

GASTROINTESTINAL TUMOURS, COLORECTAL

LBA18_PR Durable clinical benefit with nivolumab (NIVO) plus low-dose ipilimumab (IPI) as first-line therapy in microsatellite instability-high/mismatch repair deficient (MSI-H/dMMR) metastatic colorectal cancer (mCRC)

H.-J.J. Lenz¹, E. Van Cutsem², M.L. Limon³, K.Y. Wong⁴, A. Hendlisz⁵, M. Aglietta⁶, P. Garcia-Alfonso⁷, B. Neyns⁸, G. Luppi⁹, D. Cardin¹⁰, T. Dragovich¹¹, U. Shah¹², A. Atasoy¹³, R. Postema¹⁴, Z. Boyd¹⁵, J.-M. Ledezine¹⁶, M. Overman¹⁷, S. Lonardi¹⁸

¹Medical Oncology, University of Southern California Norris Comprehensive Cancer Center, Los Angeles, CA, USA, ²Digestive Oncology, University Hospitals Gasthuisberg/Leuven and KU Leuven, Leuven, Belgium, ³Medical Oncology, Hospital Universitario Virgen del Rocío, Seville, Spain, ⁴Medical Oncology, Westmead Hospital, Sydney, Australia, ⁵Internal Medicine, Institut Jules Bordet, Brussels, Belgium, ⁶Medical Oncology, Candiolo Cancer Institute and University of Torino Medical School, Candiolo, Italy, ⁷Medical Oncology, Hospital Gral Universitario Gregorio Marañón, Madrid, Spain, ⁸Medical Oncology, University Hospital Brussels, Brussels, Belgium, ⁹Oncology and Hematology, University Hospital of Modena, Modena, Italy, ¹⁰Department of Medicine, Vanderbilt – Ingram Cancer Center, Nashville, TN, USA, ¹¹Medical Oncology and Hematology, Banner MD Anderson, Gilbert, AZ, USA, ¹²Hematology-Medical Oncology, Lehigh Valley Hospital, Allentown, PA, USA, ¹³R&D Oncology Clinical Development, Bristol-Myers Squibb Company, Princeton, NJ, USA, ¹⁴HEOR, Bristol-Myers Squibb Company, London, UK, ¹⁵Oncology Translational Medicine, Bristol-Myers Squibb Company, Princeton, NJ, USA, ¹⁶Biostatistics, Bristol-Myers Squibb Company, Princeton, NJ, USA, ¹⁷Gastrointestinal Medical Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA, ¹⁸Medical Oncology, Istituto Oncologico Vento IOV-IRCSS, Padua, Italy

Background: In previously chemotherapy-treated patients with MSI-H/dMMR mCRC from the phase II CheckMate-142 trial, NIVO + low-dose IPI (1 mg/kg) provided durable clinical benefit (investigator-assessed [INV] objective response rate [ORR] 55%, median duration of response [DOR] not reached, 12-month overall survival [OS] rate 85%) and manageable safety. Here we report the first results of the efficacy and safety of NIVO + low-dose IPI as a first-line (1L) therapy for patients with MSI-H/dMMR mCRC from CheckMate-142.

Methods: Patients with no prior treatment for MSI-H/dMMR mCRC were treated with NIVO 3 mg/kg every 2 weeks (Q2W) + low-dose IPI every 6 weeks (Q6W) until disease progression. The primary endpoint was ORR (INV; RECIST v1.1).

Results: Of 45 patients, 51% were male and median age was 66 years. Median follow-up (time from first dose to data cut-off) was 13.8 months (range 9–19). The ORR and disease control rate (DCR) were 60% and 84%, respectively, with a 7% complete response rate (Table). Median DOR was not reached. At 12 months, progression-free survival (PFS) and OS rates were 77% and 83%, respectively. Grade 3–4 treatment-related adverse events (TRAEs) occurred in 16% of patients and 7% of patients had any grade TRAEs leading to discontinuation. Any grade select immune-mediated TRAEs affecting the hepatic (13%), gastrointestinal (11%), pulmonary (2%), and renal (2%) systems resolved in 100% of patients, while those affecting the skin (33%) and endocrine (24%) systems resolved in 45% and 60% of patients, respectively.

Conclusions: NIVO (Q2W) + low-dose IPI (Q6W) demonstrated robust and durable clinical benefit and was well-tolerated as a 1L treatment for MSI-H/dMMR mCRC. These results suggest that NIVO + low-dose IPI may represent a new treatment option for these patients.

Clinical trial identification: NCT02060188.

Editorial acknowledgement: Professional medical writing assistance and editorial assistance was provided by Tanmayi Mankame, PhD, and Christine Craig of Parexel International, funded by Bristol-Myers Squibb.

Legal entity responsible for the study: Bristol-Myers Squibb.

Funding: Bristol-Myers Squibb.

Disclosure: H.-J.J. Lenz: Honoraria: Bayer, Boehringer Ingelheim, Merck Serono, Roche; Consulting or advisory role: Bayer, Merck Serono, Pfizer, Roche; Travel, accommodations, expenses: Bayer, Merck Serono, Roche. E. Van Cutsem: Grants: Amgen, Bayer, BMS, Boehringer, Celgene, Ipsen, Lilly, Merck, MSD, Novartis, Roche, Servier; Honoraria: Bayer, BMS, Celgene, Lilly, Novartis, Servier. K.Y. Wong: Consultant/advisory role: Baxalta; Honoraria: Baxalta; Travel, accommodations, expenses: Roche. M. Aglietta: Honoraria: Bristol-Myers Squibb; Consulting or advisory role: Bristol-Myers Squibb; Travel, accommodations, expenses: Bristol-Myers Squibb. B. Neyns: Honoraria: BMS, Merck, Novartis, Roche; Consultant/advisory: BMS, Merck, Novartis, Roche; Speakers' bureau: Novartis; Research (Inst): Merck KGaA, Novartis, Pfizer; Travel: Amgen, BMS, Merck, Novartis, Roche. D. Cardin: Consulting or advisory role: Merrimack, Raphael Pharmaceuticals; Research funding (Inst.): Celgene, EMD Serono, Hoffman-LaRoche, Incyte, Oncolytics, Synta, BMS, Advaxis (Inst). A. Atasoy: Employment: BMS. R. Postema: BMS employee and shareholder. Z. Boyd: Employment: Bristol Meyers Squibb; Stock and other ownership interests: Roche/Genentech, Bristol Meyers Squibb J.-M. Ledezine: Employment: Bristol-Myers Squibb; Stock and other ownership interests: Bristol-Myers Squibb. M. Overman: Consulting or advisory role: Bristol-Myers Squibb, Merrimack, Roche/Genentech; Research funding: Amgen, Bristol-Myers Squibb, Celgene, MedImmune, Merck, Roche. S. Lonardi: Consulting or advisory role: Amgen, Bayer, Merck, Lilly; Speakers' bureau: Lilly, Roche, BMS; Research funding: Amgen. All other authors have declared no conflicts of interest.

Table: LBA18_PR Efficacy and safety

NIVO + IPI (N = 45)

ORR ^a , n (%) (95% CI)	27 (60) (44–74)
Best overall response, n (%) CR PR SD PD Not determined	3 (7) 24 (53) 11 (24) 6 (13) 1 (2)
DCR ^b , n (%) (95% CI)	38 (84) (71–94)
Median time to response, months (range)	2.6 (1.2–13.8)
Median DOR, months (95% CI)	NR (11.5–NE)
Median PFS, months (95% CI) 12-month rate, % (95% CI)	NR (14.1–NE) 77 (62.0–87.2)
Median OS, months (95% CI) 12-month rate, % (95% CI)	NR (NE) 83 (67.6–91.7)
TRAEs, n (%) Any grade Grade 3–4	35 (78) 7 (16)
TRAEs leading to discontinuation, n (%) Any grade Grade 3–4	3 (7) 1 (2)

^aPatients with CR or PR divided by the number of treated patients

^bPatients with a CR, PR, or SD for ≥12 weeks divided by the number of treated patients CI = confidence interval; CR = complete response; NE = not estimable; NR = not reached; PD = progressive disease; PR = partial response; SD = stable disease