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: 2020 | Family | 0.303 | 8.435 | 1.713 | 1 | 0.0955 |
| Population | 0.618 | 15.818 | 2.484 | 1 | 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:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2020 | Family | 0.283 | 7.919 | 1.786 | 1 | 0.0905 |
| Population | 0.604 | 15.507 | 2.030 | 1 | 0.077 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | 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:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2020 | Family | 0.292 | 8.141 | 1.753 | 1 | 0.0925 |
| Population | 0.609 | 15.624 | 2.255 | 1 | 0.0665 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2020 | Block | 6.226 | 0.101 |
| Urbanization Score | 0.864 | 0.353 |