

**Abstract N°: 4455****A case of chronic cheilitis caused by contact dermatitis to tobacco from induction-heated cigarettes**Hana Janatova<sup>1</sup><sup>1</sup>Hospital , Dermatovenerology, Ceske Budejovice, Czech Republic

**Introduction & Objectives:** Case description of a 22-year-old man with a one-year history of chronic cheilitis, presenting with swelling, redness, erosions, and pain. The symptoms were highly bothersome. The patient's medical history includes atopic dermatitis, hay fever, allergies to dust, dust mites, hazelnuts, and dog fur. The patient smokes ten cigarettes a day and consumes alcohol once a week. He works at an advertising agency.

**Materials & Methods:** During the examination, contact allergy was suspected as part of the differential diagnosis. The patient underwent patch testing to identify possible contact allergies. Standard test panels were used, including cosmetic preservatives and commonly used cosmetics such as toothpaste. Additionally, patch testing was performed using materials from electronic cigarettes.

**Results:** The patch tests revealed a positive reaction to the tobacco flavoring in the induction-heated cigarette. The patient was advised to quit smoking. After quitting, the oozing manifestations on the lips healed. The case study includes photographs of the oozing cheilitis and the healed condition after smoking cessation.

**Conclusion:**

The clinical case includes the importance of patch tests and allergen exposure. Tobacco and tobacco smoke are associated with various skin conditions, among which contact dermatitis is of prime importance. The aetiological and clinical aspects vary according to the different tobacco production and processing methods. In our case, the patient stopped smoking and the symptoms of very bothersome cheilitis subsided.

