A positive patch test in an isoniazid-induced Dress syndrome

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Sir,

A 59-year old patient was diagnosed with severe psoriasis since 1989. He was treated with different therapies without any improvement. Therefore the decision was to start an anti-TNF therapy. Before initiating the treatment, latent tuberculosis was diagnosed with Mantoux test and quantiferon TB gold. The patient was treated by isoniazid (450mg/day) and rifampicin (600mg/day). Three weeks later, he was hospitalized for a generalized cutaneous rash associated with an erythema and oedema of the face and hands and cheilitis. The patient had no fever and no lymphadenopathy. Laboratory evaluations showed a moderate increase in liver transaminases (aspartate aminotransferase =85 U/l) and eosinophilia (1200/mm^3).

The diagnosis of Drug Reaction with Eosinophilia and Systemic Symptom (DRESS) syndrome was made (RegiSCAR score =3). Antituberculous treatment was discontinued and 15 days later, he was asymptomatic. Patch testing with rifampicin and isoniazid (each 30 and 20 %) was performed. Readings on day 2 showed a positive reaction only to isoniazid (Figs. 1 and 2).

Drug reaction with eosinophilia and systemic symptoms (DRESS) is a severe adverse drug-induced reaction. The syndrome includes a severe skin eruption, fever, hematologic abnormalities (eosinophilia or atypical lymphocytes) and internal organ involvement. The other features are a delayed onset usually after 2-6 weeks after the initiation of drug therapy and a recovery over a period of two weeks of discontinuation of the culprit drug. Diagnostic criteria usually adopted are those of the international Registry of Severe Cutaneous

Adverse Reactions group (RegiSCAR). The most often involved drugs are aromatic anti-epileptics (phenytoin, carbamazepine and phenobarbital) and allopurinol [1].
Isoniazid is a very rare cause of DRESS [2-5]. The etiologic diagnosis is difficult as the result of the allergy workup is usually negative, and a challenge test is not advisable owing to potentially life-threatening consequences [3].

We present a case of isoniazid-induced DRESS in which the culprit agent was identified by positive patch test. Although the patch test was helpful in the diagnosis of DRESS, physicians should be aware of the possibility of life-threatening drug reactions associated with patch testing in DRESS [6].

REFERENCES