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Huriez a Squamous Cell Carcinoma Prone Syndrome: A Case Report

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Abstract

This report is to describe a case of a rare autosomal dominant genodermatosis known as Huriez syndrome in a 41 year-old female patient presenting with recurrent skin lesions. Following investigations, the patient was diagnosed to have Huriez syndrome. She was planned for excision and follow up in the plastic surgery, dermatology and oncology departments.

Huriez syndrome, also known as 'sclerotylosis' a rare autosomal dominant genodermatosis which has been first reported in France by Huriez et al. later it has been reported in India, Japan, Tunisia Germany, İtaly and Turkey.

Introduction

Huriez syndrome, also known as 'sclerotylosis' a rare autosomal dominant genodermatosis which has been first reported in France by Huriez et al. later it has been reported in India, Japan, Tunisia Germany, İtaly and Turkey [1-5].

The syndrome manifests as scleroatrophy of distal extremities, hypoplastic nails palmoplantar keratoderma and an increased risk of the development of Squamous Cell Carcinoma (SCC) [4]. In the case of the development of SCC it is featured by an early onset mostly in 3rd to 4th decades of life, and a more aggressive behavior [5].

Case Presentation

The patients history dates irst to 13 years prior to her last visit, when she irst presented to the dermatology clinic of Kahramanmaraş Sutcu Imam University Hospital, Kahramanmaras-Turkey, complaining of brown discolored macular lesions as well as hyperkeratotic squamous erosions in the face and on the plantar aspect of the foot, the patient was prescribed PREDNOL-A cream as well as sunblock. Two months later the patient visited the dermatology clinic for the same complaint where she was prescribed salisilic acid, vaseline,

flurokortolone caproate, balmandol oil and a urea based lotion. 11 years later the patent was referred from a Private clinic to KSÜ Dermatology clinic with a 3*4 cm lesion in the medial aspect of the right foot suspicious of Bowen disease on punch biopsy. Cardiology consultation was requested and no cardiologic pathology was found. The patient got referred to the department of plastic Surgery in KSÜ hospital for potential excision and tissue defect closure.

The lesion was excised with a 1 cm margin and the defect was closed by a split thickness skin gra t from the anteriolateral aspect of the right things.

The pathological diagnosis of the lesion was squamous cell carcinoma with lesions of squamous cell in situ the margin were tumor free, perineural and intraneural invasion was present, however lymphovascular invasion was absent as shown in Figure 3, following the epithelialization of the wound the patient was referred to oncology department for follow-up.

2 years later the patient visited the dermatology clinic with chief complaint of issures in her right hand, the patient was referred to the plastic surgery department for diagnostic excision.

The lesion was excised with a 1 cm margin and the defect was closed by a full thickness skin gra t from the le t arm.

The pathological report revealed focal regions of mild-moderate degrees of dysplasia in the squamous epithelium with severe, chronic in lammation in the dermis as shown in Figure 3. Surgical margins were negative, there was no invasion detected for the diagnosis of carcinoma P53 was sparse positive, Kİ 67 was positive in the basal layer.

Following the epithelialization of the wound the patient was referred to on oncology department for follow up.

Cantella asiatica cream, salisilic acid based cream, olive oil, hyaluronic acid based cream, vaseline and urea based cream were prescribed by the dermatology clinic.

The patient is a result of a second degree consanguinal marriage and her Sister suffers from similar but milder symptoms.

Laboratory investigations revealed vitamin D deficiency, iron deficiency, hypothyroidism, Anti DS DNA, ANA, Anti-scl70, and Anti ssDNA were negative (Figures 1-4).



Figure 1: Showing scleroatrophy, palmoplantar keratoderma of the hands and the defect closed by FTSG on the right hand.



Figure 2: Showing scleroatrophy of the feet, hypoplastic nails, palmoplantar keratoderma and the defect closed by STSG on the right foot.

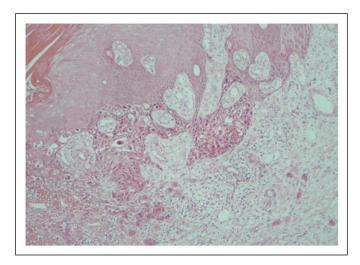


Figure 3: Showing squamous cell carcinoma originating from the squamous epithelium and infiltrating the dermis, consisting of atypical pleomorphic squamous epithelium islands with large nuclei (H& E X100).

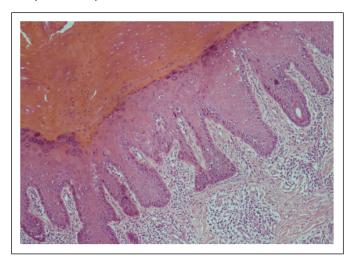


Figure 4: Mild-to-moderate dysplasia is observed, which starts in the basal layers of the squamous epithelium, and reaching the middle layers at some points, consisting of atypical squamous cells with large nuclei with prominent nucleoli (H&E X100).

Results and Discussion

Huriez syndrome is a rare autosomal dominant genodermatosis characterized by a triad of congenital scleroatrophy of distal extremities, Palmoplantar Keratoderma (PPK) and hypoplastic nails [2,3]. Chromosomal locus of Huriez syndrome has been found to be on the 10.5-Mbregion on chromosome 4q [4]. Haploinsufficiency of the Skin specific SMARCAD 1 isoform accounts for this syndrome. SMARCAD1 has two isoforms; the long isoform has been shown to have a role in the 5'-3' resection of DNA ends which initiate the high-fidelity

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homologous recombination repair of DNA double stranded breaks. The short isoform has two CUE1 domains which are absent in Huriez syndrome, these domains take part in the

recruitment of DNA repair factors.

The histopathology of the skin in Huriez syndrome is epidermal nonspecific and includes atrophy hypervascularity, sparse lymphocytic infiltrate as well as pigment laden macrophages [2]. Patients with syndrome have a more than 100 fold increased risk for the development of SCC, where SCC arises in alound 15% of patients with Huriez syndrome. Moreover SCC in Huriez syndrome is characterized by its early onset and aggressive behavior [3].

Pathological P53 staining of atypical keratinocytes suggest a positive correlation of p53 mutation and the development of SCC in Hureiz syndrome.

The differential diagnosis includes scleroderma and dyskeratosis congenita. Topical emollients, keratolytics as well as oral and topical retinoids can be used in the treatment.

Conclusion

Huriez syndrome must be always considered in the differential diagnosis of patients presenting with scleroatrophy of the distal extremities. High level of suspicion of SCC is essential for proper and early treatment to prevent devastating consequences of the aggressive disease. Therefore a multidisciplinary team of Plastic Surgeons, dermatologists, geneticists and oncologists is vital in the treatment.

No genetic studies were performed in our case and this was the limitation in our study.

Clinical phenotype, tumor risk in patients can be modified by environmental exposures, ethnic differences or modifier gene [4,6].

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