Annals of Oncology abstracts

Conclusions: Pembro continues to show improvements in OS vs chemo as 1L treatment for metastatic NSCLC with PD-L1 TPS ≥50%. Despite the high crossover rate, 5-year OS was approximately doubled among pts who received pembro (31.9% vs 16.3%). Fewer pts who received pembro experienced grade 3—5 AEs vs those who received chemo. Long-term OS and durable responses were observed with pembro monotherapy.

Clinical trial identification: NCT02142738.

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LBA52

EMPOWER-Lung 1: Phase III first-line (1L) cemiplimab monotherapy vs platinum-doublet chemotherapy (chemo) in advanced non-small cell lung cancer (NSCLC) with programmed cell death-ligand 1 (PD-L1) ≥50%

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Background: EMPOWER-Lung 1 is a multicentre, open-label, global, phase III study of cemiplimab, an anti—PD-1, in patients (pts) with treatment-naïve stage IIIB, IIIC, or IV squamous or non-squamous NSCLC with PD-L1 expressed in >50% of tumour cells.

**Methods:** Pts were randomised 1:1 to receive cemiplimab 350 mg Q3W IV or investigator's choice of chemo. Crossover (CO) from chemo to cemiplimab was allowed following progression. The primary endpoints were overall survival (OS) and progression-free survival (PFS) per blinded Independent Review Committee. A prespecified interim analysis was performed after 50% of OS events. Data are presented per intention-to-treat (ITT) and in a PD-L1  $\geq$ 50% ITT population which comprised only pts with PD-L1  $\geq$ 50% by 22C3 per instruction for use (after recommended retesting in some pts). Data cut-off was 1 March 2020.

Results: In the ITT population (median follow-up: 13.1 months), median OS was 22.1 months (95% CI: 17.7—not evaluable [NE]) with cemiplimab (n=356) vs 14.3 months (95% CI: 11.7—19.2) with chemo (n=354; HR, 0.68; 95% CI: 0.53—0.87; P=0.002). Median PFS was 6.2 months (95% CI: 4.5—8.3) with cemiplimab vs 5.6 months (95% CI: 4.5—6.1) with chemo (HR, 0.59; 95% CI: 0.49—0.72; P<0.0001). In the PD-L1  $\geq$ 50% ITT population (median follow-up: 10.8 months), median OS was not reached (95% CI: 17.9—NE) with cemiplimab (n=283) vs 14.2 months (95% CI: 11.2—17.5) with chemo (n=280; HR, 0.57; 95% CI: 0.42—0.77; P=0.0002). Median PFS was 8.2 months (95% CI: 6.1—8.8) with cemiplimab vs 5.7 months (95% CI: 4.5—6.2) with chemo (HR, 0.54; 95% CI: 0.43—0.68; P<0.0001). CO rate to cemiplimab was 73.9%. In the ITT population, cemiplimab was associated with higher response rate (36.5% vs 20.6%), longer median duration of response (21.0 months vs 6.0 months) and lower rates of Grade  $\geq$ 3 adverse events regardless of attribution (37.2% vs 48.5%) compared to chemo.

Conclusions: In this study, 1L cemiplimab monotherapy significantly improved OS and PFS vs chemo in pts with advanced NSCLC with PD-L1  $\geq$ 50%, despite high CO rate, providing rationale for cemiplimab as a new treatment option for this patient population.

Clinical trial identification: NCT03088540.

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LBA53

Precision immuno-oncology for advanced non-small cell lung cancer (NSCLC) patients (pts) treated with PD1/L1 immune checkpoint inhibitors (ICIs): A first analysis of the PIONeeR study

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Background: PIONeeR aims to predict response/resistance to PD1/L1 ICIs in advanced NSCLC pts through comprehensive agnostic multiparametric and longitudinal biomarkers assessment. These ICIs significantly improve long-term outcome in 20% of advanced NSCLC pts but to date, no robust biomarker predicts primary or secondary resistance.

**Methods:** Advanced NSCLC pts with available archived tumor tissue treated with either nivolumab, pembrolizumab or atezolizumab, alone (2<sup>nd</sup> line min) or combined with chemotherapy (1<sup>st</sup> line), were systematically re-biopsied and blood-sampled at 6wks (V2) of treatment. ORR was assessed by RECIST 1.1 every 6wks. Quantification of circulating and tumor infiltrating immune cells and PD-L1 mediated inhibition (Immunoscore® IC) were performed by FACS and multiplex IHC coupled to digital pathology respectively. Endothelial activation, blood soluble factors, PK and TMB through WES were also assessed.

Results: The first 100 pts are mainly male (64%), smokers (91-8%), <65yrs (55%), with an ECOG PS0/1 (97%), treated in 2<sup>nd</sup> line setting (86%). Tumors were mainly ADC (57%) with ≥1% PDL1 expression in 38% of the cases. 21% were still on treatment data cut-off. V2 biopsy was available in 46% of cases; 33 pts progressed before the 6wks milestone, and 13 pts were considered as responders. Median PFS was 2.99 months (mo) [95%CI: 2.43 — 4.83] and median OS was 11.01 mo [95%CI: 8.21 - NA]. At baseline (VS), PD-L1 tumor cell percentage was significantly higher in responders, as well as tumor infiltration by cytotoxic lymphocytes (cTILs) (median: 160 vs 410 cells/mm²), associated either to no PDL1 expression, high infiltration of Treg cells in the tumor or weak PD1 expression on cTILs. High immune cell densities at the periphery and in the tumor were associated with survival. Immune cell infiltration and PD-L1+ cell density increased from VS to V2, as well as proximity between these cells. Massive PK variability among patients was found.

Conclusions: Immune cells quantification and characterization add value to clinical factors to predict advanced NSCLC response/resistance to ICIs.

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