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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.012 | 0.353 | 6.597 | 1 | **0.005** |
| Population | 0.502 | 13.250 | -0.010 | 1 | 0.5 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2021 | Block | 34.044 | **<0.001\*\*\*** |
| Subtransect | 0.190 | 0.663 |
| Distance to City Center | 1.722 | 0.189 |
| Subtransect x Distance to City Center | 1.377 | 0.241 |

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 | Ï‡2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| Mortality: 2021 | Family | 0.012 | 0.353 | 6.63 | 1 | **0.005** |
| Population | 0.502 | 13.246 | 0.00 | 1 | 0.5 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Mortality: 2021 | Block | 33.712 | **<0.001\*\*\*** |
| Subtransect | 0.532 | 0.466 |
| Urbanization Score | 0.381 | 0.537 |
| Subtransect x Urbanization Score | 1.966 | 0.161 |