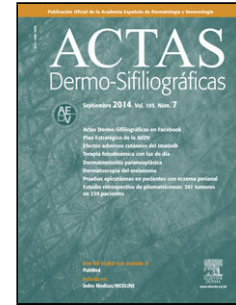


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[[Translated article]]RF - Safety and Efficacy of Isotretinoin for Moderate-to-Severe Seborrheic Dermatitis

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FORO DE RESIDENTES

FR - Isotretinoína como tratamiento de la dermatitis seborreica moderada-grave

[[Translated article]]RF - Safety and Efficacy of Isotretinoin for Moderate-to-Severe Seborrheic Dermatitis

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Palabras clave: Dermatitis seborreica; Isotretinoína; Itraconazol

Keywords: Seborrheic dermatitis; Isotretinoin; Itraconazole

Seborrheic dermatitis (SD) is a chronic, recurrent, and common inflammatory skin disease¹. The pathogenesis of SD may be explained by the colonization of *Malassezia spp*, the presence of lipids on the skin surface, and individual susceptibility. It has a prevalence of 3% and is more common in men¹. In clinical practice, cases of moderate-to-severe SD have been reported that do not respond, or do so incompletely, to a wide variety of treatments: oral or topical antifungals, topical corticosteroids, topical retinoids, or soap containing salicylic acid¹⁻⁴. The recurrent nature of this condition poses a psychological burden for patients¹. Sometimes, isotretinoin is used to treat it, and a good response has been described, which could be explained by the inhibition of cytokine expression, as well as interleukins produced by both keratinocytes and sebocytes, and the inactivation of toll-like receptor type 2^{1,3,5}. At the same time, by reducing the differentiation and proliferation of sebocytes and decreasing sebum production, a reduction in the size of the sebaceous gland is achieved^{1,3,5}.

To synthesize the most relevant studies evaluating the response of SD to isotretinoin, King et al.³ conducted a systematic review in which they selected 7 studies including a total of 229 patients. A total of 52% of the patients were men, and the study population had a mean age of 28 years. The included studies evaluated low doses of isotretinoin (≤ 0.5 mg/kg/day), with a mean of 9.2 mg/day over 4 months. There was an 81% improvement in pruritus (95%CI, 68.5–95.2) in patients on isotretinoin vs 61% (95%CI, 53–76.2) in patients on itraconazole ($p = 0.003$). A total of 96% of the patients showed an improvement in SD with isotretinoin, with 45% achieving a complete response. The 3-month rate of recurrence after discontinuing the drug was 11%.

Yanfei et al.¹ conducted a retrospective study ($n = 48$) that included patients with moderate and severe SD treated with isotretinoin from January 2019 through December 2020. This study adds 2 interesting aspects, such as the comparison of 2 different doses of the drug (26 patients received 20 mg of isotretinoin/day and 22, 10 mg/day of the same drug) and the objective assessment of changes in patients using the Seborrheic Dermatitis Symptom Scale (SDSS), which evaluates the main items of this condition: erythema, scaling, and pruritus—rated from 0 up to 5—with 0 being asymptomatic and 5 very severe⁴. The SDSS was assessed before treatment and 2 months into therapy. The absolute SDSS values before and after treatment were 12.91 ± 1.12 vs 2.28 ± 0.37 . There were no significant differences between taking 10 mg or 20 mg per day. No serious adverse events (AEs) were observed, with cheilitis being the most frequent.

Both studies agree on the areas most affected—trunk, face, and scalp—and that no serious AEs occurred, with cheilitis being the most common AE.

The retrospective design of the studies and the short follow-up of patients are significant limitations in the above-mentioned studies, preventing a clear understanding of the long-term relapse frequency.

Although it is not currently listed as an indication on the drug label, low-dose isotretinoin appears to be an effective, tolerable, and safe treatment for patients with moderate and severe SD.

However, we consider it necessary to conduct prospective, randomized, double-blind, placebo-controlled clinical trials with long follow-ups to evaluate the response of SD to isotretinoin, assessing different doses across different populations.

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