Guide for Simulation 2

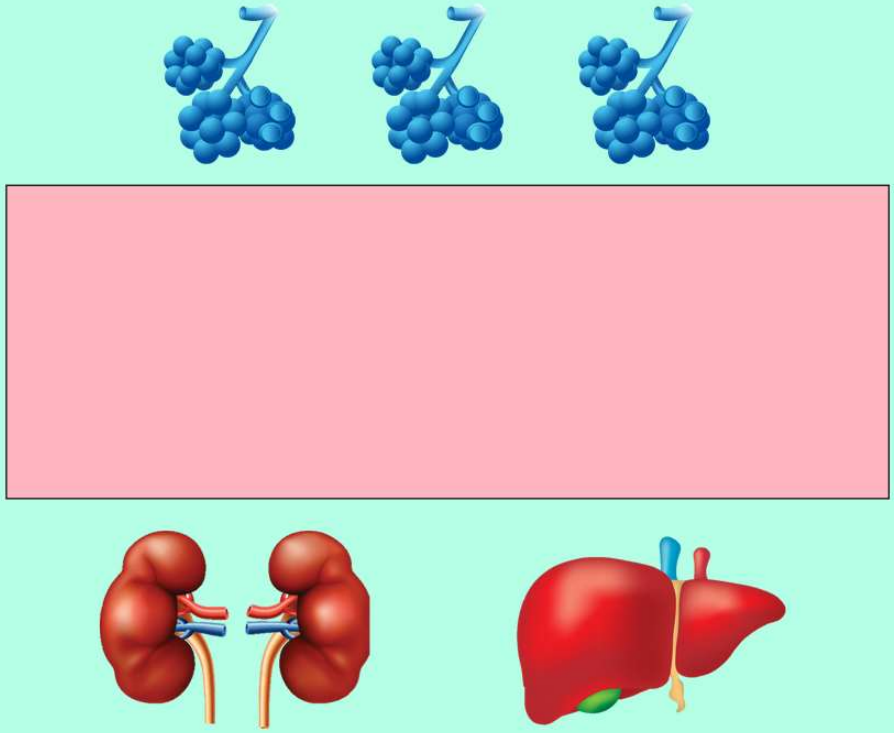
Project 26

40.015 Simulation Modelling and Analysis

Use sliders to adjust the simulation parameters

40.015 SMA Project Simulation 2 - Project 26

Simulation of Virus Attack in the Human Body



Simulation Parameters

1) Simulation Speed

2) Probability of Arrival

3) Probability of Departure

4) Viral Load

5) Initial Kidney Functionality

6) Initial Liver Functionality

No. Red Blood Cells: 0.0

No. Oxygenated Blood Cells: 0.0

No. Oxygen Molecules: 0.0

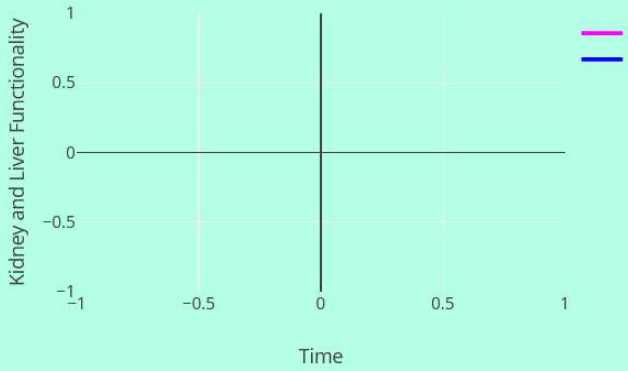
Oxygen Supply in Body: 0.0

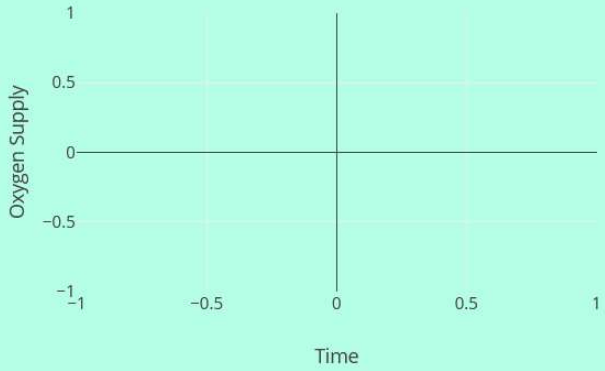
Kidney Functionality: 0.0

Liver Functionality: 0.0

Simulation Guide

Graphs

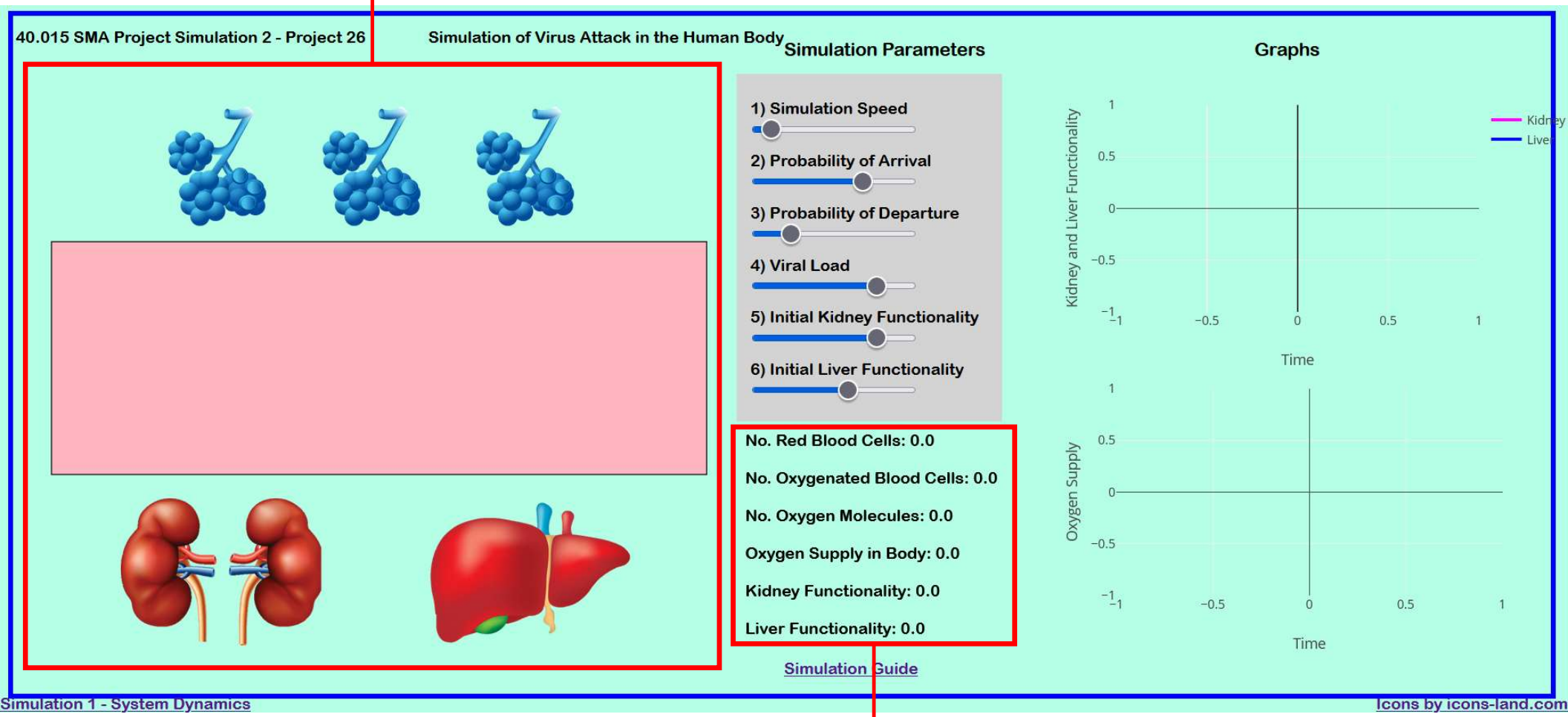




Simulation 1 - System Dynamics

Icons by icons-land.com

Click anywhere on the left area to start simulation



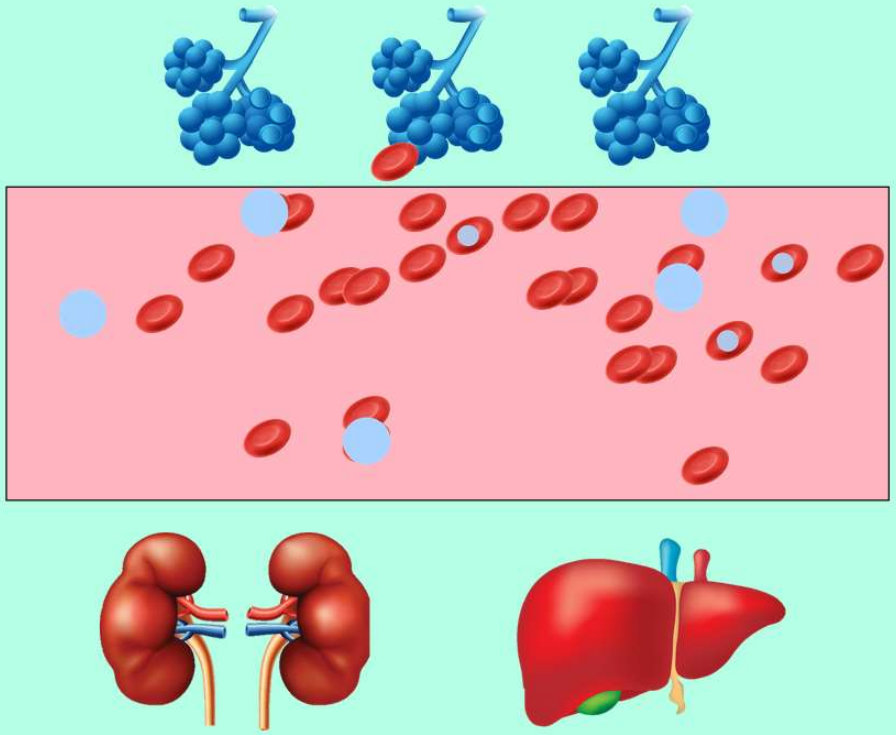
Track statistics in simulation

Simulation begins

Graphs to track key statistics across time

40.015 SMA Project Simulation 2 - Project 26

Simulation of Virus Attack in the Human Body



Simulation Parameters

1) Simulation Speed

2) Probability of Arrival

3) Probability of Departure

4) Viral Load

5) Initial Kidney Functionality

6) Initial Liver Functionality

No. Red Blood Cells: 32.0

No. Oxygenated Blood Cells: 7.0

No. Oxygen Molecules: 5.0

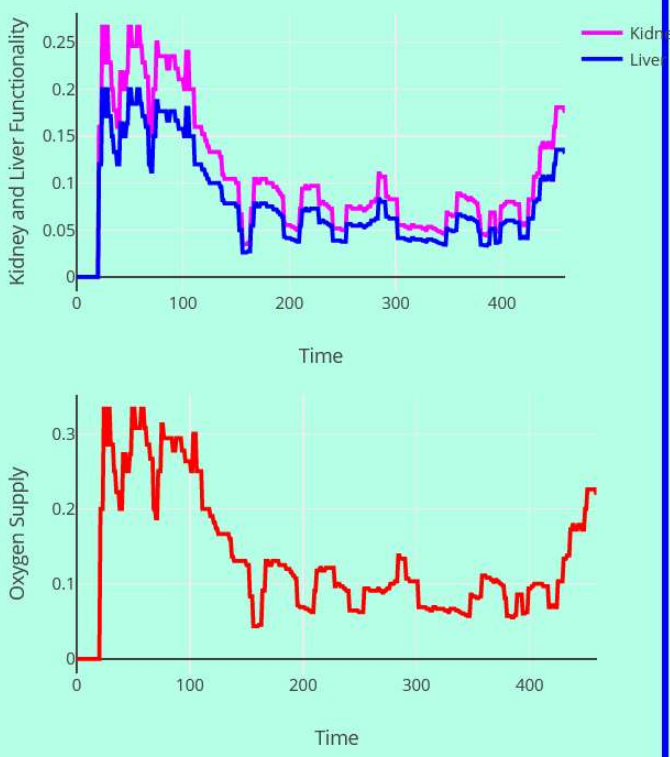
Oxygen Supply in Body: 0.2

Kidney Functionality: 0.2

Liver Functionality: 0.1

Simulation Guide

Graphs



Simulation 1 - System Dynamics

Icons by icons-land.com

Values of statistics change as the simulation runs