

LBA31

High- vs low-dose pre-operative ipilimumab and nivolumab in locoregionally advanced urothelial cancer (NABUCCO cohort 2)

<u>J. Van Dorp</u>¹, B.B.M. Suelmann², N. Mehra³, M. Van Montfoort⁴, N. Van Dijk⁵, K. Hendricksen⁶, J. de Feijter⁵, T. Boellaard⁷, A. Daletzakis⁸, C.U. Blank⁹, R. Meijer¹⁰, T. van der Heijden¹¹, B.W.G. van Rhijn⁶, M.S. van der Heijden⁵

¹ Molecular Carcinogenesis, Netherlands Cancer Institute, Amsterdam, Netherlands, ² Medical Oncology, UMC Utrecht, Utrecht, Netherlands, ³ Medical Oncology Department, Radboud University Medical Centre Nijmegen, Nijmegen, Surrey, Netherlands, ⁴ Department of Pathology, Netherlands Cancer Institute, Amsterdam, Netherlands, ⁵ Medical Oncology Department, Netherlands Cancer Institute, Amsterdam, Netherlands Cancer Institute, Amsterdam, Netherlands Cancer Institute, Amsterdam, Netherlands, ⁸ Department of Biometrics, Netherlands Cancer Institute, Amsterdam, Netherlands Cancer Institute, Amsterdam, Netherlands, ⁹ Medical Oncology Dept, NKI-AVL - Netherlands Cancer Institute/Antoni van Leeuwenhoek Hospital, Amsterdam, Netherlands, ¹⁰ Urological Oncology, UMC Utrecht, Utrecht, Netherlands¹¹ Medical Oncology Department, Radboud University Medical Centre Nijmegen, Nijmegen, Netherlands

Background

Standard treatment for patients (pts) with stage III (cT3-4aN0M0 or cT1-4aN1-3M0) urothelial cancer (UC) is cisplatin (cis)-based chemotherapy followed by radical surgery. A substantial number of pts is unfit for cis-based chemotherapy. In NABUCCO cohort 1, 24 pts were treated with pre-operative day 1 ipilimumab 3 mg/kg (ipi 3), day 22 ipi 3 + nivolumab 1 mg/kg (nivo 1), and day 43 nivolumab 3 mg/kg (nivo 3), showing encouraging efficacy (46% pathological complete response (pCR, ypT0N0)). Recent data in pre-operative trials for other cancer types suggests that a lower dose of ipilimumab has equal activity and is better tolerated. In cohort 2, we set out to identify if this is also true in stage III UC, by testing two different dosing schedules for ipi + nivo.

Methods

NABUCCO is a multicentre, phase lb/II, pre-operative trial. In cohort 2, thirty stage III, cis-ineligible (or refusal) UC pts were randomly assigned (1:1) to arm A: two cycles ipi 3 + nivo 1 (day 1, 22) and nivo 3 (day 43); or arm B: two cycles ipi 1 + nivo 3 (day 1, 22) and nivo 3 (day 43). The primary endpoint was pCR rate. Secondary endpoints include feasibility (resection within 12 weeks) and grade 3-4 immune-related adverse events (irAEs).

Results

Thirty pts were randomly assigned to arm A (n=15) or arm B (n=15). 26/30 (87%) pts received all 3 treatment cycles. Four pts missed one or more cycles of therapy due to irAEs. 26/30 pts underwent radical surgery, 24 within twelve weeks after start of treatment. One patient (arm B) progressed before surgery (evaluable, non-response) and three pts (1x arm A and 2x arm B) refused radical surgery while responding radiologically; one of these (arm B, baseline cT4aN3) had a lymph node dissection showing a micrometastasis (evaluable, non-response). Response was evaluable in 28 pts. In arm A, 6/14 (43%) pts had a pCR; 8/14 (57%) had a pCR or ypTisNO. In arm B, 1/14 (7%) had a pCR whereas 3/14 (21%) had a pCR or ypTisNO.

Conclusions

We observed a pCR in 6/14 (43%) evaluable pts treated with ipi 3 + nivo 1 (arm A). In contrast, a pCR was observed in 1/14 (7%) evaluable pts treated with ipi 1 + nivo 3 (arm B). Our data suggest that ipi 3 + nivo 1 is more efficacious than ipi 1 + nivo 3 as pre-operative treatment in stage III UC. Data for toxicity will be added in the presentation.

Clinical trial identification

NCT03387761.

Legal entity responsible for the study

The Netherlands Cancer Institute.

Funding

Bristol Myers Squibb.

Disclosure

B.B.M. Suelmann: Financial Interests, Personal and Institutional, Advisory Role: Pfizer, MSD, BMS, Novartis, Ipsen; Financial Interests, Institutional, Research Grant: Pfizer, Astellas, BMS. N. Mehra: Financial Interests, Personal and Institutional, Advisory Board: Roche; Financial Interests, Personal and Institutional, Advisory Board: MSD; Financial Interests, Personal and Institutional, Advisory Board: Bristol Myers Squibb; Financial Interests, Personal and Institutional, Advisory Board: Bayer; Financial Interests, Personal and Institutional, Advisory Board: Astellas; Financial Interests, Personal and Institutional, Advisory Board: Janssen; Financial Interests, Institutional, Funding: Astellas; Financial Interests, Institutional, Funding: Bristol Myers Squibb; Financial Interests, Institutional, Funding: Janssen; Financial Interests, Institutional, Funding: Pfizer; Financial Interests, Institutional, Funding: Roche; Financial Interests, Institutional, Funding: Sanofi; Financial Interests, Institutional, Funding: Genzyme. J. de Feijter: Financial Interests, Personal and Institutional, Advisory Board: Janssen; Financial Interests, Personal and Institutional, Advisory Board: Merck; Financial Interests, Personal and Institutional, Advisory Board: Pfizer; Financial Interests, Personal and Institutional, Other, Travel expenses: Pfizer, C.U. Blank: Financial Interests, Personal, Advisory Board: Roche; Financial Interests, Personal, Advisory Board: Merck; Financial Interests, Personal, Advisory Board: Bristol Meyers Squibb; Financial Interests, Personal, Advisory Board: Roche; Financial Interests, Personal, Advisory Board: GlaxoSmithKline; Financial Interests, Personal, Advisory Board: Novartis; Financial Interests, Personal, Advisory Board: Pfizer; Financial Interests, Personal, Advisory Board: Genmab; Financial Interests, Personal, Advisory Board: Eli Lilly; Financial Interests, Personal and Institutional, Research Grant: Bristol Myers Squibb; Financial Interests, Personal and Institutional, Research Grant: NanoString; Financial Interests, Personal and Institutional, Research Grant: Novartis. R. Meijer: Financial Interests, Institutional, Advisory Board: Merck; Financial Interests, Institutional, Advisory Board: MSD; Financial Interests, Institutional, Advisory Board: Janssen; Financial Interests, Institutional, Advisory Board: Bristol Myers Squibb; Financial Interests, Institutional, Funding: Janssen; Financial Interests, Institutional, Funding: Astellas; Financial Interests, Institutional, Funding: AstraZeneca; Financial Interests, Institutional, Funding: MSD; Financial Interests, Institutional, Funding: Bristol Myers Squibb; Financial Interests, Institutional, Funding: Roche. T. van der Heijden: Financial Interests, Personal, Advisory Role: Merck, Pfizer, Janssen, Bristol Myers Squibb, Astellas, AstraZeneca, MSD. B.W.G. van Rhijn: Financial Interests, Personal, Advisory Board: AstraZeneca, Ferring and QED Therapeutics. M.S. van der Heijden: Financial Interests, Institutional, Research Grant: Bristol Myers Squibb, AstraZeneca, 4SC, Roche; Financial Interests, Institutional, Advisory Role: Bristol Myers Squibb, Merck, Roche, AstraZeneca, Seattle Genetics, Pfizer, Janssen. All other authors have declared no conflicts of interest.

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