

ORAL PRESENTATION

Open Access

A case of persistent left superior vena cava with absent right superior vena cava draining into dilated coronary sinus: magnetic resonance imaging and computed tomography findings

T Batinić^{1*}, Z Jurišić², I Štula¹

From 23rd World Congress of the World Society of Cardio-Thoracic Surgeons
Split, Croatia. 12-15 September 2013

Background

We report a case of a persistent left superior vena cava (PLSVC) with absent right superior vena cava (RSVC). It is a very rare congenital anomaly also known as isolated PLSVC.

This venous malformation was identified in a 75-year-old woman during cardiac magnetic resonance imaging (MRI), which was performed with the suspicion of a paracardiac mass.

Methods

We performed an MRI and a multislice computed tomography (MSCT) evaluation.

Results

Cardiac MRI revealed a persistent left superior vena cava which descended on the left side of the mediastinum and drained into the right atrium (RA) via a markedly dilated coronary sinus (CS) which mimicked a paracardiac mass. The RSVC was absent.

These findings were confirmed by MR and MSCT venography.

The patient had no additional cardiac abnormality.

Conclusions

Although PLSVC is usually asymptomatic, it is important to be aware of its existence, since it may cause problems performing central venous catheterization, pacemaker implantation and cardiothoracic surgery.

This anomaly is also associated with high incidence of congenital heart disease, arrhythmias and conduction disturbances.

Modern imaging techniques including computed tomography and magnetic resonance imaging provide precise diagnosis of this anomaly.

Authors' details

¹Department of Radiology, University Hospital Split, Split, Croatia.

²Department of Cardiology, University Hospital Split, Split, Croatia.

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-O67

Cite this article as: Batinić *et al.*: A case of persistent left superior vena cava with absent right superior vena cava draining into dilated coronary sinus: magnetic resonance imaging and computed tomography findings. *Journal of Cardiothoracic Surgery* 2013 **8**(Suppl 1):O67.

**Submit your next manuscript to BioMed Central
and take full advantage of:**

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at
www.biomedcentral.com/submit



* Correspondence: Tonci.Batinic@xnet.hr

¹Department of Radiology, University Hospital Split, Split, Croatia
Full list of author information is available at the end of the article