

### Supplementary Figure S3. Prediction-corrected Visual Predictive Check Stratified by Ethnicity

Prediction-corrected visual predictive check for the final model; the red lines at the center represent the median concentrations observed and the dotted red lines represent the 5th and 95th percentiles for observations. The red areas represent the 95% confidence interval for the 50th percentiles prediction interval and the blue areas represent those for the 5th and 95th percentiles prediction intervals.

