Table 1: Test for variance among families and populations

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

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2022 | Family | 0.082 | 2.419 | 0.778 | 1 | 0.189 |
| Population | 0.160 | 4.631 | 0.795 | 1 | 0.186 |

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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2022 | Family | 0.082 | 2.421 | 0.781 | 1 | 0.1885 |
| Population | 0.160 | 4.640 | 0.804 | 1 | 0.185 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2022 | Block | 32.204 | **<0.001\*\*\*** |
| Distance to City Center | 0.104 | 0.747 |

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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2022 | Family | 0.082 | 2.421 | 0.758 | 1 | 0.192 |
| Population | 0.159 | 4.607 | 0.820 | 1 | 0.1825 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2022 | Block | 32.296 | **<0.001\*\*\*** |
| Urbanization Score | 0.204 | 0.652 |