Table 1: Test for variance among families and populations

Model: Dead ~ Block + (1 | Population) + (1 | Population:Family)

PVE for population: 11.684. PVE for family: 8.19

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2020 | Family | 0.1695 |
| Population | **0.037** |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: Dead ~ Block + (1 | Population) + (1 | Population:Family) + City\_dist

PVE for population: 11.398. PVE for family: 7.666

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2020 | Family | 0.1635 |
| Population | 0.052 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 5.973 | 0.113 |
| Distance to City Center | 1.088 | 0.297 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: Dead ~ Block + (1 | Population) + (1 | Population:Family) + Urb\_score

PVE for population: 11.507. PVE for family: 7.892

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2020 | Family | 0.166 |
| Population | **0.044** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 6.059 | 0.109 |
| Urbanization Score | 0.811 | 0.368 |