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: 2022 | Family | 0.077 | 2.284 | **0.025** |
| Population | 0.316 | 8.760 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2022 | Block | 22.880 | **<0.001\*\*\*** |
| Subtransect | 0.060 | 0.807 |
| Distance to City Center | 1.019 | 0.313 |
| Subtransect x Distance to City Center | 1.272 | 0.259 |

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: 2022 | Family | 0.062 | 1.848 | **0.0245** |
| Population | 0.305 | 8.476 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2022 | (Intercept) | 1.691 | 0.193 |
| Block | 24.252 | **<0.001\*\*\*** |
| Subtransect | 2.420 | 0.12 |
| Urbanization Score | 1.486 | 0.223 |
| Subtransect x Urbanization Score | 3.030 | 0.082 |