Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.011 | 0.34 | **0.007** |
| Population | 0.456 | 12.17 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2021 | Block | 31.167 | **<0.001\*\*\*** |
| Subtransect | 0.173 | 0.677 |
| Distance to City Center | 1.549 | 0.213 |
| Subtransect x Distance to City Center | 1.287 | 0.257 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

| Variable | Group | Variance | PVE | p |
| --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.011 | 0.337 | **0.007** |
| Population | 0.456 | 12.167 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2021 | Block | 32.784 | **<0.001\*\*\*** |
| Subtransect | 0.501 | 0.479 |
| Urbanization Score | 0.356 | 0.551 |
| Subtransect x Urbanization Score | 1.853 | 0.173 |