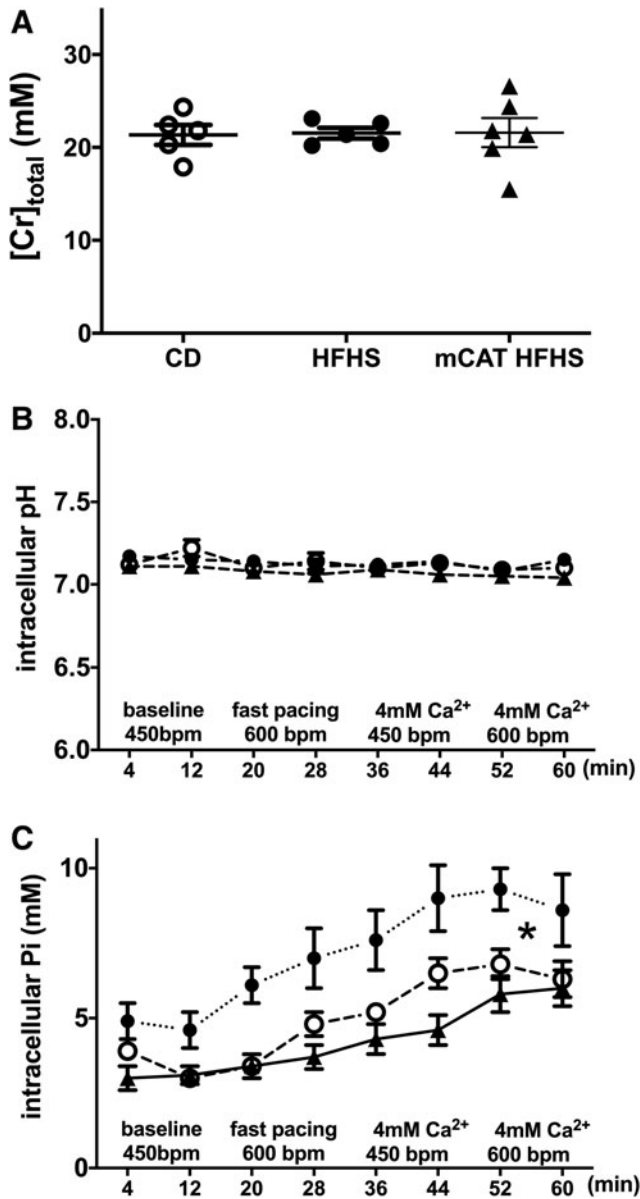


Supplementary Data



SUPPLEMENTARY FIG. S1. Total creatine concentration [Cr]_{total}, intracellular pH, and intracellular phosphate. At the end of the protocol depicted in Figures 2–4, total myocardial creatine concentration [Cr]_{total} determined by thin-layer chromatography was not different in HFHS- versus CD-fed hearts (A). Intracellular pH was calculated from the chemical shift of the intracellular inorganic phosphate (P_i) relative to that of PCr (B), and inorganic phosphate (C) was measured by ³¹P NMR spectroscopy. Inorganic phosphate was higher in HFHS groups throughout the protocol, whereas mCAT has prevented this increase to a level similar to the CD group. For all panels, data are shown as mean ± SEM; *open circles*=CD-fed mice; *filled circles*=HFHS-fed mice; *triangles*=mCAT HFHS mice (*n*=7–8); and **p*<0.05 versus CD-fed mice. CD, control diet; HFHS, high fat, high sucrose; mCAT, transgenic expression of catalase targeted to the mitochondrial; NMR, nuclear magnetic resonance; SEM, standard error of the mean.