Isolated Anterior Cervical Hypertrichosis

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Abstract. Anterior cervical hypertrichosis was described by Trattner and coworkers in 1991. It consists of a «tuft» of hair at the anterior cervical level just above the laryngeal prominence. To date, only 28 cases of anterior cervical hypertrichosis have been reported. Although it is normally an isolated finding, it may be associated with mental retardation, hallux valgus, retinal disorders, other hair disorders, facial dysmorphism, or sensory and motor peripheral neuropathy. We report the case of a 27-year-old woman who presented with this condition as an isolated finding.

Key words: anterior cervical hypertrichosis, localized hypertrichosis, primary hypertrichosis.

Introduction

The term hirsutism refers to the presence of a masculine distribution of hair in women, whereas hypertrichosis is used when there is only an increase in the quantity of hair. Primary hypertrichosis is classified into congenital or acquired, depending on the age at onset, and into localized or generalized, depending on extension. There are 4 conditions included in localized congenital hypertrichosis: hypertrichosis cubiti, anterior cervical hypertrichosis, posterior cervical hypertrichosis, and lumbosacral hypertrichosis.1,2

We present the case of a 27-year-old woman with anterior cervical hypertrichosis, seen in our centre. This is possibly an underdiagnosed condition, and we have found only 28 cases published to date2-13; however, it must be taken into consideration in order to exclude associations and avoid laboratory and hormonal studies only necessary in cases of suspected hirsutism.

Case Description

The patient was a 27-year-old Brazilian woman with no past history of interest. She was seen for a cosmetic problem caused by an increase in the hair on the anterior aspect of the neck, present since the first year of life. The patient referred no trauma or inflammation and had not applied corticosteroids or other medication to the area. She did not remember any family history of a similar disorder or of consanguinity.

On physical examination, multiple terminal hairs were observed on normal skin in the anterior cervical region, just above the laryngeal prominence (Figure). Examination of the rest of the skin and skin adnexa was normal, except for mild acanthosis nigricans on the neck and in the axillas.

The diagnosis of anterior cervical hypertrichosis was made based on the clinical findings. Neurological and ophthalmological examinations were normal. The various
hair removal techniques were explained to the patient, who chose laser treatment as it is a potentially definitive method.

**Discussion**

Hypertrichosis is the growth of an increased quantity of excessively thick hair on any part of the skin surface; it can affect both men and women and, in general, there is no underlying hormonal cause. It should not be confused with hirsutism, which is the growth of terminal hair with a masculine distribution occurring in women and sometimes associated with other signs of virilization.2,14

Hypertrichosis is often the result of adverse drug reactions, recurrent trauma, or underlying hamartomas, or

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**Table. Patients With Anterior Cervical Hypertrichosis and the Associated Abnormalities**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Number of Patients</th>
<th>Familial/Sporadic</th>
<th>Sex</th>
<th>Associated Abnormalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vashi et al2</td>
<td>3</td>
<td>Sporadic</td>
<td>2 M/1 F</td>
<td>No</td>
</tr>
<tr>
<td>Trattner et al3, Garty et al3</td>
<td>3</td>
<td>Familial</td>
<td>1 M/2 F</td>
<td>Peripheral neuropathy (3) Hallux valgus (3) Spina bifida Kyphoscoliosis Optic atrophy Retinal changes</td>
</tr>
<tr>
<td>Tsukahara and Kajii4</td>
<td>7</td>
<td>Familial</td>
<td>3 M/4 F</td>
<td>Turner syndrome</td>
</tr>
<tr>
<td>Lee et al6</td>
<td>3</td>
<td>Familial</td>
<td>1 M/2 F</td>
<td>No</td>
</tr>
<tr>
<td>Nanda et al7</td>
<td>6</td>
<td>5 familial (2 families)/1 sporadic</td>
<td>6 F</td>
<td>No</td>
</tr>
<tr>
<td>Braddock et al8</td>
<td>1</td>
<td>Sporadic</td>
<td>F</td>
<td>No</td>
</tr>
<tr>
<td>Monteagudo Sánchez et al9</td>
<td>1</td>
<td>Sporadic</td>
<td>F</td>
<td>No</td>
</tr>
<tr>
<td>Heitink et al10</td>
<td>1</td>
<td>Sporadic</td>
<td>F</td>
<td>No</td>
</tr>
<tr>
<td>Thienpont et al11</td>
<td>1</td>
<td>Sporadic</td>
<td>F</td>
<td>Mental retardation Facial dysmorphism Obesity Hypermetropia Low hairline on back of neck Lumbosacral hypertrichosis</td>
</tr>
<tr>
<td>Corona-Rivera et al12</td>
<td>1</td>
<td>Sporadic</td>
<td>M</td>
<td>Mental retardation Abnormal EEG Microcephaly Hallux valgus Inverted nipple Dorsal hypertrichosis Synophrys</td>
</tr>
<tr>
<td>Ardinger13</td>
<td>1</td>
<td>Sporadic</td>
<td>M</td>
<td>Peripheral neuropathy Delayed development</td>
</tr>
<tr>
<td>Monteagudo et al (present case)</td>
<td>1</td>
<td>Sporadic</td>
<td>F</td>
<td>No</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>29</strong></td>
<td><strong>18 familial (5 families)/11 sporadic</strong></td>
<td><strong>9 M/20 F</strong></td>
<td><strong>22 No</strong></td>
</tr>
</tbody>
</table>

*The number of patients affected is specified when there is more than one. Abbreviations: EEG, electroencephalogram; F, female; M, male.
eighteen of these patients came from 5 families 3-7 and predominance in women (20 women to 9 men).2-13

anterior cervical hypertrichosis described to date, with a have also been suggested.

valgus, 3,5,12 kyphoscoliosis, 3,5 spina bifida, 3,5 facial abnormalities was an isolated finding, 2,4,6-10 and associated neurological sequelae.

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laryngeal prominence. Its etiology is still unknown. The

tuft of hair in the anterior cervical region, just above the

autosomal dominant or X-linked recessive.

has been associated with kyphoscoliosis. Inheritance is

malformations such as facial asymmetry.

is often a marker of spinal dysraphism, hence the importance of early study to avoid possible neurological sequelae.

2. Hypertrichosis cubiti (hairy elbow syndrome) is observed at birth or during infancy; it is bilateral and, in half of the cases, is associated with a low stature or other malformations such as facial asymmetry.

3. Posterior cervical hypertrichosis is present at birth and has been associated with kyphoscoliosis. Inheritance is autosomal dominant or X-linked recessive.

4. Anterior cervical hypertrichosis.1-3

The aim of treatment in hypertrichosis is cosmetic, and the available methods include bleaching or temporary or permanent methods of hair removal, such as shaving, physical or chemical depilation, electrolysis, and laser or other light sources. Antianrogen treatments are not used.2,6

Anterior cervical hypertrichosis is a condition described by Trattner and collaborators3 in 1991, and consists of a tuft of hair in the anterior cervical region, just above the laryngeal prominence. Its etiology is still unknown. The absence of underlying abnormalities of the larynx or thyroid indicates that it is not a secondary defect, as in the case of occult spina bifida, for example.11 In general, it has an autosomal dominant inheritance,6,8,12,13 although autosomal recessive5,6,7 and X-linked dominant inheritance4 have also been suggested.

Including our patient, we have only found 29 cases of anterior cervical hypertrichosis described to date, with a predominance in women (20 women to 9 men).2-13 Eighteen of these patients came from 5 families3-7 and there were 11 sporadic cases.2,7-11 In 22 cases, the abnormality was an isolated finding,2,6,10 and associated disorders were detected in 7 cases (24%).5,11-13 Important associated abnormalities reported include neurological abnormalities (abnormal electroencephalogram, peripheral sensory or motor neuropathy, and mental retardation),3,5,7,11-13 ophthalmologic disorders (optic atrophy, retinal changes, and hypermetropia),3,5,11 hallux valgus,3,5,12 kyphoscoliosis,3,5 spina bifida,3,5 facial dysmorphism,11 microcephaly,12 low stature,4 synophrys,12 lumbosacral or dorsal hypertrichosis,11,12 and Turner syndrome4 (Table). The proportion of patients with abnormalities is possibly overestimated due to the tendency to publish these associations and due to the underdiagnosis of the condition as an isolated defect. It is unclear if many or all of these associations are fortuitous, but some authors recommend radiological and neurological studies in all patients with anterior cervical hypertrichosis and in their relatives.12

Conflicts of interest

The authors declare no conflicts of interest.

References


