Table 1: Test for variance among families and populations

Model: Dead ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.036 | 1.09 | **0.0215** |
| Population | 0.301 | 8.39 | 0.477 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.035 | 1.048 | **0.022** |
| Population | 0.299 | 8.338 | 0.477 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2021 | Block | 54.835 | **<0.001\*\*\*** |
| Distance to City Center | 0.095 | 0.757 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.036 | 1.083 | **0.021** |
| Population | 0.303 | 8.424 | 0.477 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2021 | Block | 54.417 | **<0.001\*\*\*** |
| Urbanization Score | 0.113 | 0.737 |