Table 1: Test for variance among families and populations

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

PVE for population: 8.39. PVE for family: 1.09

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2021 | Family | **0.0215** |
| Population | 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:Family) + City\_dist

PVE for population: 8.338. PVE for family: 1.048

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2021 | Family | **0.022** |
| Population | 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:Family) + Urb\_score

PVE for population: 8.424. PVE for family: 1.083

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2021 | Family | **0.021** |
| Population | 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 |