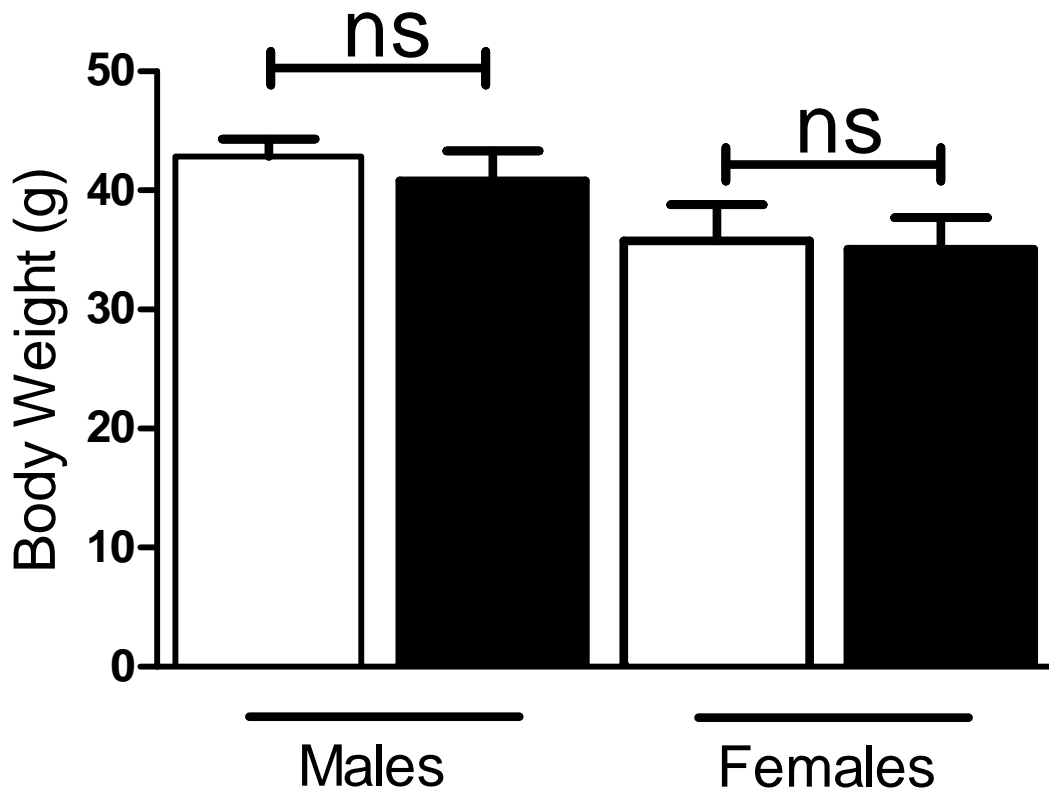


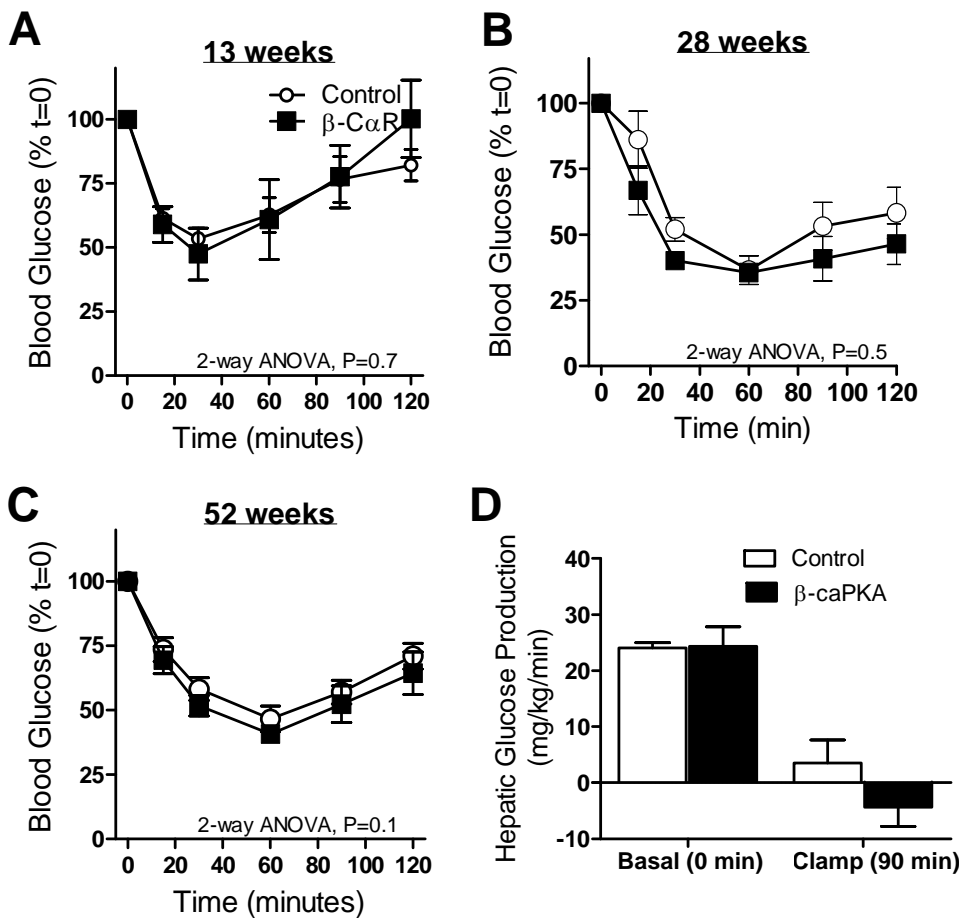
SUPPLEMENTARY DATA

**Supplementary Figure 1. Body weights of male and female control mice (open bars) and  $\beta$ -caPKA (filled bars) mice at 52 weeks of age.** Weights of male mice (n=10 mice/group) and female mice (n=3-8 mice/group) were compared by Student's t-test and found to be not significantly different (ns;  $P>0.05$ ).



SUPPLEMENTARY DATA

**Supplementary Figure 2. Insulin sensitivity is similar in  $\beta$ -caPKA mice and controls.** Insulin tolerance tests (A-C) were performed on  $\beta$ -caPKA (filled) and littermate control mice (open symbols) at 13 (A) and 52 (C) weeks of age, and 28 weeks of age (B) following 16 weeks of a HFD. All mice received tamoxifen to induce PKA activity at 10 weeks of age. Mice were administered an i.p. insulin bolus at: 0.75mU/kg body weight at 13 weeks; 1.0 mU/kg body weight at 28 weeks; and 1.5 mU/kg body weight at 52 weeks of age. Glucose levels are expressed as a percentage of the time = 0 values. (D). Hepatic glucose production in  $\beta$ -caPKA mice and littermate controls as determined by hyperinsulinemic clamp, either prior to the commencement of the clamp, at basal conditions (0 min), or during the last 15 minutes of the clamp (90 min). (A-C). Analyzes were by 2-way ANOVA with the P values given in the individual graphs. A. n=8-16; B. n=7-12; C. n=9-12; D. n=3-5 mice/ group.



SUPPLEMENTARY DATA

**Supplementary Figure 3. Glucose uptake in control and  $\beta$ -caPKA mice.** Peripheral glucose uptake in  $\beta$ -caPKA mice (filled bars) and littermate controls (open bars) prior to a hyperinsulinemic clamp (Basal (0min)) or during the last 15 minutes of a 90 minute hyperinsulinemic clamp (Rd (90 min)). Data compared by 1-way ANOVA, ns: not significant. n=3-5 mice/group.

