

Beeler-Reuter Ventricular Model, 1977

v. 1.3

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1. Description

The model is used to simulate mammalian ventricular action potentials. It formulates ionic current gating in terms of Hodgkin-Huxley type equations. This model describes four ionic currents: fast inward sodium current, slow (calcium-carried) inward current, time-dependent outward potassium current, and time-independent (predominantly potassium) outward current. This model includes basic intracellular calcium concentration handling.

2. References

- Reconstruction of the action potential of ventricular myocardial fibres, Beeler, G.W. and Reuter, H., 1977 *Journal of Physiology*, 268, 177-210.

3. Download

This model is part of the stable CESE distribution.

- Download [CESE stable](#).