



**Supplementary Figure 2. Final prediction regression model diagnostic plot of residuals versus linear predictions of  $\ln(\text{fat mass})$**

Dots represent (A) 118 females and (B) 120 males in the model development sample, respectively. The plots of residuals and linear predictions of natural log-transformed fat mass showed residuals randomly scattered around  $y=0$ , suggesting that the homoscedasticity assumption holds.