



**S2 Fig. Diagnostic plots for the best-fit generalized additive mixed model on overall dynamic body acceleration.** (a) Quantile-quantile (Q-Q) plot for deviance residuals of the model with 1:1 line (red). (b) Distribution of normalized residuals with fitted normal curve (red). (c) Residuals versus linear predictor with zero-centered line (red). (d) Fitted values versus observed values with 1:1 line (red).