

Frontal fibrosing alopecia coexisting with vitiligo: is there a true association?☆



Dear Editor,

The coexistence of vitiligo and Frontal Fibrosing Alopecia (FFA) has already been reported,^{1,2} however, it is still uncertain if there is a true association between both conditions.

A 58-year-old woman was referred to treat vitiligo, which she had for 6 years. Upon examination, we noticed hair rarefaction on the frontal region of the scalp, on the same topography of achromic patches of vitiligo (Fig. 1A). A scalp biopsy showed interface dermatitis restricted to the pilous infundibulum with numerous apoptotic cells and incipient perifollicular fibrosis, which confirmed the FFA diagnosis. Both conditions manifested after menopause. On follow-up, eyebrows rarefaction was noted concomitant with a growing vitiligo patch (Fig. 1B).

A 75-year-old woman, who had a diagnosis of vitiligo since she was 40 years old, presented with complete depigmentation of the skin. She also had frontal alopecia with an

atrophic aspect of the scalp, a pseudo-fringe sign and almost complete loss of hairs in both eyebrows (Fig. 2).

FFA is a chronic lymphocytic cicatricial alopecia that characteristically affects the frontotemporal hairline and frequently also the eyebrows. It is seen predominantly in postmenopausal women, and it is more common in Caucasian patients. Some authors consider FFA a possible clinical variant of Lichen Planus (LP),³ due to the similarity of histopathological findings. Since FFA progresses very slowly, it is often difficult to precisely define when it first began.⁴

Vitiligo is an autoimmune disease characterized by a selective loss of melanocytes, which causes cutaneous depigmentation. It is clinically characterized by achromic macules. Genetic and environmental factors are involved in its development.⁵ The association between them has already been described.^{1,2} More recently, in a cohort of 20 patients diagnosed with FFA, two of them presented also with vitiligo.¹

Vitiligo has been associated with LP, which might be explained by the finding of a CD8+ cytotoxic inflammatory infiltrate in both conditions.¹ The association between FFA and vitiligo might lie in the fact that FFA could be a variant of lichen planopilaris.³ It is known that melanocytes

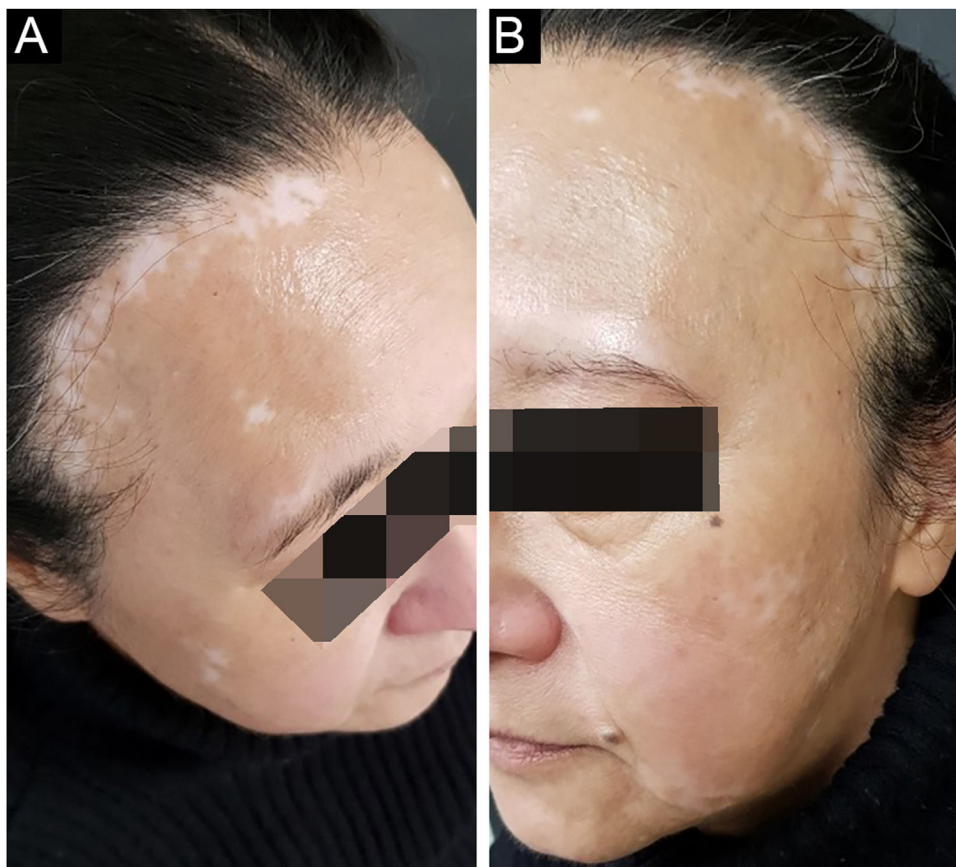


Figure 1 Clinical findings of patient 1. (A) Hair rarefaction on the frontal region of the scalp, coexisting with achromic macules of vitiligo. (B) Eyebrows rarefaction on a growing vitiligo macule

☆ Study conducted at the Hospital de Clínicas de Porto Alegre, Porto Alegre, RS, Brazil.



Figure 2 Clinical findings of patient 2. (A-B) Complete depigmentation of the skin, accompanied by frontal alopecia with an atrophic aspect of the scalp, pseudo-fringe sign and almost complete loss of hairs in both her eyebrows

and keratinocytes form functional units. So it has been postulated that since keratinocytes in the outer root sheath are continuous with epidermal keratinocytes, they probably express the same adhesion molecules in which the lymphocytes attach,² leading to a lymphocytic attack on the melanocyte-keratinocyte units and explaining the physiopathology of both diseases. Additionally, both vitiligo and LP are known to present the Köbner phenomenon, which might explain the presence of both in the same topography.¹

The concomitant onset of a vitiligo patch and FFA on the eyebrow of our first patient reinforces that there might be an association between them. Furthermore, the second patient who had a more extensive case of vitiligo also had a more advanced case of FFA, which might strengthen the hypothesis that the pathophysiology of both conditions may be linked. However, more studies are required to elucidate the exact mechanisms through which these two relate.

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Authors' contributions

Jéssica Pauli Damke: The study concept and design; data collection, or analysis and interpretation of data; writing of the manuscript or critical review of important intellectual content; data collection, analysis and interpretation; intellectual participation in the propaedeutic and/or therapeutic conduct of the studied cases; critical review of the literature; final approval of the final version of the manuscript.

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Conflicts of interest

None declared.

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Frontal fibrosing alopecia: report of four sisters[☆]



Dear Editor,

Frontal fibrosing alopecia (FFA) belongs to the group of lymphocytic cicatricial alopecias and was first described in 1994 by Kossard.¹ Clinically, retraction of the frontotemporal hair implantation line is observed, often associated with loss of eyebrows and, in some cases, loss of hair from other parts of the body.²

There is a predilection for the female sex and Caucasian individuals, particularly in the postmenopausal period.³ The

first reports of FFA in individuals from the same family appeared in 2010 when the occurrence of the disease was described in two sisters.⁴ The etiopathogenesis of FFA is still unknown, but the genetic predisposition has been reinforced by its association with some class I human leukocyte antigen (HLA) alleles. As the incidence has been increasing over the years, it is postulated that current environmental triggers may act on a genetic predisposition, driving the th1/JAK-STAT inflammation profile in FFA.²

This family consists of five black sisters, aged between 56 and 66 years, all of which have already gone through menopause. The youngest of them came to the dermatology outpatient clinic complaining of thinning hair and, after

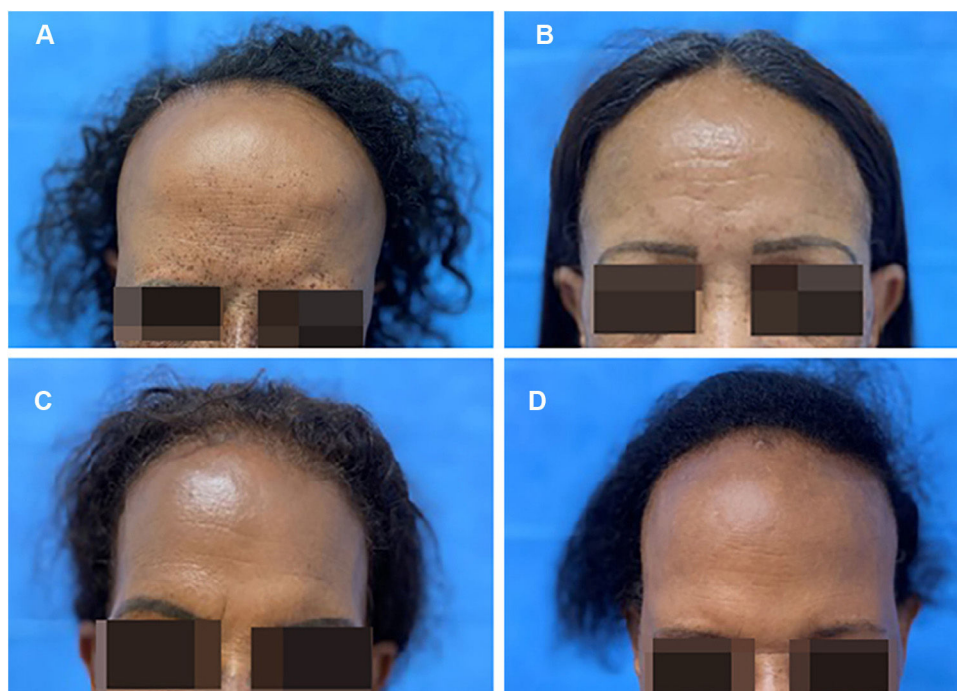


Figure 1 (A–D) Clinical presentation of the four sisters affected by frontal fibrosing alopecia (FFA)

[☆] Study conducted at the Complexo Hospitalar Padre Bento de Guarulhos, Guarulhos, SP, Brazil.