

ANSYS AIM - Flow Through an Aortic Aneurysm

Author(s): Sebastian Vecchi, ANSYS Inc.

Problem Specification

1. Start-Up
2. Geometry
3. Mesh
4. Physics Setup
5. Solution/Results
6. Verification & Validation

Problem Specification

In this tutorial, flow through an aortic aneurysm will be modeled using AIM. An aortic aneurysm is an inflated section of the body's main artery, called the aorta, which can lead to bursting of the artery and ultimately death. A CAD model has been provided [here](#), which will be used for analysis.

Arteries carry oxygen-rich blood to various parts of the body at speeds of about 1.5 meters per second. Blood has an average density of 1060 [kg/m³] and a viscosity of 1.5e-3 [Pa s].

[Go to Step 1: Start-Up](#)

[Go to all ANSYS AIM Learning Modules](#)