

Supplemental Figure 1. Males on HFD have abnormal glucose tolerance earlier than females. Male and female glucose tolerance at (A-B) 4 weeks of age and (C-D) 8 weeks of age, prior to diet treatment. (E-F) Male and female glucose tolerance at 12 weeks of age; CD+HFD males developed hyperglycemia by 15 minutes and remained elevated while CL+HFD males didn't show significantly increased blood glucose until 120 minutes (p<0.05). (G-H) Male and female glucose tolerance at 16 weeks of age; CD+HFD males developed hyperglycemia by 15 minutes and remained elevated compared to CL+HFD males which wasn't significantly elevated until 60 minutes (p<0.05). (I-J) Male and female glucose tolerance at 20 weeks of age; CD+HFD males developed hyperglycemia by 60 minutes and CL+HFD males by baseline (p<0.05); CD+HFD females had hyperglycemia by 15 minutes and remained elevated (p<0.05). Data are presented as mean ± SEM and analyzed by 2-way ANOVAs with Dunnett tests. *p<0.05 **p<0.01 ***p<0.001 ****p<0.0001 vs CL+CON group. Black asterisks indicate CL+HFD group and red asterisks indicate CD+HFD groups. Grey shading indicates period of diet treatment. For males, CL+CON n=9-10, CL+HFD n=9-10, CD+CON n=8-9, CD+HFD n=9-10 at each timepoint; for females, CL+CON n=8-9, CL+HFD n=6-9, CD+CON n=7-10, CD+HFD n=7-11 at each timepoint.