**Figure 1.** Global and LISA tests for spatial autocorrelation across age-standardized (ages 25-64) both-sex mortality rates, 2015.

**Figure 2.** Changes in observed, age-standardized (ages 25-64) mortality rates from all causes between 2000 and 2015. (STACKED BAR PLOT)

**Figure 3.** Changes in observed, age-standardized (ages 25-64) mortality rates from all causes between 2000 and 2015. (HEAT MAP)

**Table 1.** Changes in contextual characteristics between 2000 and 2015, aggregated to metro-region.

**Table 2.** Estimated coefficients (odds-ratios) for all-cause mortality model. Coefficients are included for the following model specifications: 1) baseline terms, 2) SES, 3) Healthcare, 4) Health Behaviors, 5) Population Composition, 6) all covariates, 7) all covariates and spatial random effects.

**Appendix Table 1.** County-level contextual characteristics by source and year coverage.

**Appendix Table 2.** County-level contextual characteristics for 2000 and 2015, aggregated to metro-region.

**Appendix Figure 1.** Changes in observed, age-standardized (ages 25-64) mortality rates from cardiovascular disease between 2000 and 2015.

**Appendix Figure 2.** Changes in observed, age-standardized (ages 25-64) mortality rates from drug-related causes between 2000 and 2015.

**Appendix Figure 3.** Changes in observed, age-standardized (ages 25-64) mortality rates from lung-related causes between 2000 and 2015.

**Appendix Figure 4.** Changes in observed, age-standardized (ages 25-64) mortality rates from suicide between 2000 and 2015.