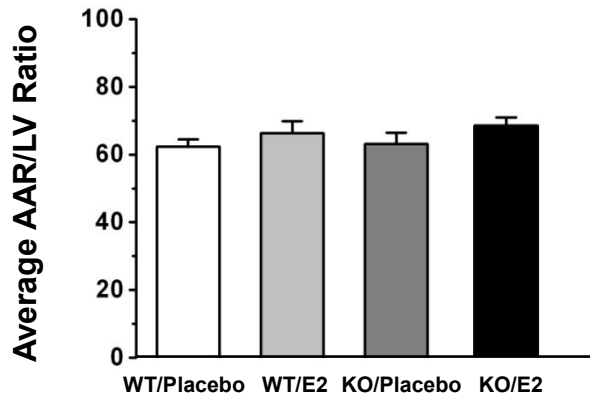
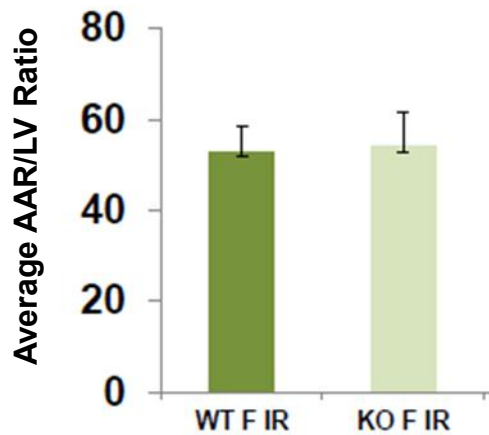


**A****B**

**Figure S1.** (A) Average area-at-risk over left ventricular region ratios recorded in SUR2KO and WT hearts post I-R. Treated mice had similar area-at-risk over LV ratios post I-R, n=6-8. (B) Ovariectomized mice implanted with either estrogen (E2) or placebo pellets displayed comparable area-at-risk over LV ratios after I-R treatment. n=4-5. This is a control parameter that shows our consistency in surgical handling.