Kyrle’s Disease in a Patient with Delusions of Parasitosis

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Acquired perforating disorders are a group of uncommon skin conditions characterized by transepidermal extrusion of altered dermal material, often associated with diabetes mellitus and chronic kidney failure. Delusional parasitosis is a primary psychiatric disorder in which affected patients have fixed, false beliefs that their skin is infested by parasites, in the absence of any evidence supporting their statements.

A 69 year old male patient addressed the Dermatology Department for a skin eruption consisting of multiple umbilicated keratotic papules with a generalized distribution. The patient believed that the lesions were produced by small parasites entering and exiting his skin. The psychiatric examination established the diagnosis of delusions of parasitosis.

This is the first reported case of Kyrle’s disease associated with delusions of parasitosis. There is no evidence supporting the hypothesis that delusions of parasitosis might be a predisposing factor for Kyrle’s disease. However, we believe that the pruritic dermatosis might have triggered the delusions of parasitosis due to the associated pruritus. On the other hand the constant excoriations and traumatizing of a skin prone to develop idiopathic Kyrle’s disease in the attempt to remove the parasites prevented the complete resolution of the lesions.

Key words: Kyrle’s disease, delusional parasitosis, psychiatric disorder, pruritus, Morgellons disease.

INTRODUCTION

Acquired perforating disorders are a group of uncommon skin conditions characterized by transepidermal extrusion of altered dermal material, often associated with diabetes mellitus and chronic renal failure [1-3].

Delusional parasitosis is a primary psychiatric disorder in which affected patients have fixed, false beliefs that their skin is infested by parasites, in the absence of evidence supporting their statements [2, 4].

CASE REPORT

A 69 year old male patient addressed the dermatology department for a skin eruption consisting of multiple umbilicated keratotic papules with a generalized distribution. The lesions were moderately pruritic and had occurred 3 years before presentation. The patient believed that they were produced by small parasites entering and exiting his skin. He picked on skin lesions and collected debris from his skin, which he believed were parasites and their eggs, in a box. The patient had been treated for scabies with no clinical improvement. On clinical examination we noticed multiple umbilicated keratotic follicular and perifollicular papules with individual central keratotic plug, with a generalized distribution, as well as multiple generalized shallow depressed scars, probably following resolution of the formerly described papules.

The complete blood count, biochemical tests, fasting blood glucose level and the glucose tolerance test were within normal range. Hepatitis B, C and HIV testing turned out negative. A psychiatric evaluation was recommended and the patient was diagnosed with delusions of parasitosis.

A biopsy was taken from one of the lesions (Figures 1, 2) and confirmed the clinical suspicion of Kyrle’s disease. He was treated with Clindamycin, antihistamines and tretinoin, with acceptable results. He was also referred to the psychiatric department for antipsychotic treatment.
Kyrle’s disease was described by Kyrle in 1916 as “hyperkeratosis follicularis et para-follicularis in cutem penetrans”, and classified as a disorder of keratinization with follicular and para-follicular hyperkeratotic lesions [5, 6].

It usually occurs in adults aged between 30 and 50 years. It affects men and women with a similar frequency [7]. A study performed on patients with APD showed that 86.4% had at least one associated systemic disease, most commonly chronic renal failure (72.7%) and diabetes mellitus (50%) [1, 8].

The pathogenesis of the disease is unknown but superficial trauma is thought to be an inciting factor in patients susceptible to develop APD while vasculopathy and dermal deposits of exogenous materials seem to be predisposing factors [1].

The differential diagnosis includes prurigo nodularis, arthropod bites, porokeratosis, scabies, folliculitis, keratosis pilaris, multiple keratoacanthomas and lichen planus [1, 2, 5].

The treatment is difficult as no therapy proved very effective. Topical and systemic retinoids, intradermal corticosteroids, UVB phototherapy, antihistamines, Allopurinol, Doxycycline, Metronidazole, Clindamycin can be used [1, 2, 13-15].

Delusional parasitosis (Ekbom syndrome, acarophobia, delusional infestations, Morgellons) is a monosymptomatic hypochondriacal psychosis characterized by the patient’s false conviction that he is infested by parasites, insects or small animals. According to the Diagnostic and Statistical Manual of Mental Disorders, fifth edition (DSM-5), in order to be diagnosed with this condition patients must present a delusion that lasts at least one month, in the absence of any other psychiatric disorder, substance abuse or any organic cause and, if any other mood disorder is diagnosed, it must be of shorter duration than the delusion [16-18].

Patients with delusions of parasitosis most often address the dermatologist for their condition and only rarely the psychiatrist [2, 4, 19].

With regard to the physical findings, some patients present no lesions while others show excoriations, ulcers, nodules or rashes produced by nails, tweezers, knives or other sharp objects in the pursuit for parasites [2, 4, 17, 19].

Before establishing the diagnosis of delusions of parasitosis a real infestation must be excluded.

The treatment is challenging and a close collaboration between the dermatologist and the psychiatrist is recommended [2,4].

CONCLUSION

We report a rare case of Kyrle’s disease in a patient whose only associated disorder is psychiatric, namely delusions of parasitosis. Kyrle’s disease is very often associated with chronic kidney failure and/or diabetes mellitus and psychiatric disorders...
have not been reported in the medical literature as possible predisposing factors. In the case we are presenting the two afflictions occurred almost simultaneously. We believe that the presence of the two disorders in the same patient is coincidental. However, we hypothesize that the perforating disorder might have triggered the delusions of parasitosis due to the presence of pruritus. On the other hand, the constant excoriations and traumatizing of a skin prone to develop idiopathic Kyrle’s disease in the attempt to remove the parasites prevented the lesions from healing. A close collaboration between the dermatologist and the psychiatrist is of paramount importance in resolving both the cutaneous disorder and the psychiatric disease.

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REFERENCES


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