## Week 3: Simulation

Tuesday, September 13, 2022

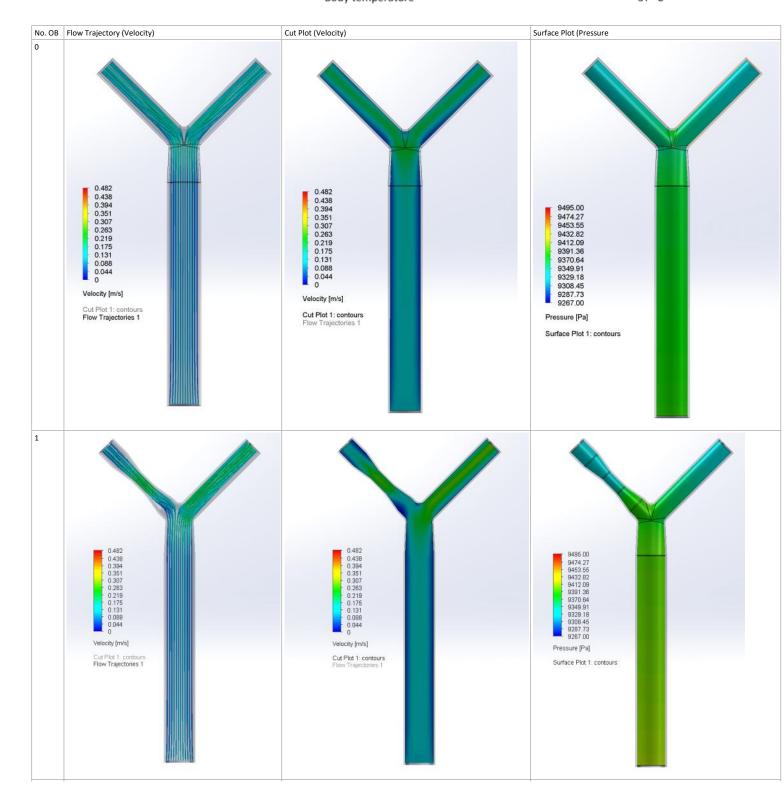
Objective: I plan to be able to simulate the blood flow in at least one model.

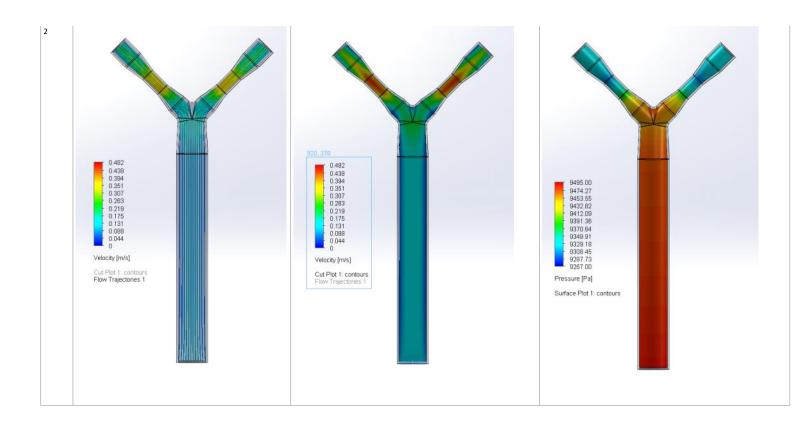
I learned about all the different types of simulation in SOLIDWORKS

## Table 1: Carotid artery flow properties

Common carotid artery diameter Internal carotid artery diameter External carotid artery diameter Flow rate into common carotid artery Pressure at outlet of external and internal carotid arteries Carotid artery luminal surface roughness Yield stress of whole blood Body temperature

8 mm [1] 5 mm [1] 5 mm [1] 320 ml/min [2] 70 mmHg 10 µm [3] 14.4 mPa [4] 37° C





## Week 4: More Simulation and Tech Memo

Tuesday, September 20, 2022 6:40 PM

Objective: I plan to at least fill out the planning template, find sources, and start make relevant figures and simulations for the paper.