

Experimental Protocols

All simulations were run 4 weeks to allow model variables to reach a steady state. Running the model is performed under the menu “Go” and then selecting a simulation time (from 1 second to 90 days). After simulating an additional 1 week of baseline values (5 weeks total including the steady state period), 4 simulations were performed with 3 weeks of baroreflex activation, and then simulating one more week with baroreflex activation turned off:

1. **Normal.** Baroreflex activation was performed by entering “1.7” into the “Baroreflex Activation” box, clicking the “>” arrow and clicking “On”.
2. **Renal Clamp.** The *Normal* simulation was performed with the addition of clamping RSNA at baseline levels. This was done by entering “1.52” into the “RSNA Right level” and “RSNA Left level” boxes, clicking the “>” arrow and clicking “On”.
3. **Cardiac Clamp.** The *Normal* simulation was performed with the addition of clamping cardiac sympathetic and vagal activity at baseline levels. This was done by entering “1.5” into the “Cardiac Sympathetics” box and “2” into the “Vagal Nerve Activity” box, clicking the “>” arrows and clicking “On”.
4. **Renal + Cardiac Clamp.** The *Normal* simulation was performed with the addition of both the *Renal Clamp* and *Cardiac Clamp* perturbations.

Go button to start simulation

