


Unilateral Facial Circumscribed Hyperhidrosis

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A case of a 15-year-old male with unilateral facial circumscribed hyperhidrosis is reported. No morphological anomalies of the eccrine sweat glands could be noted. The results obtained with local applications of aluminium hexachloride in 20% alcoholic solution are discussed together with the few previous cases appearing in the literature. Key words: Hemifacial topography. (Received January 15, 1985.)

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Unilateral circumscribed hyperhidrosis, sometimes idiopathic, is an extremely uncommon finding. The present paper describes a characteristic observation with hemifacial topography.

CASE REPORT

A 15-year-old male without previous pathological antecedents, complained of sweating episodes limited to the right side of his face. These had first appeared spontaneously 18 months previously. During the interim period, the hyperhidrotic episodes became increasingly frequent and intense, reaching daily periodicity. The crises were exacerbated by heat and situations of mental stress.

During exploration it was observed that the hyperhidrosis was not accompanied by hemifacial reddening or by excessive salivation, lacrimation or headaches. The affected zone was absolutely normal in appearance, colour and texture (Fig. 1). Sweating was within normal limits in the rest of the skin. A pilocarpine injection gave an immediate and abundant glandular response on the affected side of the face, but less so on the other. The same result was observed after heat-induced provocation (Fig. 2). Detailed neurological, ocular, bone and complementary studies did not reveal any anomalies.

Two biopsies were performed from the right preauricular area and from healthy skin and no anomalies were detected. The eccrine sweat glands were morphologically normal in both biopsies.

Topical daily application of a 20% alcoholic solution of aluminium hexachloride led to some temporary improvement, but the symptoms relapsed after discontinuation of treatment.

DISCUSSION

The first observations of unilateral circumscribed hyperhidrosis were reported by Tarlov and Herz (11), Tankel (10), Pearce (8), and Shafar (9), and since 1971 by Verbov (12), Cunliffe et al. (2), Bedi and Buthani (1), Dworin and Sober (3), and Hatzis et al. (7).
Regardless of whether the process is hemifacial, thoracic or localized to the limbs, in plaque form, segmentary or in zone form, it is undoubtedly a very rare finding. It may be an atypical manifestation of gustatory sweating\(^2\), it may occur as the symptom of a nervous system disease: hypothalamic tumour, syringomyelia, tabes dorsalis. It may be due to a peripheral compressive neuritis\(^4\), or be a result of surgical removal of stellate ganglion\(^5\), or, finally, it may be idiopathic, as in our own case.

In agreement with Lapierre\(^6\), we consider the idiopathic form of unilateral circumscribed hyperhidrosis to be a functional nevus eventually resulting in a secondary glandular hypertrophy. The pathogenic mechanisms were described in detail by Hatzis et al. in 1980\(^7\), but are uncertain. They believe, in summary, that the nervous impulses are delivered from the hypothalamic centres of the thermoregulation, and further that the circumscribed and paroxysmal nature of the hyperhidrosis is due to several and different direct stimuli or to an axon reflex at the peripheral level. The end of the crises would be due to sweat gland fatigue and secondarily to a mechanical obstruction of the sweat ducts by hydration and swelling of stratum corneum during the crises\(^2\).

In localized hyperhidrosis it is possible to give a topical treatment with methenamine, glutaraldehyde and anticholinergic substances. According to the direction of Dvorin et al.\(^3\), our patient was treated with a 20% alcoholic solution of aluminium hexachloride which yielded a direct, though temporary response.

REFERENCES
Lupus erythematosus-like Eruption from Captopril

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A patient on Captopril treatment is reported. This patient developed a dermatitis that clinically recalled a gyrate subacute lupus erythematosus and showed lichenoid features on light microscopy. Key words: Captopril; Drug eruption. (Received February 25, 1985.)

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Fifteen per cent of the patients treated with the antihypertensive agent Captopril experience an adverse cutaneous reaction that may present with diverse morphology. We describe a patient who developed a distinctive annular erythematosus-papular eruption on the sun-exposed areas that resembled subacute lupus erythematosus.

CASE REPORT

A 53-year-old man with a history of diabetes and heart failure was on nifedipine 10 mg/day, digoxine 0.125 mg/day, tolbutamide 500 mg b.i.d., furosemide 12.5 mg/day and Captopril (Capoten®, Squibb) 50 mg b.i.d. After six months of such treatment, itchy, dark-red colored, 3-5 mm large papules developed on the sun-exposed areas. The largest annular lesions derived from the coalescence of the original papules and, having a slight central depression with scaling, had a lupus erythematosus-like appearance. Within 48 hours after Captopril withdrawal the eruption subsided to relapse ten days later when the patient took one more tablet of the drug.

Histopathology (Fig. 1) revealed a lymphocytic infiltrate in the upper dermis invading and disrupting the epidermis in a lichenoid fashion. Direct immunofluorescence showed a linear deposition of fibrinogen along the dermo-epidermal junction and clusters of IgA and IgG fluorescent bodies in the upper dermis.

The following laboratory tests were negative or within normal values: complete blood cell count, ESR, BUN, creatinine, C reactive protein, rheumatoid factor, serum albumin, gamma globulins, LE cell phenomenon. ANA were absent at 1/40 dilution. Glucose blood level was increased to 231 mg% and so was glycosuria (3 g%).