Case Report

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Hyperpigmented Lip Corner; An Unusual presentation of Acanthosis Nigricans: A Case Report

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Abstract

Acanthosis nigricans is a fairly common skin pigmentation disorder in obese people. This lesion may be a sign of a more serious health problem such as metabolic syndrome and some of them malignancy. Over the past several decades, while obesity and metabolic syndrome were a growing health problem across the developed countries, we need to be more cautious and alert about this lesion in routine clinical practice at internal medicine clinics. This case highlights the importance of AN on the lip corners where AN is rarely located.

Keywords: Unusual presentation; Acanthosis Nigricans; Obesity

Introduction

Acanthosis nigricans (AN) is one of the common dermatologic manifestations of obesity and insulin resistance. These lesions are characterized thickening and the hyperpigmented darkened lesion and they are located in the flexuralare as of the skin or on the mucosal surfaces. These darkened lesions are the typical settlement symmetric in axilla, neck, and groin. Besides obesity and endocrine syndromes, the other common reasons for AN are genetic, auto immune, paraneo plastic conditions, some medical treatment, and idiopathic [1,2]. In this report, we present a patient with AN who has type 2 diabetes, hypertension, hyperlipidemia, and obesity. Her lesions were described on the neck and on the bilateral lip corners where AN is not usually located.

Case Presentation

Figure 1: Anterior view of the lip corners.

Figure 2: Lateral view of the neck.
In this case report, a 56-year-old woman with the hyperpigmented, thickened lesions on the neck and on the bilateral lip corners was presented for an evaluation. Her lesions were first recognized almost one-year ago, and various types of topical creams were used for treatment. Her examination report revealed that she is obese (body mass index: 32kg/m²) and there were hirsutism, a general increase in pigmentation throughout the body, thickening skin by the brown-velvety appearance of the lip corners and the neck (Figure 1 & 2). The similar skin lesions were present in her intertriginous regions. Acanthos and marked papillomatosis were detected by biopsy.

She didn’t have the history of type 2 diabetes, hypertension, hyperlipidemia, and malignancy before. Her anthropometric measures and metabolic evaluation were compatible with the metabolic syndrome, type 2 diabetes, hyperinsulinemia, insulin resistance, and metabolic syndrome [3,4]. AN may be a sign of some type of cancer when it is evident in an obese person. Therefore, when AN is diagnosed, along with metabolic disorders, malignancy should be eliminated too. This case didn’t have any malignant lesion, but she had metabolic syndrome and insulin resistance (type 2 diabetes).

AN can be observed in the non-classic locations such as the face, eyelid, circumference of the umbilicus, palmo plantar region, external genital area, breast areola and mucosal involvement as we observed in our case [5]. This case highlights the importance of AN on the lip corners where AN is rarely located. This case shows that AN can be located in non-classical regions on the skin or mucosal surface and we need to be more cautious and alert in routine clinical practice at internal medicine clinics.

**Discussion**

Over the past several decades, while obesity and metabolic syndrome are a growing health problem across the developed countries, obesity-related co-morbidities such as metabolic, cardiovascular, carcinogenic, musculo skeletal and cutaneous disorders have been increased. AN is related to cancer as well as obesity, and endocrinology is orders including diabetes mellitus, hyperinsulinemia, insulin resistance, and metabolic syndrome [3,4]. AN may be a sign of some type of cancer when it is evident in an obese person. Therefore, when AN is diagnosed, along with metabolic disorders, malignancy should be eliminated too. This case didn’t have any malignant lesion, but she had metabolic syndrome and insulin resistance (type 2 diabetes).

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