Eagle’s syndrome
Síndrome de Eagle

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Eagle’s syndrome (ES) consists of craniofacial and neck pain due to elongation of the styloid process and/or calcification of the stylohyoid ligament. The normal length of the styloid process ranges from 2 to 3 cm and it is hardly palpable. ES is usually an asymptomatic disease that mostly affects women aged 30 to 50 years.

According to Eagle, two types of the syndrome have been described: (A) the classic syndrome characterized by pain in the tonsillar fossa, sometimes associated with dysphagia and hypersalivation, and often followed by tonsillectomy and (B) the styloid–carotid syndrome: the styloid process compresses the carotid arteries and exerts particular pressure on its sympathetic fibers. This subtype is not correlated with tonsillectomy.

We report the case of a young patient with ES and a styloid process of normal length, but with significant ligament calcification.

CASE

A 20-year-old female patient presented at the Neurology Service with a continuous, daily, pressure-type pain on the left side of the neck radiating to frontal and temporal regions.
There was neither history of trauma or previous surgery, nor identifiable trigger points. Physical examination revealed pain on tonsillar fossa at palpation, as well as on the left side of the neck. The neurological examination including the cranial nerves was normal. Three-dimensional computed tomography (CT) scan of the neck showed bilateral stylohyoid ligament calcification of 1.9 cm on the right side and 1.2 cm on the left side (Fig 1). The length of the styloid process added to the length of the calcification was, respectively, 4.1 and 3.7 cm (Fig 2). The symptom of pain was solved after administration of ibuprofen for two months.

**DISCUSSION**

ES is a rare condition of unknown pathophysiology and etiology. It can be idiopathic, congenital (due to persistence of cartilage elements of the precursors of the styloid process) or acquired.

Approximately 4% of the population has elongated styloid process, but only 4 to 10.3% of this group has its symptoms.

Although many authors believe that this syndrome is more typical in adult life, the symptoms’ onset of the patient herein described began in her 20s.

Treatment for ES includes non-steroidal anti-inflammatory drugs, steroids and applications of anesthetic in the tonsillar fossa, in addition to surgical approach consisting of removal of the styloid process intra or extraorally.

The patient reported full improvement with non-steroidal anti-inflammatory drugs. However, it is not known whether the symptoms may return in old age.

Dissection, aneurysm and pseudoaneurysm of the carotid artery may occur in the course of ES. Further studies are needed to investigate the relationship between the elongated styloid process and the development of such complications.

**References**