ABSTRACT BOOK ABSTRACTS



A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

ADVERSE DRUG REACTIONS, INCLUDING SJS, TEN

## SERIOUS CUTANEOUS ADVERSE EVENTS ASSOCIATED WITH PD1 AND PDL1 INHIBITORS: A PHARMACOVIGILANCE ANALYSIS FROM THE RESEARCH ON ADVERSE DRUG EVENTS AND REPORTS PROGRAM (RADAR)

J. Jimenez<sup>(1)</sup> - C. Kosche<sup>(1)</sup> - D.r. Pease<sup>(1)</sup> - T. Erickson<sup>(1)</sup> - S.m. Rangel<sup>(1)</sup> - D.p. West<sup>(1)</sup> - M.e. Lacouture<sup>(2)</sup> - B. Nardone<sup>(1)</sup>

Northwestern University, Department Of Dermatology, Chicago, II, United States<sup>(1)</sup> - Memorial Sloan Kettering Cancer Center, Dermatology Service, Department Of Medicine, New York, Ny, United States<sup>(2)</sup>

Introduction: Though reports exist of serious cutaneous adverse events (sCAEs) for Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN) and erythema multiforme major (EMM) after exposure to some of PD-1 (nivolumab [NI], pembrolizumab [PE]) and PDL-1 (atezolizumab [AT], avelumab [AV], durvalumab [DU]) inhibitors, these associations have not been well-delineated.

Objective: The aim of this study was to determine if an association exists between sCAEs and these agents in the current FDA Adverse Event Reporting System (FAERS) database.

Material and Methods: We searched the FAERS database (for each drug from its approval date to Q12018) for MedDra terms related to SJS, TEN and EM that resulted in a serious outcome (Death, Disability, Hospitalization, Life-Threatening, Required Intervention to Prevent Permanent Impairment/Damage, or Other Serious). Proportional Reporting Ratio (PRR) for detection of a safety signal, defined as number of events >3, chi-square result (>4) and the PRR (>2) was calculated for each drug.

Results: A safety signal was detected for both PD-1 inhibitors: NI (N= 123 reports; PRR: 3.18; 95%CI: 2.67-3.81), PE (N=52; PRR: 3.33; 95%CI: 2.54-4.38), and for one PDL-1 inhibitor: AT (N=19; PRR: 4.68; 95%CI: 2.98-7.33). Notably no safety signal was detectable for DU (N= 2, too few reports) or AV (no reports).

Conclusions: PD-1 inhibitors, NI and PE, and PDL-1 inhibitor AT, were found to be significantly associated with sCAEs, supporting evolving evidence that these agents require close, ongoing dermatologist surveillance to assure adequate safety monitoring.





International League of Dermatological Societies Skin Health for the World

