

## Quiz - cardiovascular surgery: three-dimensional inspection of the internal vascular structure

---

Two given videos show models which are viewed in the virtual reality. They are three-dimensional reconstructions of the same vascular area.

In Video 1 (See videos at [www.hvt-journal.com](http://www.hvt-journal.com)), normal anatomy is presented, while in Video 2 (See videos at [www.hvt-journal.com](http://www.hvt-journal.com)) an abnormality is depicted.

Choose the correct answer for the anatomical description and diagnosis:

- A. Common carotid artery bifurcation into the internal and external carotid arteries. The abnormality is an atherosclerotic plaque.
  - B. Bifurcation of the abdominal aorta into two common iliac arteries. The finding is the median sacral artery.
  - C. Pulmonary artery bifurcation into the right and left pulmonary arteries. The abnormality is the patent arterial duct.
  - D. Left main coronary artery bifurcation into the left anterior descending artery and circumflex artery. The diagnosis is trifurcation into the left anterior descending, prominent intermediate and left circumflex artery.
  - E. Renal artery bifurcation in the renal hilum. The diagnosis is renal artery thrombosis
- 

### Video 1. Normal vascular anatomy

### Video 2. Vascular abnormality

Vitaliy Petrov <sup>1\*</sup>, Mariana Pankiv <sup>2</sup>

<sup>1</sup>Department of Surgery and Transplantology Danylo Halytsky National Medical University, Lviv, Ukraine

<sup>2</sup>Department of Surgery Andrei Krupynskyi Lviv Medical Academy, Lviv, Ukraine

**Ethics:** Informed consent was obtained from patient before procedures

**Peer-review:** Internal

**Authorship:** V. P. and M. P. equally participated in case management and manuscript preparation and fulfilled authorship criteria

**Conflict of interest:** None to declare

**Acknowledgement and Funding:** None to declare