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| Table 1: Result of the SAC Model Taking Mortality as the Dependent Variable | | | |
|  | Direct Impacts | Indirect Impacts | Total Impacts |
| Open Water (%) | -0.005646\*\* | 0.001527\*\* | -0.004119\*\* |
|  | (0.002608) | (0.000749) | (0.001891) |
| Open Space Developed Area (%) | 0.027805\*\* | -0.007519\*\* | 0.020286\*\* |
|  | (0.013005) | (0.003622) | (0.00955) |
| Low Intensity Developed Area (%) | -0.011578 | 0.003131 | -0.008447 |
|  | (0.014244) | (0.003925) | (0.010375) |
| Medium Intensity Developed Area (%) | -0.019557 | 0.005289 | -0.014268 |
|  | (0.022297) | (0.006103) | (0.016285) |
| High Intensity Developed Area (%) | 0.037524 | -0.010147 | 0.027377 |
|  | (0.026059) | (0.007163) | (0.019078) |
| Deciduous Forest (%) | -0.008322\*\*\* | 0.00225\*\*\* | -0.006071\*\*\* |
|  | (0.002366) | (0.000702) | (0.001731) |
| Evergreen Forest (%) | -0.005833\*\* | 0.001577\*\* | -0.004256\*\* |
|  | (0.002968) | (0.000819) | (0.00218) |
| Mixed Forest (%) | -0.00109 | 0.000295 | -0.000795 |
|  | (0.004576) | (0.001245) | (0.003342) |
| Shrub (%) | 0.002565 | -0.000694 | 0.001871 |
|  | (0.002802) | (0.000764) | (0.00205) |
| Grassland (%) | 0.00028 | -7.6e-05 | 0.000205 |
|  | (0.002454) | (0.000665) | (0.001795) |
| Woody Wetlands (%) | 0.000195 | -5.3e-05 | 0.000142 |
|  | (0.004057) | (0.001101) | (0.002966) |
| Emergent Herbaceous Wetlands (%) | -0.012675 | 0.003428 | -0.009247 |
|  | (0.007617) | (0.002109) | (0.005571) |
| Prevalence Rate (cap/1000) | 0.013011\*\*\* | -0.003519\*\*\* | 0.009493\*\*\* |
|  | (0.000635) | (0.000428) | (0.000589) |
| Gathering Restrictions (days) | -0.000167 | 4.5e-05 | -0.000122 |
|  | (0.000348) | (9.6e-05) | (0.000254) |
| Transport Closing (days) | -0.000712\*\*\* | 0.000193\*\*\* | -0.00052\*\*\* |
|  | (0.000193) | (5.8e-05) | (0.000141) |
| Staying Home (days) | -0.002503\*\*\* | 0.000677\*\*\* | -0.001826\*\*\* |
|  | (0.000677) | (0.000207) | (0.000491) |
| Internal MoRe (days) | -0.00295 | 0.000798 | -0.002152 |
|  | (0.006905) | (0.001871) | (0.005053) |
| International MoRe (days) | 0.008052 | -0.002178 | 0.005875 |
|  | (0.006843) | (0.001864) | (0.005017) |
| Population 15-44 (%) | -0.049464\*\*\* | 0.013376\*\*\* | -0.036088\*\*\* |
|  | (0.010133) | (0.003108) | (0.007561) |
| Population 45-64 (%) | -0.004694 | 0.001269 | -0.003425 |
|  | (0.013275) | (0.003608) | (0.009702) |
| Population >= 65 (%) | 0.005111 | -0.001382 | 0.003729 |
|  | (0.009735) | (0.002657) | (0.0071) |
| Black People (%) | -0.004495 | 0.001216 | -0.003279 |
|  | (0.002839) | (0.000796) | (0.002063) |
| Hispanic People (%) | -0.016814\*\*\* | 0.004547\*\*\* | -0.012267\*\*\* |
|  | (0.003767) | (0.001187) | (0.002739) |
| Male (%) | -0.036678\*\*\* | 0.009919\*\*\* | -0.02676\*\*\* |
|  | (0.010031) | (0.002966) | (0.007377) |
| Unemployment Rate | 0.04301\*\* | -0.011631\*\* | 0.031379\*\* |
|  | (0.020824) | (0.005788) | (0.015261) |
| Median Household Income (logarithm) | -1.401255\*\*\* | 0.378932\*\*\* | -1.022323\*\*\* |
|  | (0.213768) | (0.073119) | (0.159606) |
| Poverty Rate (%) | 0.012989 | -0.003512 | 0.009476 |
|  | (0.00787) | (0.002165) | (0.005765) |
| Adults Without High School Diploma (%) | 0.019924\*\*\* | -0.005388\*\*\* | 0.014536\*\*\* |
|  | (0.005513) | (0.001581) | (0.004098) |
| Poor Health Rate (%) | 0.063922\*\*\* | -0.017286\*\*\* | 0.046636\*\*\* |
|  | (0.017658) | (0.00532) | (0.012865) |
| Poor Physical Health (days) | -0.184678 | 0.049941 | -0.134737 |
|  | (0.13012) | (0.035925) | (0.095069) |
| Poor Mental Health (days) | -0.230416\* | 0.06231\* | -0.168106\* |
|  | (0.115121) | (0.032536) | (0.083802) |
| Adult Smoking Rate (%) | -0.039115\*\*\* | 0.010577\*\*\* | -0.028537\*\*\* |
|  | (0.014334) | (0.00408) | (0.010518) |
| Obesity Rate (%) | -0.006043 | 0.001634 | -0.004409 |
|  | (0.006535) | (0.001789) | (0.004774) |
| Physical Inactivity Rate (%) | 0.008252 | -0.002231 | 0.00602 |
|  | (0.006747) | (0.001842) | (0.004942) |
| Having Access To Exercise Opportunities (%) | -0.000961 | 0.00026 | -0.000701 |
|  | (0.000967) | (0.000265) | (0.000706) |
| Hospital Beds (bed/1000) | 0.004987 | -0.001349 | 0.003638 |
|  | (0.003772) | (0.001033) | (0.002762) |
| Average Temperature In Summer | 0.090952\*\*\* | -0.024596\*\*\* | 0.066357\*\*\* |
|  | (0.025327) | (0.007782) | (0.018243) |
| Average Temperature In Winter | 0.029361\* | -0.00794\* | 0.021421\*\* |
|  | (0.015092) | (0.004276) | (0.010973) |
| Average Relative Humidity In Summer | 0.019894\*\*\* | -0.00538\*\* | 0.014514\*\*\* |
|  | (0.007288) | (0.002139) | (0.005277) |
| Average Relative Humidity In Winter | -0.010229 | 0.002766 | -0.007463 |
|  | (0.009529) | (0.002606) | (0.006965) |
| PM2.5 | -0.056104\* | 0.015172\* | -0.040932\* |
|  | (0.03291) | (0.009117) | (0.024096) |
| Spatially lagged dependence coefficient (ρ) | -0.34506\*\*\* | Log likelihood | -4093.374 |
| Spatially error dependence coefficient (λ) | 0.68623\*\*\* | AIC | 8276.7 |
| Number of observations | 3103 | R2 | 0.5984 |
| Note: the standard errors of the estimated parameters are list in the parentheses.  \*\*\*: p<0.01; \*\*:p<0.05; \*:p<0.1 | | | |