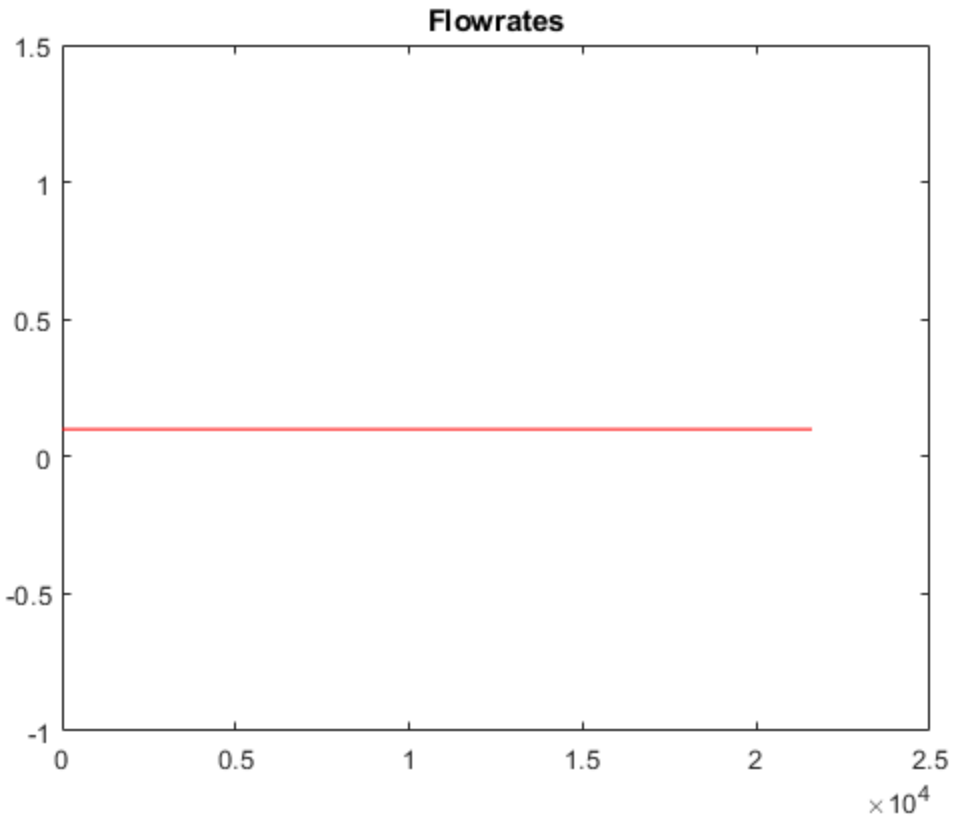
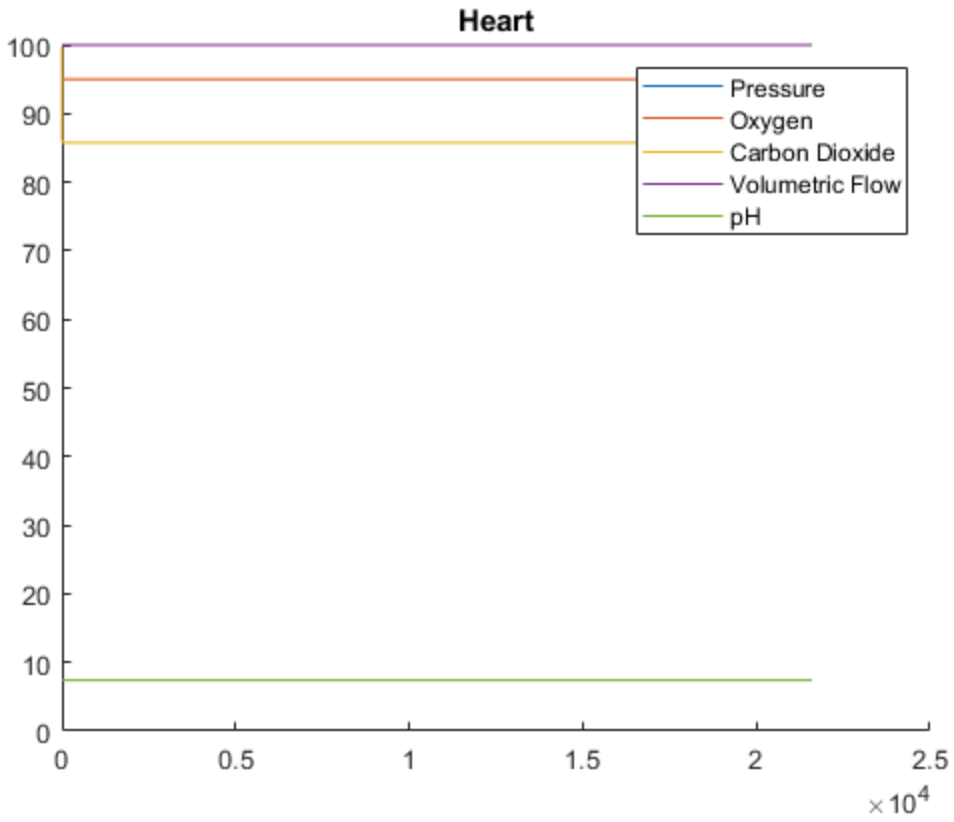
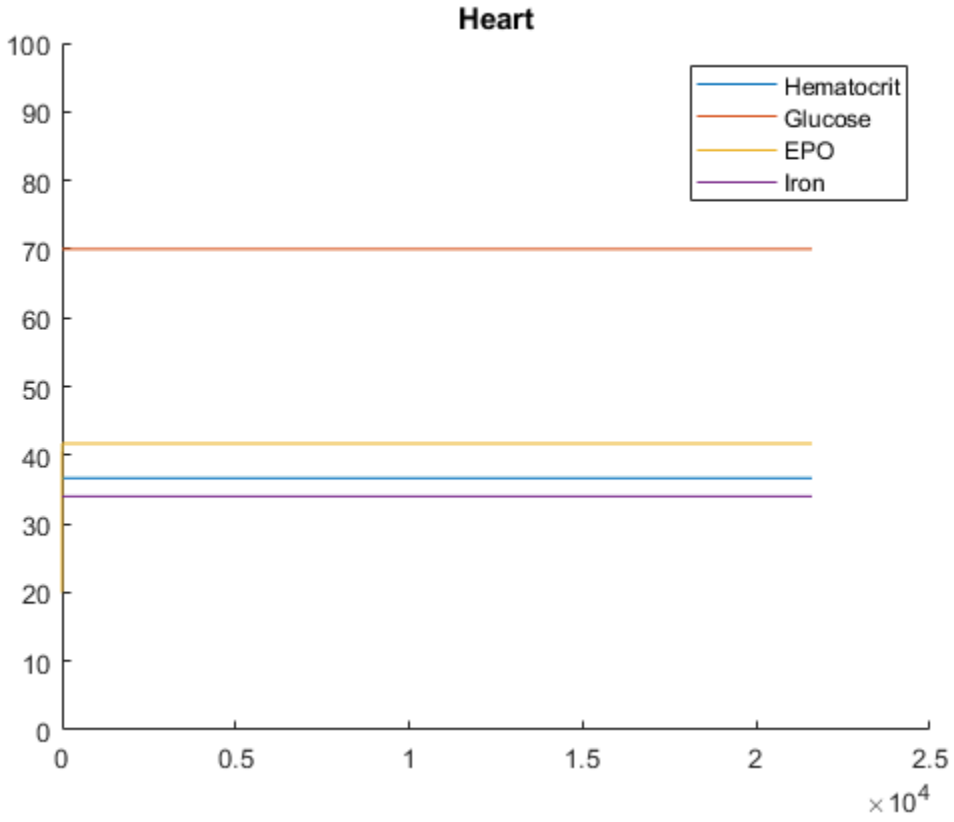
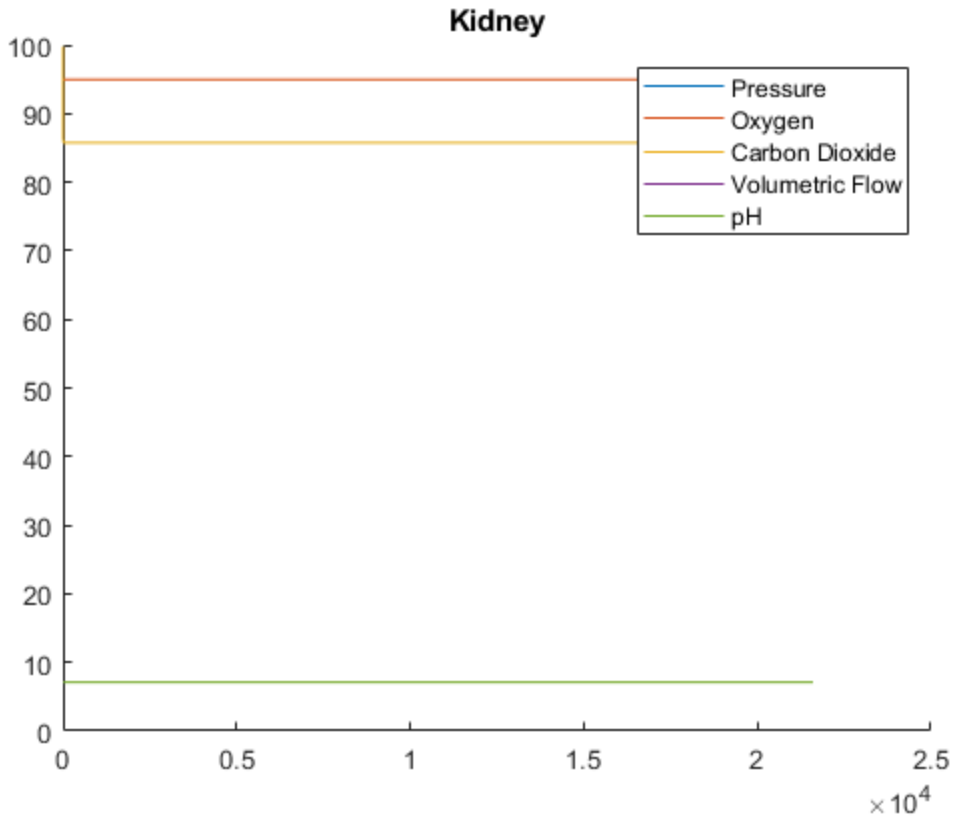
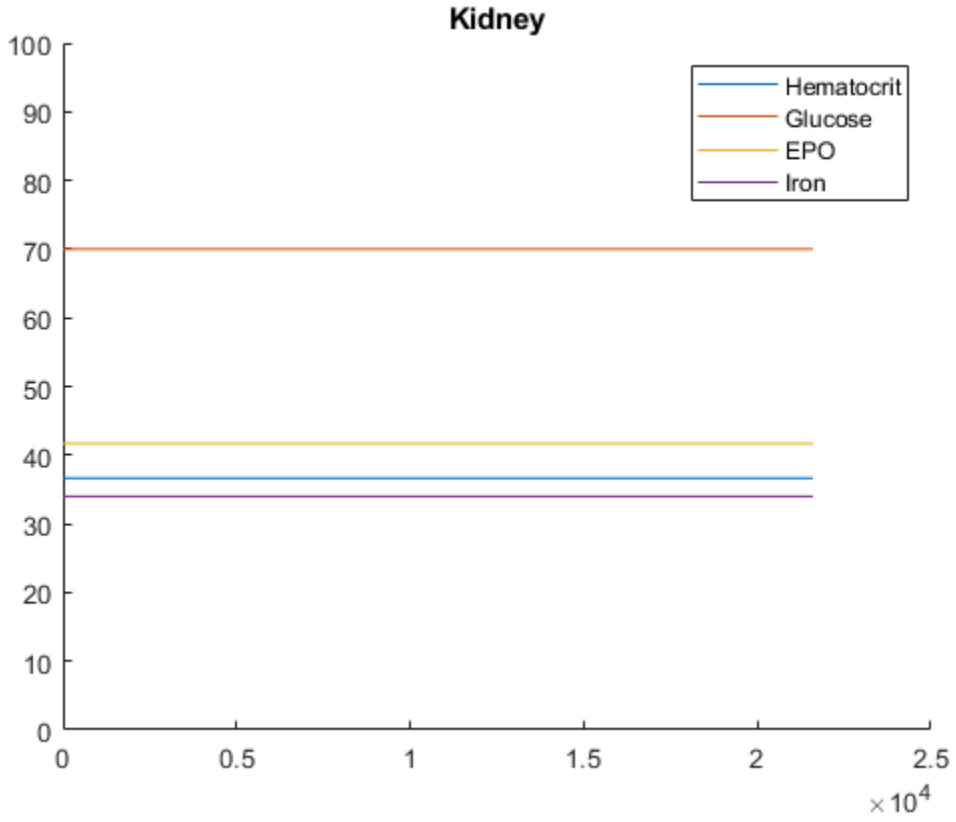
```
function start()
% Starts the anemia model
close all

pulse_rate = 70; % pulse rate in bpm
blood_pressure = 90; % blood pressure in mmHg
blood_sugar = 70; % blood sugar level in mg/dL
oxygen_saturation = .95; % percentage (e.g. .95)
state = 0; % 0 if steady-state, 1 if acute
blood_loss = .25*0.000694444444444444; % in L/s
time = 60*(60)*(6);% in seconds (6 hours)

AnemiaModel([pulse_rate, blood_pressure, blood_sugar,
 oxygen_saturation, state, blood_loss*state, time]);
end
```

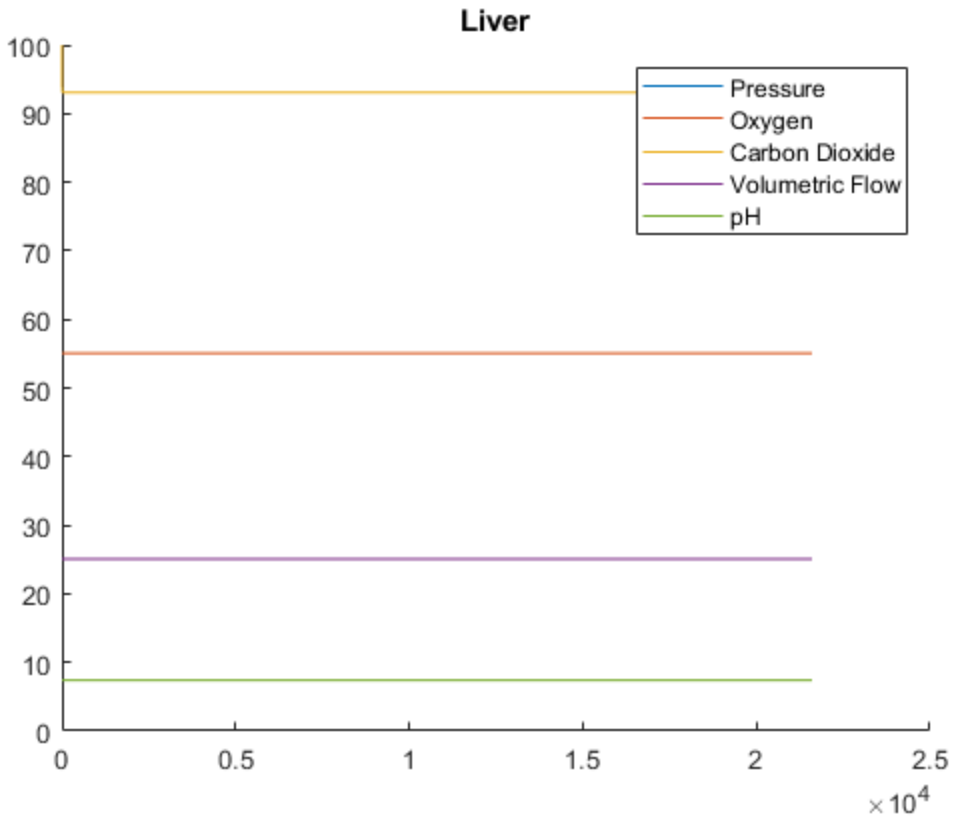


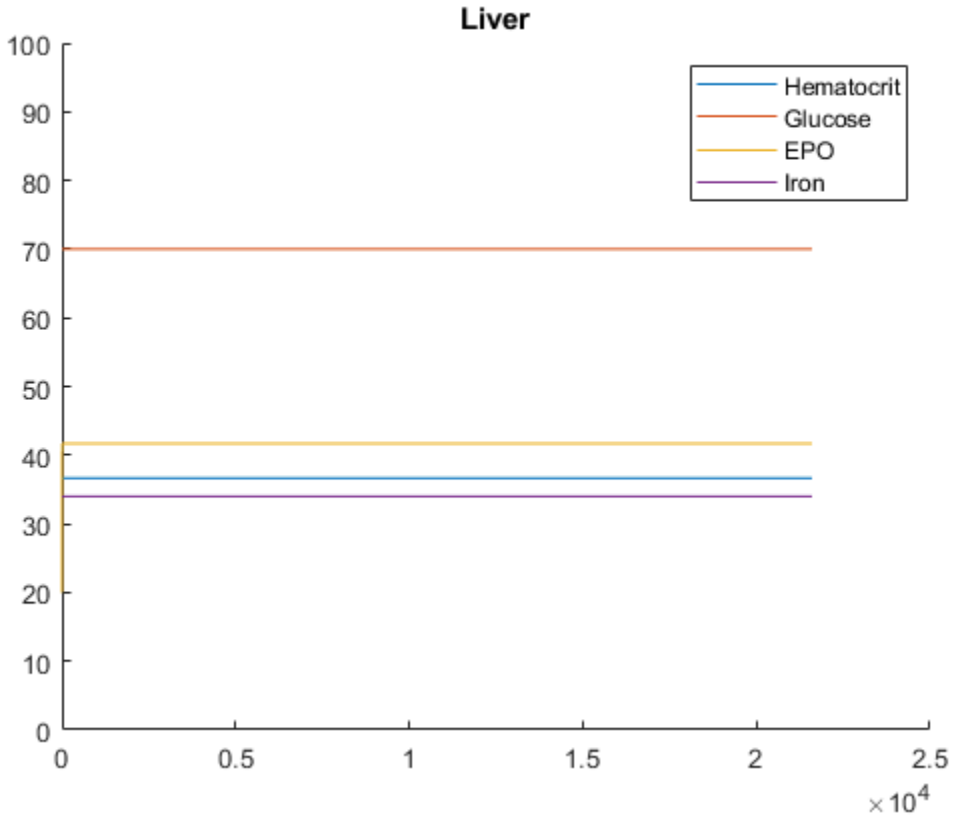

Heart
Pressure
Oxygen
Carbon Dioxide
Volumetric Flow
pH
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4

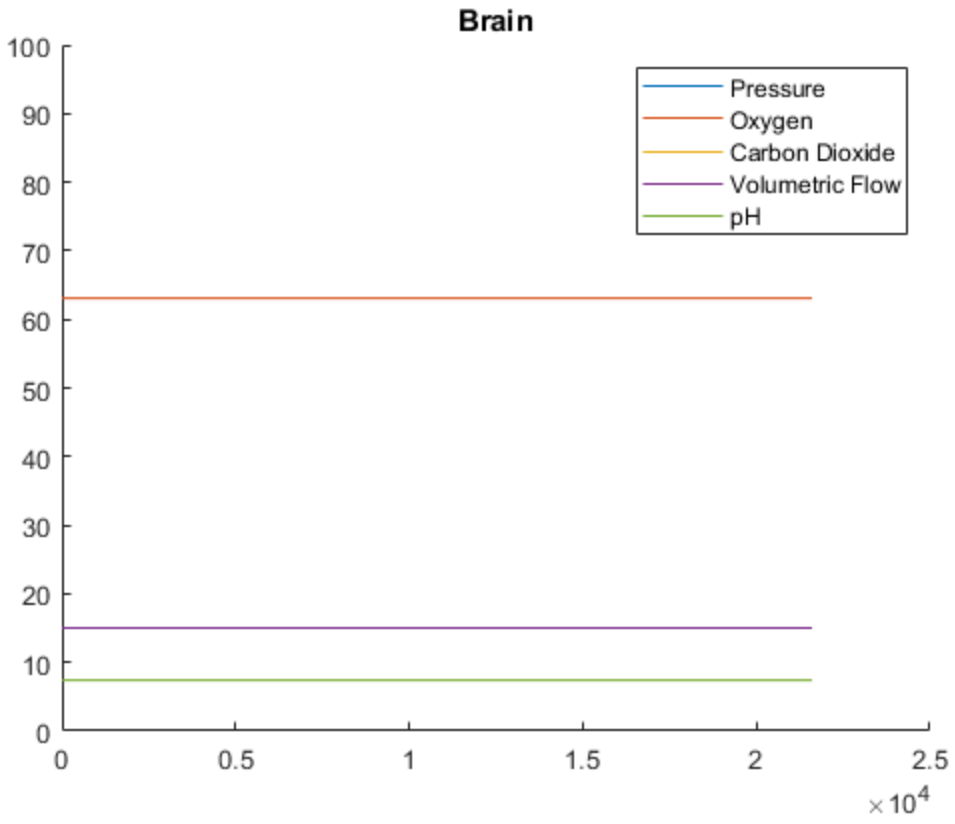

Heart
Hematocrit
Glucose
EPO
Iron
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4

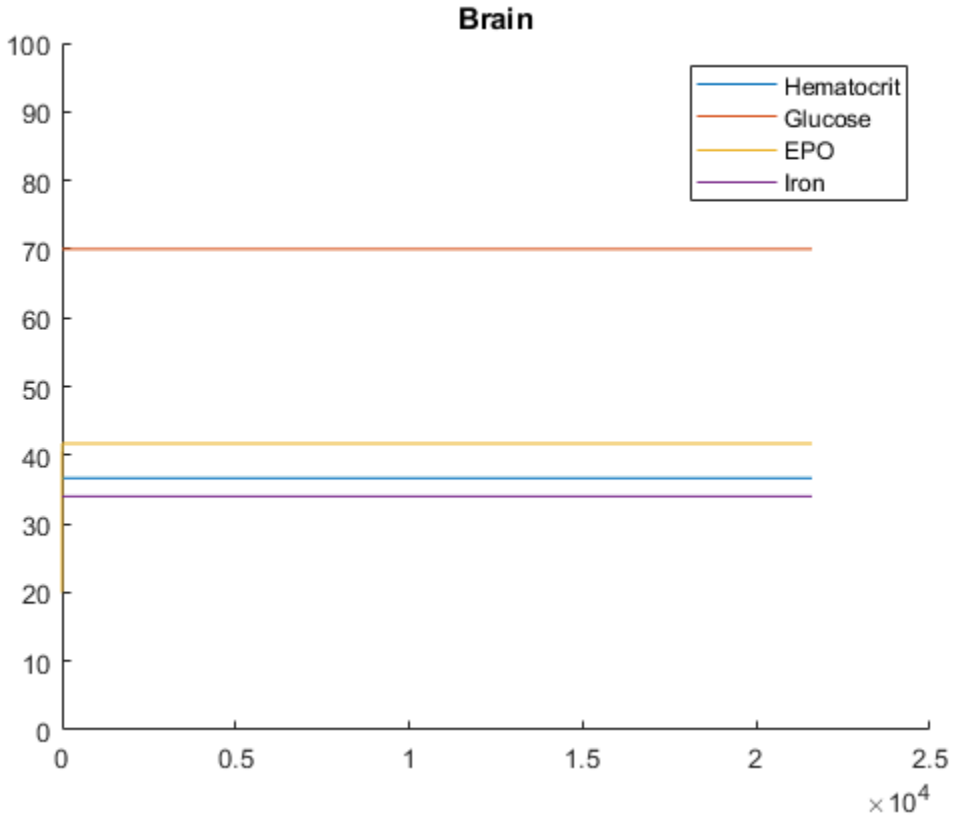

Kidney
Pressure
Oxygen
Carbon Dioxide
Volumetric Flow
pH
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4

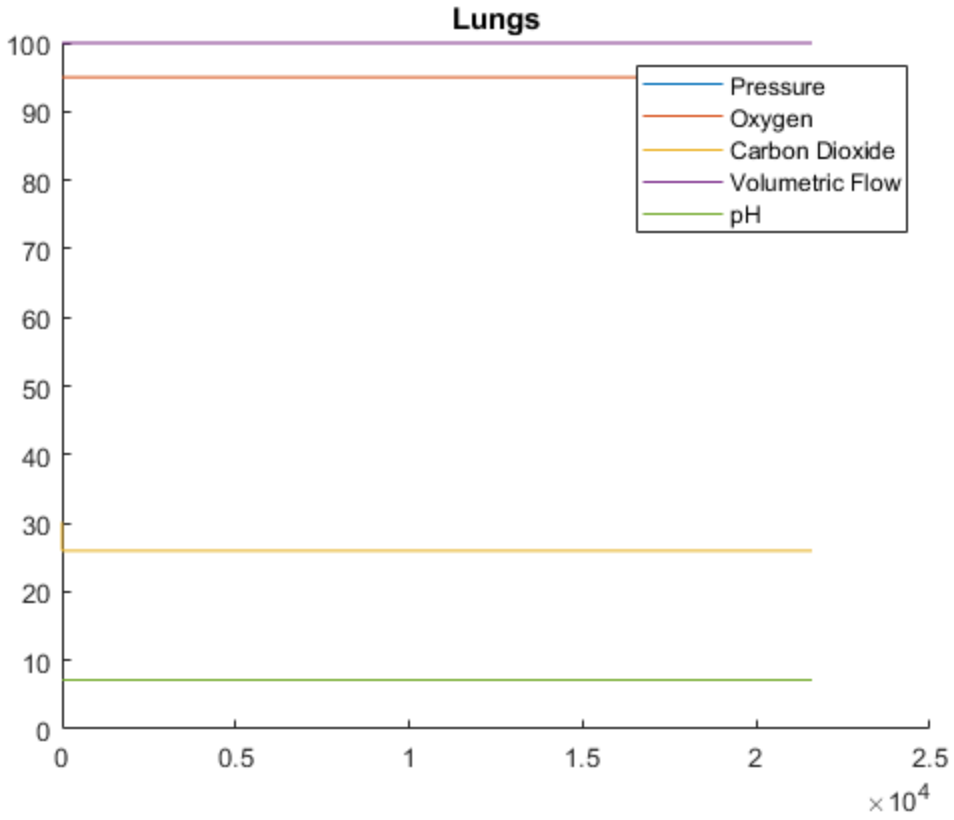

Kidney
Hematocrit
Glucose
EPO
Iron
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4

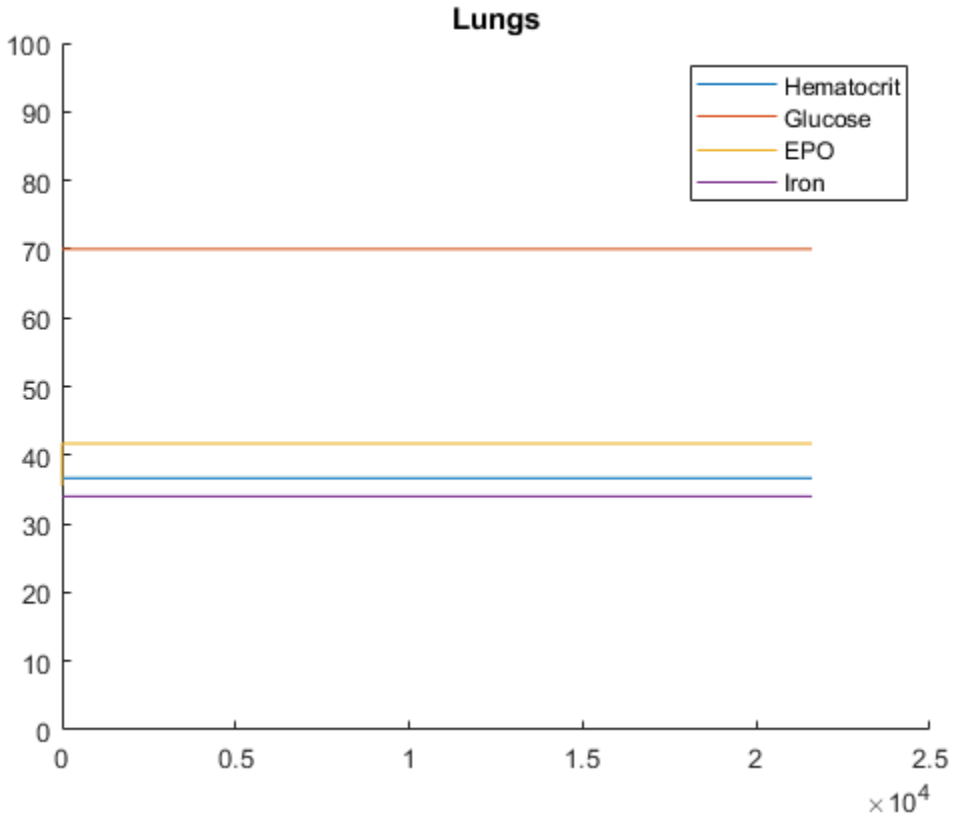

Liver
Pressure
Oxygen
Carbon Dioxide
Volumetric Flow
pH
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4

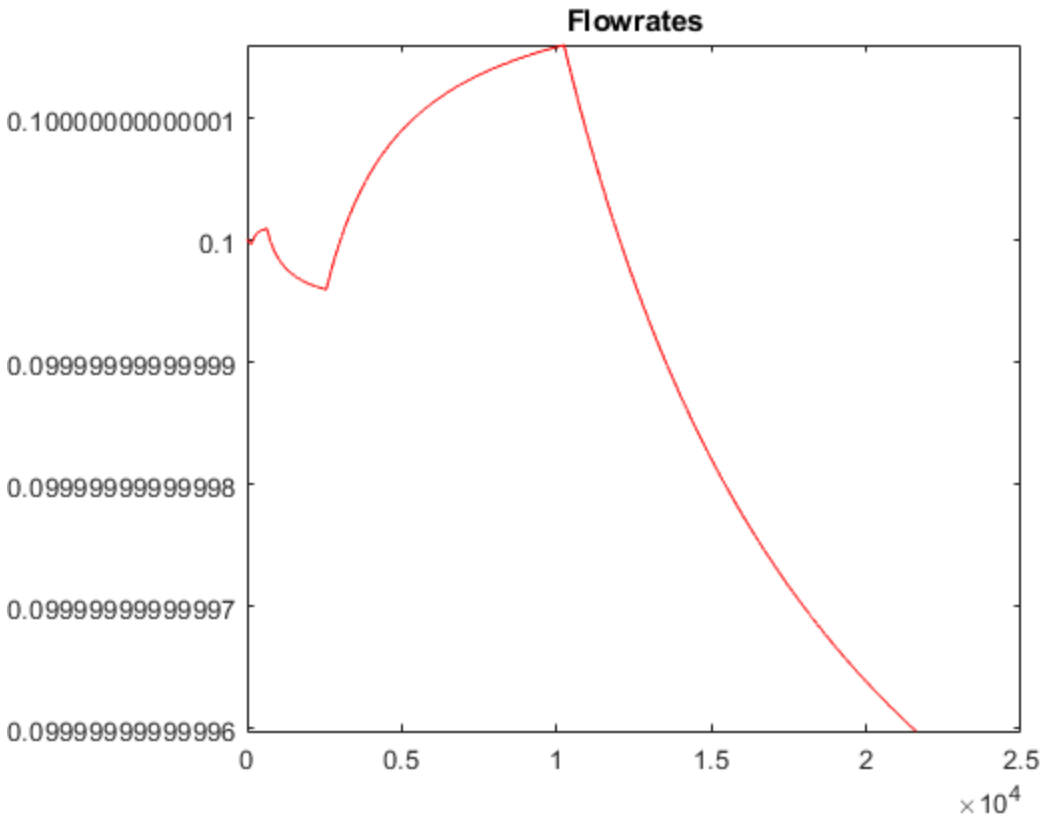

Liver
Hematocrit
Glucose
EPO
Iron
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4


Brain
Pressure
Oxygen
Carbon Dioxide
Volumetric Flow
pH
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4


Brain
Hematocrit
Glucose
EPO
Iron
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4


Lungs
Pressure
Oxygen
Carbon Dioxide
Volumetric Flow
pH
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4


Lungs
Hematocrit
Glucose
EPO
Iron
100
90
80
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
×10^4



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