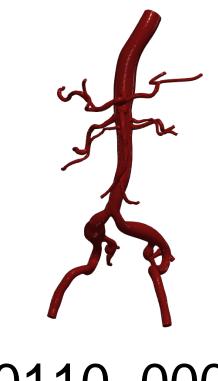
Vascular Model Repository Specifications Document



0110_0001

| Species | Human |
|-----------|--------------|
| Anatomy | Aortofemoral |
| Disease | Healthy |
| Procedure | - |

Clinical Significance and Background

Aortofemoral

The largest blood vessel and the human body's primary artery, the aorta is responsible for carrying oxygenated blood pumped from the heart to rest of the body. The aorta is divided into four sections: the ascending aorta, the aortic arch, the thoracic aorta, and the abdominal aorta.

The last section of the aorta, the abdominal aorta, starts at the diaphragm and ends just above the pelvis. This section is responsible for supplying blood to the stomach, kidneys, liver, and intestines. Past the abdominal aorta, the artery branches into two separate iliac arteries, one for each leg, which are responsible for supplying oxygenated blood to the legs and lower half of the body.

Each iliac artery, in turn proceeds to branch into the external and internal iliac arteries, the former of which then becomes the main femoral artery. Again, the femoral arteries are a major component in supplying oxygenated blood to the legs and lower body. When the femoral arteries are included with the abdominal aorta, the whole system is referred to as the aortofemoral system.

Clinical Data

General Patient Data

| Age (yrs) | 67 |
|-----------|------|
| Sex | Male |

Notes

- See below for information on the image data and boundary conditions associated with the model.

Image Modality: MR

Image Type: DICOM

Image Source: TLAB

Image Manufacturer: GE MEDICAL SYSTEMS

Publications

See the following publications which include the featured model for more details:

Wang, K. C. Y. (2001). Level set methods for computational prototyping with application to hemodynamic modeling. stanford university.

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AND/OR

N.M. Wilson, A.K. Ortiz, and A.B. Johnson, "The Vascular Model Repository: A Public Resource of Medical Imaging Data and Blood Flow Simulation Results," J. Med. Devices 7(4), 040923 (Dec 05, 2013) doi:10.1115/1.4025983.

AND/OR

Reference the official website for this data: www.vascularmodel.com

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