Supplemental Figures

Supplemental figure 1



Supplemental Figure 1: Ablation of *Ppg* in LepRb^{NTS} and GLP1^{NTS} neurons and activation of LepRb^{NTS} or GLP1^{NTS} neurons- male and female data separated. (A-D) Body weight, food intake, and body composition data for Ppg^{LepRb}KO mice from

Figure 2, separated by sex. **(E-H)** Body weight, food intake, and body composition data for Ppg^{ppg}KO mice from Figure 2, separated by sex. **(I)** Body weight data for female Ppg^{AAV-NTS}KO mice (similar to the male data shown for Figure 3D). **(J-N)** Body weight and food intake data from LepRb^{NTS}-Dq and GLP1^{NTS}-Dq mice from Figure 4, separated by sex. Mean +/- SEM is shown; n for each group is shown in each panel.



Supplemental Figure 2: Food intake and body weight data for Figures 5-6, separated by sex. (A-D) Food intake and body weight data from Figure 5C-F, separated by sex. (E-H) Food intake and body weight data from Figure 6C-F, separated by sex. Mean +/- SEM is shown; n for each group is shown in each panel.

Supplemental Figure 3



Supplemental Figure 3: Inhibition of LepRb^{NTS} neurons failed to alter glucose clearance. AAV^{hm4di} was delivered in the NTS of LepRb^{cre} mice (LepRb^{Di} mice). Vehicle (Veh) or CNO (1 mg/kg IP)-paired with glucose (2g/kgm, IP) were injected and glucose concentration in the blood was monitored up to two hours (A). Mean +/- SEM is shown. Two-way ANOVA analysis was performed, no significance found. (B) A representative image showing mCherry-IR (red) to detect DREADD-mCherry in the NTS. AP- area postrema, cc- central canal; scale bars equal 150 μm.