



**TOURO COLLEGE &
UNIVERSITY SYSTEM**

Touro Scholar

Touro College of Osteopathic Medicine (New York) Publications and Research

Touro College of Osteopathic Medicine (New York)

2015

Double Inferior Venacava with Anomalous Hemiazzygos Vein – A Case Report

Sumathilatha Sakthi Velavan

Touro College of Osteopathic Medicine, sumathilatha.sakthi-velavan@touro.edu

Bedia Castellanos

Touro College of Osteopathic Medicine, bedia.castellanos@touro.edu

Sushama Rich

Touro College of Osteopathic Medicine, sushama.rich@touro.edu

Robert B. Goldberg

Touro College of Osteopathic Medicine, robert.goldberg@touro.edu

Carlos Quinteros

Touro College of Osteopathic Medicine, carlos.quinteros@touro.edu

See next page for additional authors

Follow this and additional works at: https://touro scholar.touro.edu/tcomny_pubs



Part of the [Cardiology Commons](#)

Recommended Citation

Velavan, S. S., Castellanos, B., Rich, S., Goldberg, R. B., Quinteros, C., & Baez, R. (2015). Double inferior venacava with anomalous hemiazzygos vein – A case report [Supplemental material]. *FASEB Journal*, 29(1), LB2.

This Abstract is brought to you for free and open access by the Touro College of Osteopathic Medicine (New York) at Touro Scholar. It has been accepted for inclusion in Touro College of Osteopathic Medicine (New York) Publications and Research by an authorized administrator of Touro Scholar. For more information, please contact touro.scholar@touro.edu.

Authors

Sumathilatha Sakthi Velavan, Bedia Castellanos, Sushama Rich, Robert B. Goldberg, Carlos Quinteros, and Ramona Baez

Name – Sumathilatha Sakthi Velavan MD

Year - 2015

Abstract

Title: Double Inferior Vena cava with Anomalous Hemiazygos Vein – A Case Report

Authors: Sumathilatha Sakthivelavan MD, Bedia Castellanos MD, Sushama Rich MD, Robert Goldberg DO, Carlos Quinteros MD, Ramona Baez MD

Meeting: Experimental Biology 2015 held in Boston on April 1st 2015

Abstract

Objective: Duplication of the inferior vena cava (IVC) is a rare variation that is caused by an alteration in the embryogenesis of the cardinal venous system. It is found in 0.3 to 3% of the population. There are various types of double IVC and this case is reported since it is unique among them. **Materials and methods:** During dissection of an eighty seven year old female cadaver, presence of an IVC was noted on either side of the abdominal aorta. The course and the termination of both the IVCs were dissected. The azygos and the hemiazygos veins were traced into the thoracic cavity up to their termination. **Results:** In the posterior abdominal wall, the right IVC was found to be the continuation of the right common iliac vein and its course and termination was normal. On the left, the common iliac vein continued as the left IVC. Both the IVCs were connected by a venous bridge which coursed deep to the abdominal aorta. The left IVC passed through the medial arcuate ligament and entered the thoracic cavity as the hemiazygos vein. It was the only hemiazygos vein and drained into the azygos vein which was smaller than the hemiazygos vein. **Conclusion:** The most common type of the double IVC is the termination of the left IVC in the left renal vein which drains into the right IVC. This case had a normal termination of the right IVC and continuation of the left IVC as the hemiazygos vein, which is a rarely reported variant. Double IVC is usually asymptomatic but if unnoticed, may lead to severe hemorrhage in the retroperitoneal surgeries. In the imaging studies, a thrombosed left IVC might mimic retroperitoneal lymphadenopathy. Adequate knowledge of this variant aids in the proper interpretation of radiological images and avoids intraoperative complications.