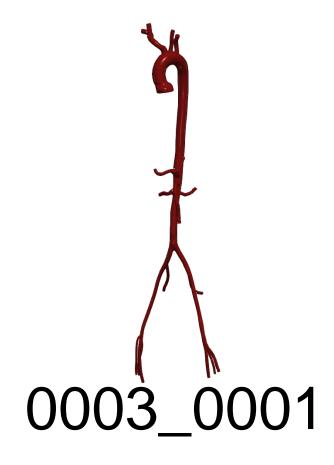
# Vascular Model Repository Specifications Document



Species	Human
Anatomy	Aortofemoral
Disease	Healthy
Procedure	_

## Clinical Significance and Background

### Aortofemoral

The abdominal aorta runs from the diaphragm and ends just above the pelvis, where it divides into the iliac arteries. There are five arteries that branch from the abdominal aorta: the celiac artery, the superior mesenteric artery, the inferior mesenteric artery, the renal arteries and the iliac arteries. The celiac artery provides blood to the stomach, liver and pancreas; the superior mesenteric artery supplies blood to the small intestine; the inferior mesenteric artery supplies blood to the large intestine; and the renal arteries provide blood to the kidneys as well as the muscles of the abdominal wall and the lower spinal cord. The end of the abdominal aorta branches into the iliac arteries, which supply blood to the legs and the organs in the pelvis.

Each of the iliac arteries then branch and lead into the femoral artery, which is the main blood vessel supplying blood to the lower body. The femoral artery starts in the upper thigh, near the groin and runs down to the back of the knee. The function of the femoral artery and its branches is to supply the lower body with blood. 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)	21
Sex	Female

## **Notes**

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

Image Modality: CT

Image Type: DICOM

Image Source: OSMSC

**Boundary Conditions:** Refer to boundary conditions in the SimVascular file.

# **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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