

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

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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

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

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Figure 1 – Neuhauser vascular anomaly.

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### Study Association

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



**Video 1** – Watch the videos here: [http://www.arquivosonline.com.br/2017/english/10802/video\\_ing.asp](http://www.arquivosonline.com.br/2017/english/10802/video_ing.asp)