Interferon-induced psoriasis flare in a multiple sclerosis case remits with dimethyl fumarate

A 26-year-old woman with a history of psoriasis diagnosed with relapsing-remitting multiple sclerosis (Expanded Disability Status Scale score 1) received SC interferon β-1a as first-line treatment. Interferon was discontinued 4 months later, following a dramatic psoriasis flare with plaques in upper and lower extremities (figure, A–C) and manifestation of Koebner phenomenon along abdominal injection sites (figure, C). Switch to oral dimethyl fumarate (DMF) resulted in complete remission within 14 months (figure, D–F), and the patient remained relapse-free for the last 3 years under DMF treatment. Our case is consistent with the association of multiple sclerosis with psoriasis1 and the overlapping efficacy of fumaric acid esters in both conditions.2

AUTHOR CONTRIBUTIONS
Georgios Tsivgoulis: data collection, study design, drafting and revising the manuscript. Georgios N. Papadimitropoulos: drafting and revising the manuscript. Aristeidis H. Katsanos: data collection, critical comments during manuscript revision. Christina Zompola: data collection, critical comments during manuscript revision. Apostolos Safouris: data collection, critical comments during manuscript revision. Odysseas Kargiotis: data collection, critical comments during manuscript revision. Konstantinos Voumvourakis: critical comments during manuscript revision.

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DISCLOSURE
The authors report no disclosures relevant to the manuscript. Go to Neurology.org for full disclosures.

REFERENCES

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Teaching NeuroImages: Interferon-induced psoriasis flare in a multiple sclerosis case remits with dimethyl fumarate

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Interferon-induced psoriasis flare and remission following switch to dimethyl fumarate

(A–C) Plaques and guttate lesions in the lower (A, B, arrows) and upper (C, arrows) extremities. Confluent plaques demonstrate Koebner phenomenon along the interferon injection sites (C, arrowheads). (D–F) Remission of psoriatic eruptions 14 months after treatment with oral dimethyl fumarate. Residual discoloration in former Koebner-positive sites (E, arrowheads).
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