ABSTRACT BOOK ABSTRACTS



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

MELANOMA AND MELANOCYTIC NAEVI

## LONG-TERM ADVERSE EVENT: INFLAMMATORY ORBITOPATHY INDUCED BY PEMBROLIZUMAB IN A PATIENT WITH METASTATIC MELANOMA

C Nardin<sup>(1)</sup> - S Borot<sup>(2)</sup> - M-a Beaudoin,<sup>(2)</sup> - F Cattin<sup>(3)</sup> - E Puzenat<sup>(1)</sup> - A-s Gauthier<sup>(4)</sup> - F Schillo<sup>(2)</sup> - F Aubin<sup>(1)</sup>

Centre Hospitalier Universitaire, Dermatologie, Besançon, France<sup>(1)</sup> - Centre Hospitalier Universitaire, Endocrinologie, Besançon, France<sup>(2)</sup> - Centre Hospitalier Universitaire, Radiologie, Besançon, France<sup>(3)</sup> - Centre Hospitalier Universitaire, Ophtalmologie, Besançon, France<sup>(4)</sup>

Background: The recent advent of immune checkpoint inhibitors (ICI), including antiprogrammed cell death 1 protein (anti-PD-1) agents has revolutionized the treatment of metastatic malignancies. Yet, ICI can disrupt immune tolerance resulting in enhanced immune activation in normal tissues with significant toxicity. A dysregulated activation of Tcells directed to normal tissues stands as the main mechanism of immune-related adverse events (irAE). We report here the first case of late inflammatory orbitopathy occurring in a melanoma patient treated with pembrolizumab.

Observation: A 68-year-old male with a BRAF wild-type cutaneous metastatic melanoma was treated with infusions of pembrolizumab (2mg/kg every 3 weeks). He had no past history of ophthalmologic disorder or smoking. While deemed in complete remission after 3 years of treatment with pembrolizumab (51 cycles), he presented with acute redness and retro-orbital pain of the right eye. Clinical examination found binocular vertical diplopia, eyelids swelling, upper eyelid retraction with lateral flare, proptosis and limited vertical eye movements without lagophtalmus of the right eye. Slit lamp examination revealed conjunctival chemosis and injection. Orbital MRI revealed thickening of all extra-ocular muscles of the right eye. Based on the orbital symptoms and tests ruling out thyroid-associated orbitopathy, myasthenia gravis and IgG4 orbitopathy, the diagnosis of inflammatory orbitopathy (IO) associated with anti-PD1 treatment was made.

Key message: Consequently, the occurrence of irAE under ICI should be monitored, even late after treatment instauration. The case will be presented with photos, MRI and disease management.





**International League of Dermatological Societies** *Skin Health for the World* 

