CircAdapt Term Assignment

CircAdapt Simulator

@ CircAdapt
ADVANCED CARDIOVASCULAR MODELING AND SIMULATION

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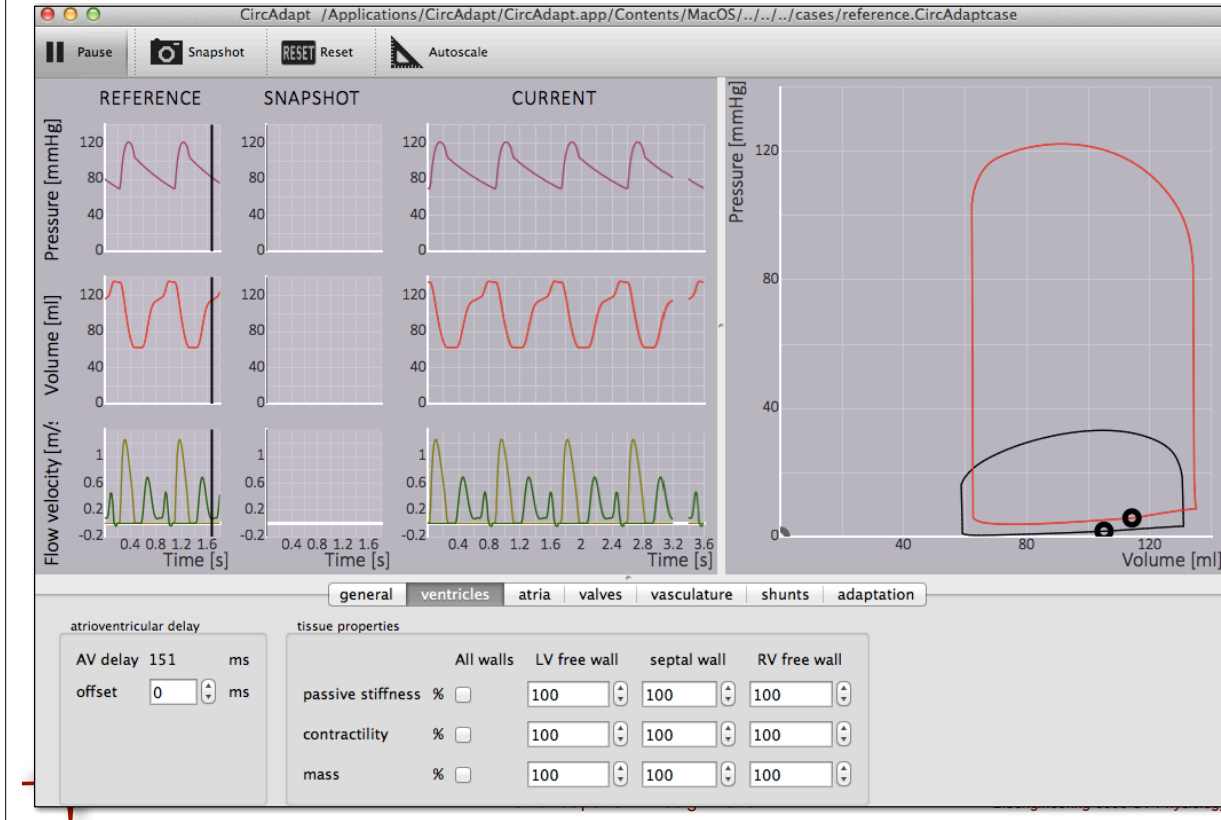
Manual CircAdapt Simulator v1.0.2

INTRODUCTION

The CircAdapt Simulator is an interactive simulation tool that can be used for education of cardiovascular physiology. It is based on the CircAdapt model of cardiovascular system dynamics.[1,2] CircAdapt Simulator is freeware and, hence, can be downloaded free of charge at www.circadapt.org. Its development is funded by Stichting IT Projecten (www.stitpro.nl) and is realized by Peacs (www.peacs.nl) in close collaboration with the CircAdapt research team (Department of Biomedical Engineering, Maastricht University, The Netherlands). The software is compatible with both Windows and Mac OS X.
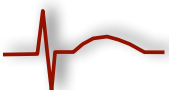
http://www.circadapt.org

CircAdapt GUI

CircAdapt Tutorial

**EXAMPLE TUTORIAL
WITH THE CIRCADAPT SIMULATOR**

"ACUTE VALVULAR PROBLEMS"

The Assignment

1. Read Manual and Tutorial
2. Explore the program and make sure all controls are clear
3. Select an intervention from exercise or other form of extreme physiology
4. Explore response of the model
5. Write a report
   1. Overview of the exercise, including background, goals and hypotheses, methods for setting model parameters
   2. Summary and interpretation of findings
   3. Sample questions to use as a tutorial in future classes