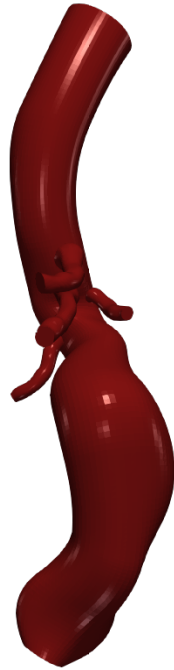


Vascular Model Repository

Specifications Document



0186_H_ABAO_AAA

Legacy Name: aorta08

Model added: 5 Jul 2023

Species	Human
Anatomy	Abdominal Aorta
Disease	Abdominal Aortic Aneurysm
Procedure	None

Clinical Significance and Background

Abdominal Aorta

The largest blood vessel and the primary artery of the human body, the aorta, carries oxygenated blood pumped from the heart to the 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 is 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. The femoral arteries are a major component in supplying oxygenated blood to the legs and lower body.

Abdominal Aortic Aneurysm

Abdominal Aortic Aneurysm (AAA) is when swelling (aneurysm) occurs in the last section of the aorta (abdominal aorta). This swelling can occur when the walls of the aorta weaken and while exact causes are not easily determined, smoking and high blood pressure are two common factors thought to contribute to aneurysm development. While usually harmless, a large AAA can turn deadly if there is a rupture in the vessel wall and internal bleeding occurs.

Clinical Data

General Patient Data

Age (yrs)	-
Sex	-

Notes

Images from Ken Tran. See below for information on the image data.

Image Type: VTI

Publications

There are no publications associated with the featured model.

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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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