IOV-IRCCS, Padua, Italy, ³Department of Oncology, Azienda Sanitaria Universitaria Integrata S. Maria della Misericordia, Udine, Italy, ⁴Department of Medical Oncology, Campus Bio-Medico University of Rome, Rome, Italy, ⁵Medical Oncology Unit 1, Clinical and Experimental Oncology Department, Veneto Institute of Oncology IOV-IRCCS, Padua, Italy, ⁶U.O. Oncologia Medica, Azienda USL-5 Istituto Toscano Tumori, Pontedera, Italy, ⁷Department of Medical Oncology, Hospital of Frosinone, Frosinone, Italy, ⁸Medical Oncology, Oncology Department, S. Croce & Carle Teaching Hospital Cuneo, Cuneo, Italy, ⁹Medical Oncology, Foundation IRCCS Policlinico San Matteo, Pavia, Italy, ¹⁰SOC Oncologia Medica- Nuovo Ospedale di Prato "Santo Stefano" Az.USL Toscana Centro, Prato, Italy, ¹¹Department of Surgical, Medical, Molecular Pathology and Critical Area, University of Pisa, Pisa, Italy, ¹²Clinical Trials Coordinating Center, Istituto Toscano Tumori, University Hospital Careggi, Florence, Italy, ¹³University of Pisa, Pisa, Italy

Introduction: The MOMA study investigated whether the addition of metroCT to bev as maintenance treatment following 4 months of upfront therapy with FOLFOXIRI plus bev could improve PFS of mCRC patients. From May 2012 to March 2015, 232 patients, mostly RAS (65%) or BRAF (9%) mutant, were randomized in 16 Italian centers. The primary endpoint was not met. Here we provide final clinical results of the study including OS findings, subgroup analyses and treatments after progression.