Table 1: Test for variance among families and populations

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

PVE for population: 15.818. PVE for family: 8.435

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2020 | Family | 0.0955 |
| Population | 0.0575 |

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: 15.507. PVE for family: 7.919

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2020 | Family | 0.0905 |
| Population | 0.077 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 6.132 | 0.105 |
| Distance to City Center | 1.173 | 0.279 |

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: 15.624. PVE for family: 8.141

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2020 | Family | 0.0925 |
| Population | 0.0665 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 6.226 | 0.101 |
| Urbanization Score | 0.864 | 0.353 |