

S1 Table. Relative contribution of each parameter by varying different degrees in HF model at a time. The values of APD₉₀, CaT amplitude and SR Ca²⁺ content were computed relative to control, and the bold font demonstrated the HF model.

Parameters	Relative to control	APD ₉₀	CaT amplitude	JSR Ca ²⁺ content
K_{up}	-90%	+52.7%	+73.0%	+424.3%
	-78%	+ 33.0%	+36.7%	+275.6%
	-65%	+13.3%	+10.1%	+178.8%
	-50%	-1.5%	-9.6%	+115.5%
	-25%	-14.7%	-29.4%	+56.3%
	-0%	-21.3%	-41.4%	+ 22.7%
$J_{up(max)}$	-50%	+7.9%	+ 0.8%	+143.4%
	-30%	+ 33.0%	+36.7%	+275.6%
	-10%	+44.1%	+72.4%	+431.3%
	-0%	+45.3%	+88.7%	+511.2%
G_{Ca}	-50%	+14.3%	+22.2%	+251.0%
	-30%	+ 33.0%	+36.7%	+275.6%
	-10%	+51.7%	+54.1%	+316.3%
	-0%	+59.5%	+62.5%	+338.1%
$J_{rel(max)}$	-80	+17.7%	+ 7.46%	+441.1%
	-60%	+ 33.0%	+36.7%	+275.6%
	-40%	+37.8%	+50.0%	+187.8%
	-0%	+40.7%	+61.8%	+101.7%
G_{to}	-70%	+37.9%	+40.4%	+291.0%
	-50%	+ 33.0%	+36.7%	+275.6%
	-30%	+ 25.2%	+ 31.9%	+256.4%
	-0%	+8.9%	+24.2%	+227.7%
G_{Ks}	-65%	+33.5845%	+36.8497%	+276.1151%
	-45%	+ 33.0463%	+36.6987%	+275.5902%
	-25%	+32.5188%	+36.5502 %	+275.0745%
	-0%	+31.8%	+36.3%	+274.4%
$[Csqn]_{max}$	-30%	+31.7869%	+36.6476%	+274.9764%
	-15%	+ 33.0463%	+36.6987%	+275.5902%
	-5%	+ 33.6383%	+36.7197%	+275.8681%
	-0%	+33.8%	+36.7%	+275.9%