Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

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

PVE for population: 6.959. PVE for family: 7.071

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2019 | Family | 0.4735 |
| Population | 0.1275 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2019 | (Intercept) | 1.275 | 0.259 |
| Block | 4.008 | 0.261 |
| Subtransect | 1.475 | 0.225 |
| Distance to City Center | 3.953 | **0.047\*** |
| Subtransect x Distance to City Center | 3.397 | 0.065 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

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

PVE for population: 8.601. PVE for family: 10.501

| Variable | Group | p |
| --- | --- | --- |
| Mortality: 2019 | Family | 0.4795 |
| Population | 0.0525 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2019 | Block | 3.991 | 0.262 |
| Subtransect | 1.189 | 0.276 |
| Urbanization Score | 0.980 | 0.322 |
| Subtransect x Urbanization Score | 1.346 | 0.246 |