# **Image**



# Dysphagia Caused by Right-Sided Aortic Arch and Lusorian Artery

Julio Gil, Bruno Marmelo, Davide Moreira, Luís Ferreira dos Santos, José Costa Cabral Servico de Cardiologia, Centro Hospitalar Tondela Viseu

This case report describes a 75-year-old male patient presenting with persistent cough. His chest X-ray showed a right-sided paratracheal opacification. A thoracic CT (Figure 1 and Video 1) was subsequently performed to better characterize the radiographic findings. The exam revealed a Neuhauser Vascular Anomaly, that pertains a right-sided aortic arch and lusorian artery.

The lusorian artery is also known as an aberrant right subclavian artery. It is an anatomical variant in which the brachiocephalic artery is absent. Thus, from the aortic arch there are 4 originating arteries: the right and left common carotid arteries and the right and left subclavian arteries. The lusorian artery prevalence varies from 0.16 to 0.8%, depending on the country. The anomaly is clinically asymptomatic in more than 90% of the cases. Most symptoms arise in individuals at advanced ages, probably related to atherosclerotic phenomena. The most frequent symptoms are dysphagia, dyspnea, retro-sternal pain, coughing and weight loss. The lusorian artery and the right-sided aortic arch coexist in 9.2% of the cases.

#### **Author contributions**

Conception and design of the research, Acquisition of data and Analysis and interpretation of the data: Gil J, Marmelo B, Moreira D; Writing of the manuscript: Gil J; Critical revision of the manuscript for intellectual content: Moreira D, Santos LF, Cabral JC.

# **Keywords**

Deglutation Disorders / complications; Aorta, Thoracic; Cough; Subclavian Artery Syndrome.

Mailing Address: Julio Gil •

Av. Rei D Duarte, lote 12, 3ºDto. 3500-643, Viseu E-mail: juliogilpereira@gmail.com, remolh@hotmail.com Manuscript received September 16, 2016, revised manuscript October 13, 2016, accepted October 13, 2016

**DOI:** 10.5935/abc.20160203



Figure 1 – Neuhauser vascular anomaly.

## **Potential Conflict of Interest**

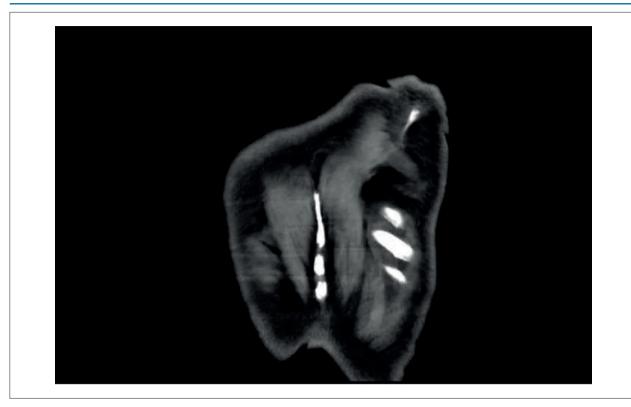
No potential conflict of interest relevant to this article was reported.

# Sources of Funding

There were no external funding sources for this study.

## **Study Association**

This study is not associated with any thesis or dissertation work.



 $\textbf{Video 1-} \textit{Watch the videos here: http://www.arquivosonline.com.br/2017/english/10802/video\_ing.asp} \\$