TPS9610 Poster Session

## A phase 2 study to determine the clinical and pathological (path) response to neoadjuvant nivolumab (nivo) and relatlimab (rela) in stage II to IV (M0) resectable cutaneous squamous cell carcinoma (Neo-SCC).

Maria Gonzalez, Alexander Christopher Jonathan van Akkooi, Thomas Bennett, Sydney Ch'ng, Kerwin Frank Shannon, Michael Alexander Rtshiladze, Richard A. Scolyer, Robert V. Rawson, Monica Osorio, Rony Kapoor, Edward Hsiao, Helen Rizos, Serigne N. Lo, Alexander M. Menzies, Angela M. Hong, Georgina V. Long, Ines Esteves Domingues Pires da Silva; Melanoma Institute Australia, Sydney, NSW, Australia; Melanoma Institute Australia, The University of Sydney, Sydney, NSW, Australia; Melanoma Institute Australia, Royal Prince Alfred Hospital, Chris O'Brien Lifehouse, The University of Sydney, The Mater Hospital Sydney, Sydney, NSW, Australia; Melanoma Institute Australia, The University of Sydney, Chris O'Brien Lifehouse, Sydney, NSW, Australia; Melanoma Institute Australia, The University of Sydney, and Royal Prince Alfred Hospital, Sydney, NSW, Australia; Melanoma Institute Australia, I-Med Radiology, Royal Prince Alfred Hospital, Sydney, NSW, Australia; Melanoma Institute Australia, The University of Sydney, Australia; Melanoma Institute Australia, The University of Sydney, Chris O'Brien Lifehouse, Royal Prince Alfred Hospital, Sydney, NSW, Australia; Melanoma Institute Australia, The University of Sydney, Royal North Shore and Mater Hospitals, Sydney, Australia; Melanoma Institute Australia, The University of Sydney, Royal North Shore and Mater Hospitals, Sydney, Australia; Melanoma Institute Australia, The University of Sydney, Royal North Shore and Mater Hospitals, Sydney, Australia; Melanoma Institute Australia, The University of Sydney, Royal North Shore and Mater Hospitals, Sydney, Australia; Melanoma Institute Australia, The University of Sydney, Australia; Melanoma Institute Australia

Background: Cutaneous squamous cell carcinoma (cuSCC) is the second most common skin cancer worldwide (Bray et al. 2018). While 90% of cases are cured surgically (Kauvar et al. 2015), approx. 5% spread regionally or distantly, with an OS rate < 20% at 10 years if regional lymph nodes (LN) are involved (Ogata et al. 2019). Immunotherapy trials have shown efficacy in advanced disease. Neoadjuvant therapy (NAT) is a powerful treatment platform to rapidly assess drug activity in resectable cancers. In melanoma, a major path response to immunotherapy (≤10% viable tumor) correlates with low risk of recurrence in resectable stage III disease (Menzies et al. 2021), and improved OS and EFS when anti-PD1 monotherapy or in combination with anti-CTLA-4 is given neoadjuvantly vs. monotherapy adjuvant (adj) treatment (Patel et al. 2023; Blank et al. 2024). In a study of NAT anti-PD1 monotherapy with cemiplimab, in pts with resectable stage III or IV (Mo) cuSCC (N = 20), 55% of pts had a path complete response (pCR) (0% viable tumour) (Ferrarotto et al. 2021). In a larger NAT cemiplimab trial (N = 79) 51% pts achieved pCR (Gross et al. 2022). The De-Squamate cuSCC trial, evaluating NAT anti-PD1 monotherapy with pembrolizumab (N = 27), showed a 63% combined rate of pCR and clinical complete response (CCR) resulting in the de-escalation of surgery and post operative radiotherapy (RT) in 48% of pts, and avoidance of post-operative RT in 15% of pts (Ladwa et al. 2024). The Neo-SCC trial will evaluate if combined PD-1 plus lymphocyteactivation 3 (LAG3) checkpoint inhibition achieves high path response, while allowing for response-driven surgical and RT de-escalation in pts with resectable cuSCC. Methods: Pts with histologically confirmed, resectable cuSCC AJCC (8th ed, head/neck) or UICC (9th ed, non-head/ neck) clinical stage II, III or IV (Mo) are eligible (N = 20). All pts undergo resection (RES) at week 6 following NAT with 2 doses of nivo (480 mg, IV) plus rela (160 mg, IV) at week 0 and 4. LN disease pts undergo baseline index-LN marking and RES at week 6, with subsequent total LN RES if there is no pCR in the index-LN. Synchronous primary/in-transit metastases undergo wide excision during index-LN resection. Non-LN disease pts showing CCR at week 6 receive an incisional biopsy of the baseline tumor site. All non-LN pts undergo definitive excision except those with CCR or pCR on biopsy. RT follows standard care. Imaging includes CT and FDG PET/ CT at BL, prior to RES, and during the 5-year follow-up period. Tumor, blood and faecal samples are collected at BL, RES, and recurrence. The primary endpoint is the pCR rate at RES. The sample size is powered to detect a difference > 25% in pCR rate with the historical control. Secondary endpoints include surgical/RT de-scalation rates, RFS, OS, safety/tolerability, surgical outcomes, QOL, and biomarker analyses. Clinical trial information: NCTo6288191. Research Sponsor: Bristol Myers Squibb (drug only).