| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2019 | Block | 4.053 | 0.256 |
| Subtransect | 1.249 | 0.264 |
| Urbanization Score | 1.028 | 0.311 |
| Subtransect x Urbanization Score | 1.341 | 0.247 |

Table 4: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2019 | Family | 0.421 | 11.343 | 0.000 | 1 | 0.5 |
| Mortality: 2019 | Population | 0.760 | 18.768 | 1.833 | 1 | 0.088 |

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

Urbanization = Urbanization Score

Table 3: Assess how much variance is explained by transect

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| Mortality: 2019 | (Intercept) | 1.394 | 0.238 |
| Block | 4.076 | 0.253 |
| Subtransect | 1.449 | 0.229 |
| Distance to City Center | 3.897 | **0.048\*** |
| Subtransect x Distance to City Center | 3.371 | 0.066 |

Table 2: Quantify variance explained by transect

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2019 | Family | 0.279 | 7.818 | 0.158 | 1 | 0.3455 |
| Mortality: 2019 | Population | 0.638 | 16.251 | 0.855 | 1 | 0.1775 |

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

Urbanization = Distance to the City Center

Table 1: Assess how much variance is explained by transect