Lab 4 - Pulmonary Shunt

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.

Arterial pO2/Arterial [O2]/Venous pO2/Venous[O2]

Physiology🡪Blood🡪Chemistry

Arterial Pressure (Systemic Arteries)

Physiology🡪Circulation🡪Blood Pressure

Cardiac Output/Heart Rate/ Stroke Volume/ Fistula Flow

Physiology🡪 Circulation🡪Blood Flow

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