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| **Interrupted Time Series Models of the Murder Rate** | | | | | |
|  | | | | | |
|  | Murder Rate | | | | |
|  |  | | | | |
|  | Rate per 100,000 | | | | |
|  | AR(1) TSR | AR(1) TSR | RE HLM | RE HLM | RE HLM +Int. |
|  | (1) | (2) | (3) | (4) | (5) |
|  | | | | | |
| T | 0.001 | 0.001 | 0.0001 | 0.0001 | 0.0001 |
|  | (0.0002|0.001) | (-0.0002|0.001) | (0.00002|0.0002) | (-0.00001|0.0002) | (-0.00002|0.0002) |
| COVID - State of Emergency | -0.025 | -0.044 | -0.428 | -0.332 | -0.264 |
|  | (-0.255|0.205) | (-0.282|0.194) | (-1.881|1.025) | (-1.785|1.121) | (-1.812|1.283) |
| COVID - Stay at Home | -0.038 | -0.028 | -0.262 | -0.331 | -0.333 |
|  | (-0.275|0.199) | (-0.272|0.217) | (-1.756|1.231) | (-1.823|1.162) | (-1.924|1.257) |
| Post-Killing | 0.309 | 0.283 | 0.887 | 0.848 | 0.809 |
|  | (0.078|0.541) | (0.042|0.525) | (-0.639|2.413) | (-0.677|2.373) | (-0.928|2.546) |
| T Post-Killing | -0.004 | -0.004 | -0.033 | -0.032 | -0.040 |
|  | (-0.006|-0.002) | (-0.006|-0.002) | (-0.085|0.019) | (-0.084|0.020) | (-0.095|0.016) |
| MPD Use of Force t-1 |  | 0.159 |  | -0.095 | -0.036 |
|  |  | (-0.346|0.664) |  | (-0.150|-0.039) | (-0.088|0.015) |
| MPD Stops t-1 |  | -0.054 |  | 0.020 | 0.074 |
|  |  | (-0.148|0.039) |  | (0.003|0.037) | (0.055|0.092) |
| MPD OIS t-1 |  | 5.056 |  | 2.313 | 2.586 |
|  |  | (-11.273|21.385) |  | (-9.418|14.045) | (-9.350|14.521) |
| AR(1) | -0.107 | -0.139 |  |  |  |
|  | (-0.220|0.006) | (-0.261|-0.016) |  |  |  |
| Median HH Income |  |  |  |  | -0.00000 |
|  |  |  |  |  | (-0.00001|0.00001) |
| Percent Black |  |  |  |  | 0.0005 |
|  |  |  |  |  | (-0.014|0.015) |
| Post-Killing X Percent Black |  |  |  |  | 0.015 |
|  |  |  |  |  | (-0.017|0.048) |
| Constant | -0.028 | 0.038 | 0.237 | 0.306 | 0.461 |
|  | (-0.303|0.247) | (-0.354|0.429) | (-1.845|2.319) | (-1.779|2.392) | (-1.819|2.741) |
|  | | | | | |
| SD(ZCTA) |  |  | 0.904 | 0.922 | 0.504 |
| SD(Residual) |  |  | 5.352 | 5.364 | 5.577 |
| Observations | 312 | 269 | 5,929 | 5,926 | 5,458 |
| R2 | 0.297 | 0.315 |  |  |  |
| Log Likelihood |  |  | -18,795.350 | -18,783.110 | -17,400.650 |
| Akaike Inf. Crit. |  |  | 37,616.700 | 37,598.210 | 34,839.310 |
| Bayesian Inf. Crit. |  |  | 37,703.640 | 37,705.210 | 34,964.800 |
| Residual Std. Error | 0.192 (df = 300) | 0.197 (df = 254) |  |  |  |
| F Statistic | 11.538\*\*\* (df = 11; 300) | 8.334\*\*\* (df = 14; 254) |  |  |  |
|  | | | | | |
| Models include controls for seasonality. | 95% Confidence Intervals in parentheses | | | | |