Heart stroke-volume variability in a murine model for heart failure with reduced ejection fraction

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Abstract

Write an abstract

I. INTRODUCTION

II. MATERIALS AND METHODS

III. RESULTS

A. Experimental Results

B. Variability analysis

Heart rate variability has been measured using a variety of techniques. The majority of them are based on the notion of signal stationarity. However, the heart rate's inherently nonstationary nature—which undergoes continuous physiological change to adapt to outside stimuli—presents a significant challenge that could lead to inaccurate results. Although a number of signal preprocessing methodologies have been suggested to address these problems, nonlinear analysis-based strategies are frequently used and seem to produce reliable result. One of them that is used in different scientific domains is the Poincairé plot.

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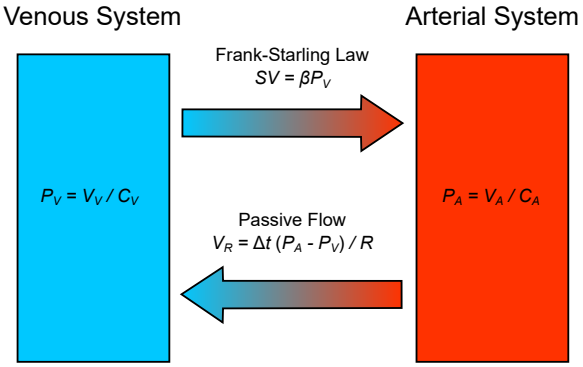

FIG. 1. Scematic representation of the model

C. Mathematical Model

IV. CONCLUDING REMARKS

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We wish to acknowledge the support of the author community in using REVTEX, offering suggestions and encouragement, testing new versions, ….