

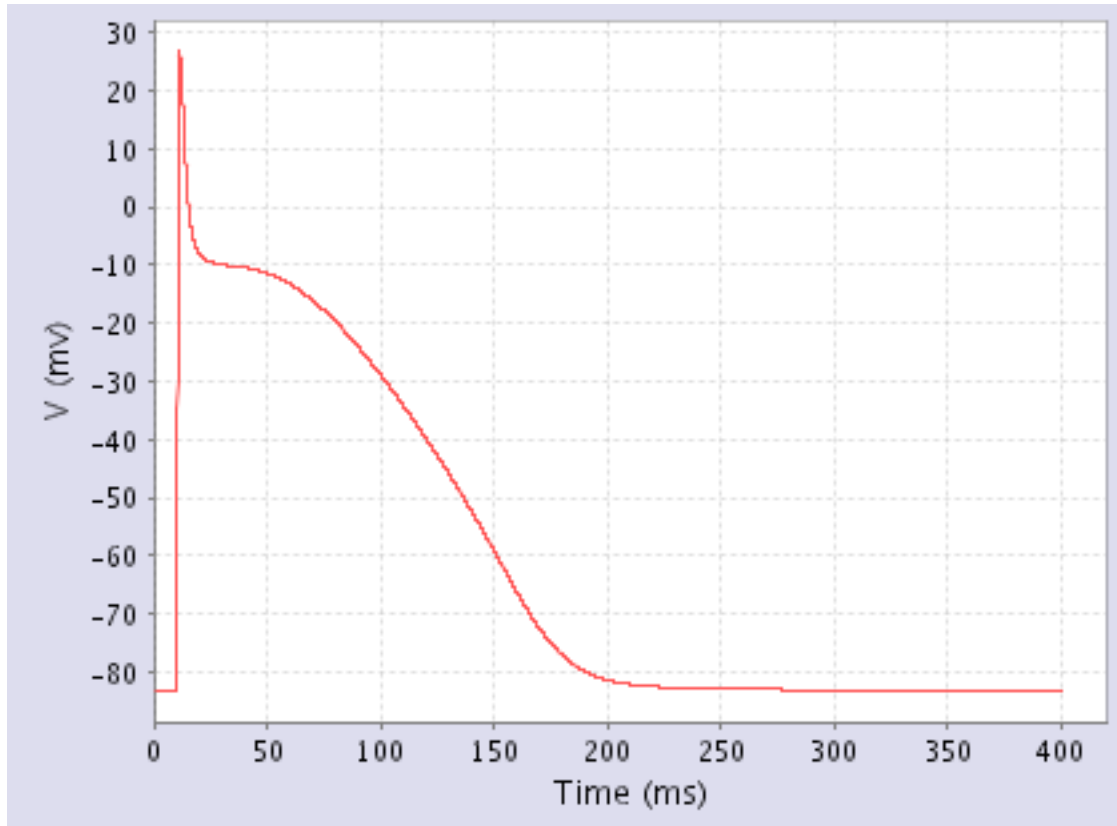
# Canine Atrial RNC00-ESM

**Enhanced Simucore Model Based Upon: Ramirez, Nattel,  
Courtemanche Model of Canine Atrial Cardiac Action Potentials,  
2000; v. 2.0**

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## 1 Description



This model simulates canine atrial action potentials. The model's formulation is based on Luo-Rudy II guinea-pig ventricular model with currents modified to mimic the configuration of canine atrial action potential.

Abstract excerpt: *"To obtain insights into the ionic mechanisms governing canine atrial AP properties, we incorporated formulations of  $K(+)$ ,  $Na(+)$ ,  $Ca(2+)$ , and  $Cl(-)$  currents, based on measurements in canine atrial myocytes, into a mathematical model of the AP."*

## 2 References

- Ramirez RJ, Nattel S, Courtemanche M.  
Mathematical analysis of canine atrial action potentials: rate, regional factors, and electrical remodeling.  
Am J Physiol Heart Circ Physiol. 2000 Oct;279(4):H1767-85.  
PMID: [11009464](https://pubmed.ncbi.nlm.nih.gov/11009464/)

### 3 Ordering

- [Order this model](#) or [request further information](#).