Lab 3 – Fick’s Principle

Read all before starting

To start out HumMod has to stabilize otherwise the values could be off. So click go and run the program for 90 days (Or load Normal Subject.ICs if you have it by going to file/Load Initial Conditions/ Normal Subject.ICs)

It will ask you to write down initial values for certain variables. The variables can be found in HumMod by following the paths below.

Pulmonary Artery [O2]/ Pulmonary Vein [O2]

Physiology🡪O2🡪Blood

O2 Uptake

Physiology🡪Lungs🡪Gas Exchange

Cardiac Output

Physiology🡪Circulation🡪Blood Flow

To calculate Cardiac Output take O2 uptake and divide it by the difference between Artery[O2] and Vein [O2].