## **Bifurcating Artery - Verification & Validation**

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**Problem Specification** 

- 1. Pre-Analysis & Start-Up
- 2. Geometry
- 3. Mesh
- 4. Physics Setup
- 5. Numerical Solution
- 6. Numerical Results
- 7. Verification & Validation

Exercises

Comments

## Verification & Validation

You need to carry out the following verification studies on the case with no plaque and the case with plaque configuration #1 and no blood clot.

- 1. Check that the boundary conditions have been applied correctly.
- 2. Check that the mesh is fine enough by performing a refinement study. Consider at least one refined mesh in addition to the original mesh.
- 3. Check that the iterations have converged. You can do this by monitoring the residuals and also another parameter such as total resistance on the walls
- 4. Check that mass and momentum are conserved in the flow domain.

## **Go to Exercises**

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