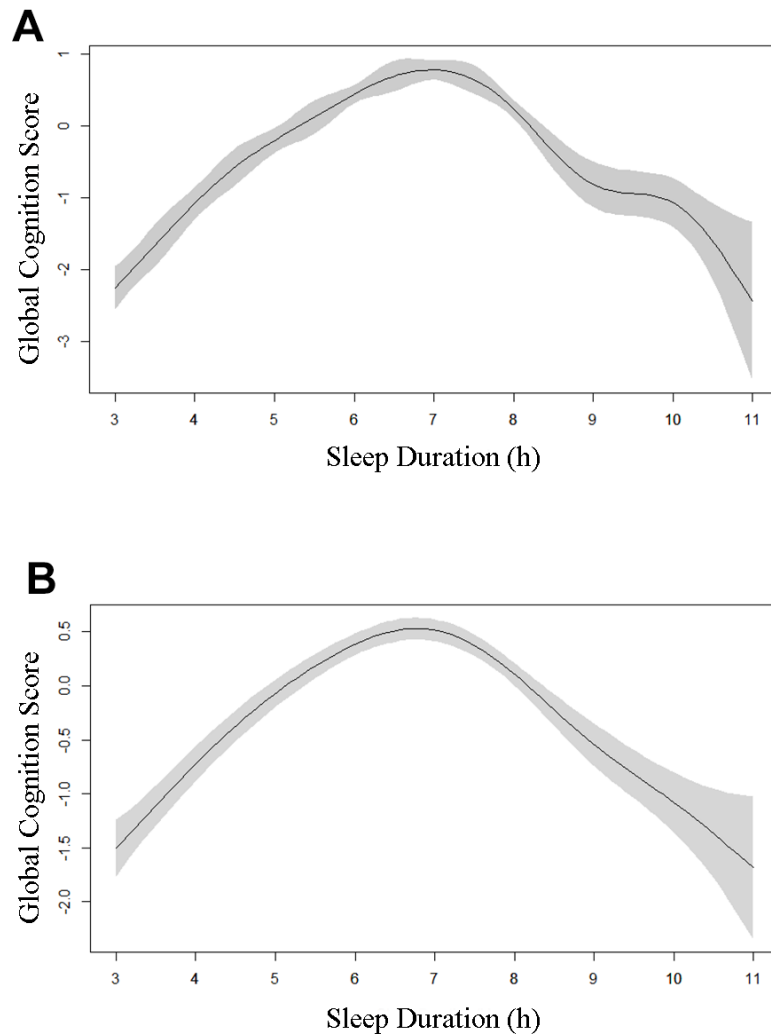
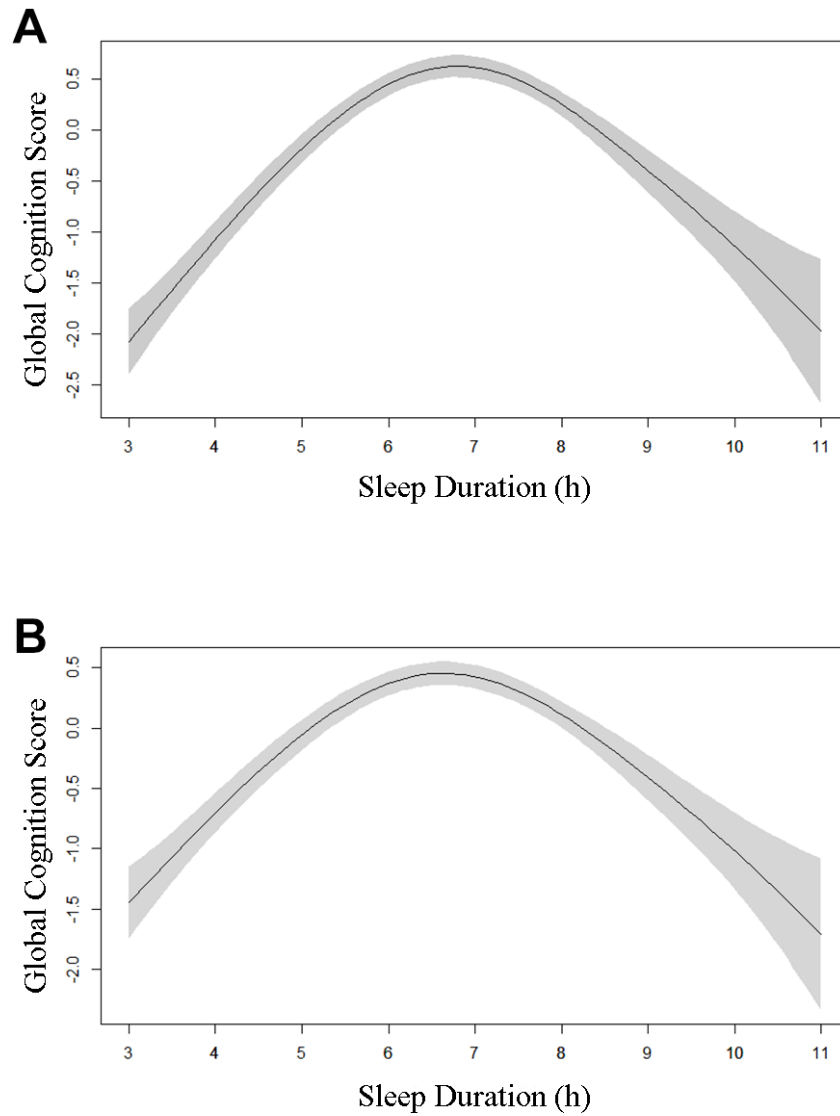


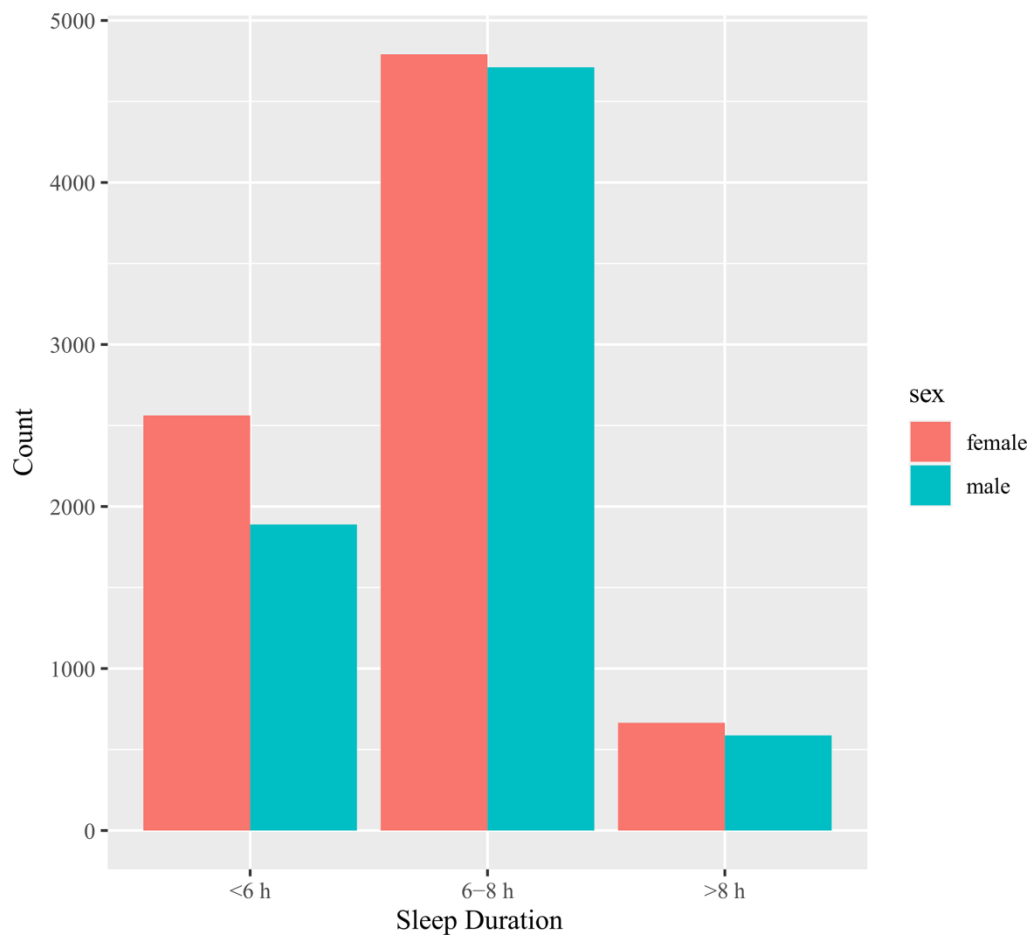
SUPPLEMENTARY FIGURES



Supplementary Figure 1. Plots of the estimated smooth function of sleep duration in Wave 1 with 95% confidence intervals for the GAM when the response variable was global cognition in Wave 1. (A) Model 0 showed a univariate smooth function of sleep duration (EDF = 7.44, $P < 0.001$). (B) Model 1 presented a multivariable smooth function of sleep duration, adjusted for age and sex (EDF = 4.74, $P < 0.001$).



Supplementary Figure 2. Plots of estimated smooth function of sleep duration in Wave 1 with 95% confidence intervals for the GAM when the response variable was global cognition in Wave 3. (A) Model 0 showed a univariate smooth function of sleep duration (EDF = 3.71, $P < 0.001$). (B) Model 1 presented a multivariable smooth function of sleep duration, adjusted for age and sex (EDF = 4.58, $P < 0.001$).



Supplementary Figure 3. Sex differences in sleep duration in Wave 1.