Lab2- A-V Fistula

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.

Cardiac Output/Heart Rate/Stroke Volume

Physiology🡪Circulation🡪Blood Flow

Brain Blood Flow

Organs🡪Brain🡪Circulation

G.I. Tract Blood Flow

Organs🡪Kidney🡪Circulation

Skeletal Muscle Blood Flow

Organs🡪Skeletal Muscle🡪Circulation

Sympathetic Nerve Activity

Physiology🡪Autonomic Nerves🡪Efferent🡪Ganglia General

Plasma Renin Activity (PRA)

Physiology🡪Blood🡪Chemistry

Na+ Excretion

Physiology🡪Nephrons🡪Urine

Erythropoietin (EPO)

Physiology🡪Hormones🡪EPO

Blood Volume/Red Cell Volume/ Plasma Volume/ Hematocrit

Physiology 🡪 Blood🡪Volume

To set up the A-V Fistula go to Clinic🡪AV Fistula. Slide bar for size to moderate.

To Exercise go to Lifestyle🡪Posture🡪Suggest Standing. Then go to Lifestyle🡪Exercise and follow the labs instructions running the exercise for a minute, recording heart rate, then increasing speed (in mph) or grade (in %).