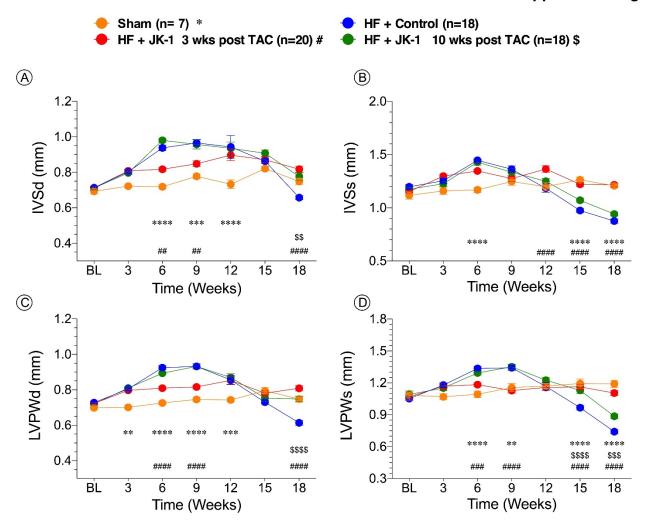
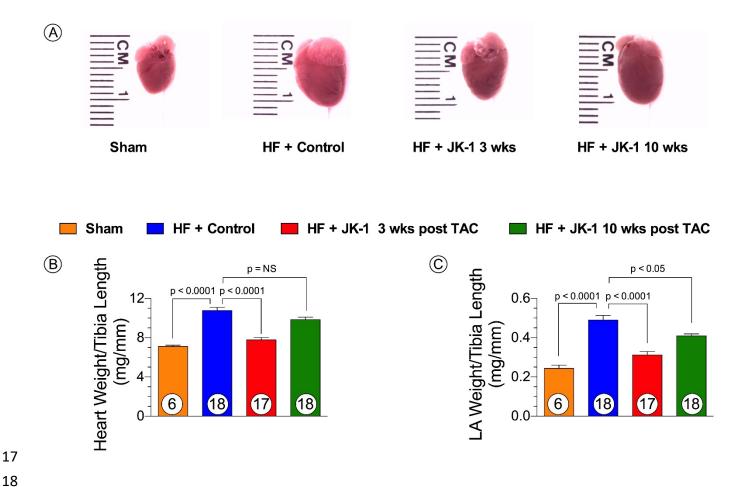
Supplemental Figure 1



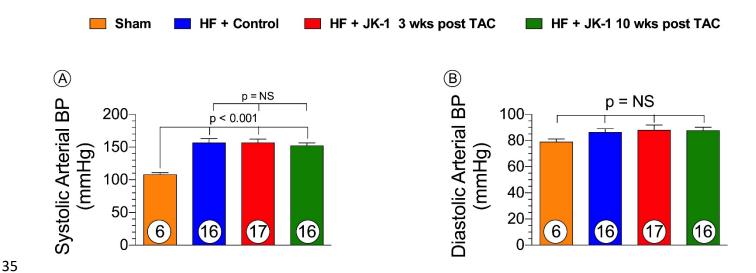
Supplemental Figure 1. Interventricular Septal Wall and LV Posterior Wall Thickness

Interventricular wall thickness at diastole (*A*) and at systole (*B*); left ventricular posterior wall at diastole (*C*) and at systole (*D*) in mice from Sham, HF + Control, HF + JK-1 3 weeks post TAC, and HF + JK-1 10 weeks post TAC groups. **: p < 0.01 between Sham vs. HF + Control; ***: p < 0.001 between Sham vs. HF + Control; #: p < 0.01 between HF + JK-1 3 weeks post TAC vs. HF + Control; ###: p < 0.001 between HF + JK-1 3 weeks post TAC vs. HF + Control; ###: p < 0.001 between HF + JK-1 3 weeks post TAC vs. HF + Control; ###: p < 0.001 between HF + JK-1 10weeks post TAC; \$\$\$: p < 0.001 between HF + JK-1 10weeks post TAC; \$\$\$: p < 0.0001 between HF + JK-1 10weeks post TAC; \$\$\$: p < 0.0001 between HF + JK-1 10weeks post TAC. All data in *Supplemental Figure 1* were analyzed with two-way-ANOVA.



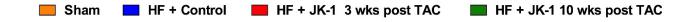
Supplemental Figure 2. Pathological Cardiac Remodeling, Whole Heart Weight to Tibia Length Ratio, and Left Atrial Weight to Tibia Length Ratio

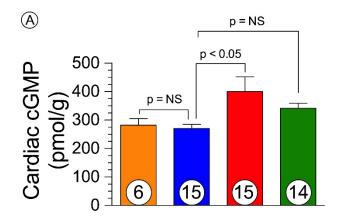
(A) Representative images of the whole heart, (B) whole heart weight to tibia length ratio, and (C) left atrial weight to tibia length ratio in mice from Sham, HF + Control, HF + JK-1 3 weeks post TAC, and HF + JK-1 10 weeks post TAC groups at 18 weeks post-TAC. Circles inside bars denote the sample size.

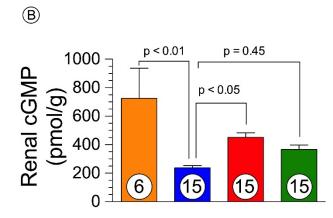


Supplemental Figure 3. Systolic and Diastolic Arterial Blood Pressure

(A) Systolic and (B) diastolic arterial blood pressure from Sham, HF + Control, HF + JK-1 3 weeks post TAC, and HF + JK-1 10 weeks post TAC groups at 18 weeks post-TAC. Circles inside bars denote the sample size.







Supplemental Figure 4. Cardiac and Renal cGMP levels

Levels of cGMP in (**A**) cardiac and (**B**) renal tissues_from Sham, HF + Control, HF + JK-1 3 weeks post TAC, and HF + JK-1 10 weeks post TAC groups at 18 weeks post-TAC. Circles inside bars denote the sample size.