



**Supplementary Figure 1.** Cubic spline functions of the association between average sleep duration and kidney function according to sex. (A) Cubic spline functions of the association between average sleep duration and creatinine in men. (B) Cubic spline functions of the association between average sleep duration and creatinine in women. (C) Cubic spline functions of the association between average sleep duration and estimated glomerular filtration rate (eGFR) in men. (D) Cubic spline functions of the association between average sleep duration and eGFR in women. The shadowed areas represent 95% confidence intervals for the fitted splines. The solid line is a restricted cubic spline. The black dots represent men and the red dots women.