

Table S1. Effects of NAC on SCaTs and SR Ca²⁺ load.

Parameter	Control	MetS	Control +NAC	MetS + NAC
Peak Amplitude ($\Delta F/F_0$)	3.55 ± 0.33	2.28 ± 0.14 [*]	2.44 ± 0.17 [*]	2.98 ± 0.20 ^{&}
d(F/F ₀)/dt ((F/F ₀)/s)	33.48 ± 2.62	22.50 ± 1.74 [*]	21.52 ± 1.18 [*]	28.20 ± 1.99 ^{&#}
DT ₅₀ (s)	0.25 ± 0.02	0.36 ± 0.04 [*]	0.30 ± 0.02	0.24 ± 0.01 ^{&#}
SR Ca ²⁺ load ($\Delta F/F_0$)	4.16 ± 0.27	4.76 ± 0.30	3.86 ± 0.34	4.38 ± 0.20

Data represent the mean ± SEM, N= 15-32 cells from 3-4 animals. *p<0.05 vs Control, &p<0.05 vs MetS and #p<0.05 vs Control + NAC, two-way ANOVA followed by Student Newman–Keuls post hoc test. Peak amplitude ($\Delta F/F_0$), maximal SR Ca²⁺ release rate (d(F/F₀)/dt), time to 50% decay (DT50).