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1104P Efficacy of immune checkpoint inhibition in metastatic or non-resectable melanoma after failure of adjuvant anti-PD1 treatment: A EUMelareg real-world evidence study

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Background: Adjuvant immune checkpoint inhibition (ICI) with anti-PD1 antibodies in high-risk resected melanoma has been shown to improve recurrence-free survival by about 50 percent. It is unclear, whether adjuvant pre-treatment with anti-PD1 antibodies would impair response to ICI in metastatic patients with recurrence after adjuvant ICI.

Methods: From the adjuvant study platform of the European Melanoma Treatment Registry (EUMelaReg) we analysed cases with recurrence following adjuvant anti-PDI ICI. In those, receiving ICI in the first-line setting, response rates and progression-free survival were compared to patients selected from the EMelaReg database by matching for relevant prognostic factors in the first-line non-adjuvant setting.

Results: A total of 389 melanoma patients with first-line ICI after failure from adjuvant anti-PD1 antibody treatment could be matched 1:1 for several prognostic covariates to first-line ICI cases without adjuvant pre-treatment. Overall response rate was significantly lower after adjuvant anti-PD1 treatment failure (32.9% vs. 40.0%) and progression free survival was 4.6 months for patients with adjuvant pre-treatment as compared to 10.1 months for PD1-naive patients (p<0.0001). This contrast was independent from usage of single agent anti-PD1 or combined ICI with anti-PD1 and anti-CTLAE4 in the first-line setting.

Conclusions: Adjuvant pre-treatment with anti-PD1 antibodies was related to an inferior response and progression-free survival in patients with metastatic or non-resectable melanoma receiving ICI in the first-line setting.

Legal entity responsible for the study: The European Melanoma Treatment Registry.

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1105P First-line nivolumab plus ipilimumab in advanced melanoma patients previously treated with adjuvant systemic therapy

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Background: The combination of nivolumab and ipilimumab (NIVO+IPI) is associated with the most durable responses and the highest overall survival rates in patients (pts) with advanced melanoma. However, this regimen is increasingly being used in a different patient population than in clinical trials, namely after prior adjuvant treatment. The objective of this study is to evaluate the efficacy and safety of NIVO+IPI in pts who have relapsed despite adjuvant treatment.

Methods: This retrospective analysis included pts with unresectable stage III and stage IV melanoma treated with NIVO+IPI between 01/2021-10/2022 at 5 cancer centers in Poland according to uniform criteria. All pts received prior adjuvant therapy (immunotherapy or BRAF/MEK inhibitors) for stage III/IV melanoma.

Results: A total of 70 pts were identified. The median age was 53 years, 32% of pts were female, 46% had *BRAF* mutation. At baseline, 18.5% of pts had unresectable stage III disease, 21.2% had stage M1a, 18.2% M1b, 34.8% M1c and 7.6% M1d. Most pts (81.4%) received anti-PD1 in the adjuvant setting. In 70% of pts, the disease relapsed during adjuvant therapy. Median follow-up time was 12.6 months. The objective response rate was 24%. A higher response rate was observed in pts who

were immunotherapy-naive (33%) than in pts who received anti-PD1 in the adjuvant setting (22%). Median progression-free survival (mPFS) was 3.9 (95%CI 3.0–9.7) months. Although not statistically significant, a higher median PFS of NIVO+IPI was observed in patients who received BRAF/MEK inhibitors as compared to those who were treated with anti-PD1 antibodies in the adjuvant setting (11.1 vs 3.7 months, p=0.53). Overall survival rate at 12 months was 59% (95%CI 47–74). Treatment-related adverse events (TRAEs) of any grade were observed in 97% of pts and grade 3/ 4 TRAEs occurred in 24% of pts.

Conclusions: NIVO+IPI shows lower efficacy in advanced melanoma pts who have relapsed despite adjuvant treatment comparing to clinical trial data. The population of pts with a particularly poor prognosis are those previously treated with adjuvant anti-PD-1 antibodies, as disease recurrence indicates some resistance to immunotherapy difficult to overcome by adding anti-CTLA4 antibody to anti-PD-1 therapy.

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Anti-PD-1 (PD1) monotherapy or in combination with anti-CTLA-4 for metastatic melanoma (MM) patients (pts) with liver metastases (mets)

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Background: Liver mets have been associated with poor response and survival in pts with MM treated with PD1 alone or in combination with anti-CTLA-4 (ipilimumab; PD1+IPI). Whether these pts benefit from PD1+IPI over PD1 is unknown. In MM pts with liver metastases, we sought to: a) determine objective response rate (ORR), progression-free survival (PFS) and overall survival (OS) to PD1 vs PD1+IPI, and b) identify clinical predictors of response and survival to PD1+/-IPI.

Methods: MM pts with liver mets treated with 1st line PD1 or PD1+IPI were included. Demographics, patient and disease characteristics, baseline blood parameters and clinical outcomes were examined. Univariate and multivariate (MVA) analyses were performed to identify clinical predictors of response and survival.

Results: Of 533 MM pts treated with 1st line PD1 or PD1+IPI; 284 (53%) had PD1 and 249 (47%) had PD1+IPI. PD1 group had more ECOG PS \geq 1 (53% vs 34%), but less BRAF V600 mutation (15% vs 33%) and stage M1D (15% vs 31%). Median follow-up from commencement of PD1+/IPI was 47 months (42–51); ORR was 41%, higher in PD1+IPI (47%) vs PD1 (35%) (p=0.0027). PFS and OS at 1 year were 68% and 40%, respectively; non statistically higher with PD1+IPI (69%/43%) vs PD1 (67%/38%) (p>0.05). However, on MVA with multiple imputation for missing values and adjusting for predefined variables including age, gender, melanoma subtype (cutaneous non-acral, acral and mucosal), mutation status, ECOG PS, LDH and M1 substage



Efficacy of immune checkpoint inhibition in metastatic or nonresectable melanoma after failure of adjuvant anti PD1 treatment - A EUMelaReg real world evidence study -

. I.-M. Svane⁸. M. W



Background Adjuvant immune checkpoint inhibition (CI) with an HP-2 antibodies in high-risk resected melanoma has improved recurrence/ree survival by about 50 percent, but there is still a proportion of patients who develop recurrence despite adjuvant anti-PD1 treatment, many of them unrescenable or metatatic disease. Overall, in stall IIA to IID around 40% of patients may develop a recurrence according to the long-term result of the KENNOTE-OS4 trial. This way accur while sliton the 12 months of adjuvant treatment or later in the course of the disease and a site referred to as early and late IQ resistance. Navalide data on the efficacy of ICI therapy in advanced patients with anti-PD1 antibodies would impair response to ICI in patients with metatatic recurrence. This study was performed to evaluate the inicia auccores of patients with metastatic or non-resectable melanoma treated with or without upfront anti-PD1 monotherapy treatment in the adjuvant setting.

Methods Cases with non-resetable stage III or stage IV metanoma who were treated with non-adjuvant in inhibition after finium from adjuvant anti-PD1 treatment were selected from the EUMeRieg data eculded If they had a used or muccesity poor dimetanoma, while acral and metanoma of unkn included. Both, 14 line single anti-PD1 therapy (gembrolitzumab or nivolumab) and combine (pol/hoo) therapy were included. n primary were anti-PD1/CTLA4

nary outcomes of interest were (1) the rival (PFS) from start of non-adjuvant IC

survival (PS) tiom start of non-adjuvant I.C. Turther analysis included stratifications for the time of the proceeding recurrence adjuvant treatment) and the impact of sourceal prognostic covariates. In order to parent duratisable bas from exteriors of patients, matching was a adjuvithm using multializable bas from exteriors of patients, matching are used adjuvithm using multializable bas from exteriors of patients, matching are used servern EMN, number of metastatics lists, sex, BAAF stata, age and Charlson com van individed are eard: 11 match.

Results

n BRAF V60

389 cases with 1st line ICI after failure from adjuvant anti-PD1 the cases receiving 1st line ICI without adjuvant anti-PD1 treatment (and demonstrated by only non-significant differences in key prognost standardized differences in the respective parameters (Figure 3). ses after adjuvant anti-PD1 failure were signifi ases (Table 2), which was also reflected in a sh

Figure 1).

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