

Supplemental Figure 1. SAS Code for Neighborhood Clustering Linear Mixed Model using separate the dependent variables: trimethylamine-N-oxide (TMAO), IL(Interleukin)-1 β , and Tumor Necrosis Factor (TNF)- α .

```
proc glimmix data=g.wgeoid;
  class geoid;
  model TMAO = ndi_1 BMI__kg_M2 ASCVD_10_yr / dist=normal
  link=identity stdcoef solution;
  random int / subject=geoid type=un;
run;
```