Cervical Rib and Possible Neurological Complications

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Keywords
Cervical rib, Thoracic outlet syndrome (TOS), Radiography

Case Scene
A chest radiograph performed during a health check-up of a 42-year-old woman showed a near normal appearance; however, there was an asymmetric bony structure in the right upper quarter, which connects with the cervical vertebrae (Figure 1). There was no pain, numbness or tingling, muscles wasting or weakness, or cold hands, swelling, or blanching. The lady had no specific complaints and her physical examination was unremarkable.

Figure 1: Chest radiograph shows an asymmetric bony structure in the right upper quarter, indicating a right cervical rib (arrows).
Case Report  Te-Chun Shen

In the present case, a right cervical rib, which arises from the seventh cervical vertebra, can be seen. Cervical rib is estimated to be 0.5-1% prevalence in the general population [1]. Although cervical ribs are usually asymptomatic, they can cause thoracic outlet syndrome (TOS) by compression of the brachial plexus or subclavian vessels [2]. TOS is usually classified into arterial, venous, and neurogenic types and neurogenic TOS is the most common, accounting for >90% of patients [3]. TOS may lead to severe and irreparable complications such as muscle wasting, stroke, and critical ischemic limb [4,5].

Competing interests
There are no competing interests.

Contributor-ship
Wei-Tse Hsia, Chun-Han Liao, and Te-Chun Shen wrote the report. Te-Chun Shen provided the picture and planned the report.

References