|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Variance component | | | | |  | Variance difference | | | | |
| Sex |  |  | Median | CI\_low | CI\_high |  |  | Median | CI\_low | CI\_high | pd |
|  | Vi | Females | 0.03 | 0.00 | 0.16 |  | ∆Vi | 0.44 | 0.03 | 1.07 | **0.99** |
|  |  | Males | 0.49 | 0.08 | 1.10 |  |  |  |  |  |  |
|  | Vfe | Females | 0.02 | 0.00 | 0.07 |  | ∆Vfe | 0.07 | -0.03 | 0.35 | 0.88 |
|  |  | Males | 0.09 | 0.01 | 0.38 |  |  |  |  |  |  |
|  | VR | Females | 4.56 | 4.38 | 4.78 |  | ∆VR | 0.65 | 0.08 | 1.45 | **0.99** |
|  |  | Males | 5.21 | 4.69 | 6.01 |  |  |  |  |  |  |
|  | Variance explained (R2) |  |  |  |  |  |  |  |  |  |  |
|  | R2i | Females | 0.01 | 0.00 | 0.04 |  | ∆R2i | 0.08 | 0.01 | 0.17 | **0.98** |
|  |  | Males | 0.09 | 0.02 | 0.18 |  |  |  |  |  |  |
|  | R2fe | Females | 0.00 | 0.00 | 0.01 |  | ∆R2fe | 0.01 | -0.01 | 0.07 | 0.86 |
|  |  | Males | 0.02 | 0.00 | 0.07 |  |  |  |  |  |  |
|  | R2R | Females | 0.99 | 0.96 | 1.00 |  | ∆R2R | -0.08 | -0.17 | -0.01 | **0.98** |
|  |  | Males | 0.91 | 0.82 | 0.98 |  |  |  |  |  |  |
| Maturity |  |  | Median | CI\_low | CI\_high |  |  | Median | CI\_low | CI\_high | pd |
|  | Vi | Juveniles | 0.07 | 0.00 | 0.24 |  | ∆Vi | 0.22 | -0.10 | 0.64 | 0.91 |
|  |  | Adults | 0.30 | 0.00 | 0.70 |  |  |  |  |  |  |
|  | Vfe | Juveniles | 0.02 | 0.00 | 0.08 |  | ∆Vfe | 0.11 | -0.01 | 0.33 | 0.96 |
|  |  | Adults | 0.14 | 0.02 | 0.36 |  |  |  |  |  |  |
|  | VR | Juveniles | 4.69 | 4.47 | 4.97 |  | ∆VR | 0.10 | -0.29 | 0.60 | 0.66 |
|  |  | Adults | 4.78 | 4.47 | 5.23 |  |  |  |  |  |  |
|  | Variance explained (R2) |  |  |  |  |  |  |  |  |  |  |
|  | R2i | Juveniles | 0.01 | 0.00 | 0.05 |  | ∆R2i | 0.04 | -0.03 | 0.12 | 0.88 |
|  |  | Adults | 0.06 | 0.00 | 0.13 |  |  |  |  |  |  |
|  | R2fe | Juveniles | 0.00 | 0.00 | 0.02 |  | ∆R2fe | 0.02 | 0.00 | 0.06 | 0.95 |
|  |  | Adults | 0.03 | 0.00 | 0.07 |  |  |  |  |  |  |
|  | R2R | Juveniles | 0.99 | 0.95 | 1.00 |  | ∆R2R | -0.04 | -0.12 | 0.03 | 0.88 |
|  |  | Adults | 0.94 | 0.87 | 1.00 |  |  |  |  |  |  |
| Injury |  |  |  |  |  |  |  |  |  |  |  |
|  | Vi | Non-injured | 0.26 | 0.09 | 0.49 |  | ∆Vi | -0.24 | -0.47 | 0.21 | 0.93 |
|  |  | Injured | 0.00 | 0.00 | 0.43 |  |  |  |  |  |  |
|  | Vfe | Non-injured | 0.04 | 0.01 | 0.12 |  | ∆Vfe | 0.06 | -0.07 | 0.49 | 0.76 |
|  |  | Injured | 0.11 | 0.00 | 0.53 |  |  |  |  |  |  |
|  | VR | Non-injured | 4.76 | 4.52 | 5.06 |  | ∆VR | -0.42 | -0.85 | 0.27 | 0.90 |
|  |  | Injured | 4.33 | 4.04 | 5.01 |  |  |  |  |  |  |
|  | Variance explained (R2) |  |  |  |  |  |  |  |  |  |  |
|  | R2i | Non-injured | 0.05 | 0.02 | 0.09 |  | ∆R2i | -0.05 | -0.09 | 0.04 | 0.93 |
|  |  | Injured | 0.00 | 0.00 | 0.08 |  |  |  |  |  |  |
|  | R2fe | Non-injured | 0.01 | 0.00 | 0.02 |  | ∆R2fe | 0.01 | -0.01 | 0.11 | 0.78 |
|  |  | Injured | 0.02 | 0.00 | 0.11 |  |  |  |  |  |  |
|  | R2R | Non-injured | 0.95 | 0.91 | 0.98 |  | ∆R2R | 0.05 | -0.04 | 0.09 | 0.93 |
|  |  | Injured | 1.00 | 0.92 | 1.00 |  |  |  |  |  |  |

Table S5. Variance and variance explained (R2) compared among sex, maturity and injury status for random effects and fixed effect predictors of the probability of leading a foraging group. Binomial GLMMs were fitted to each subset of the data using a logit link. Variance distributions were calculated using 1000 bootstraps. Vi: among-individual variance, Vfe: variance explained by fixed effects, VR: residual variance. The differences in variance (∆V) or in variance explained (∆R2) were calculated by subtracting the bootstrapped values from each distribution (Sex: ∆V = Vmales -Vfemales; Maturity: ∆V = Vadult – Vjuveniles; Injury: ∆V = Vinjured -Vnon-injured). The probability of direction (pd) indicates the probability that variance components differ, values > 0.975 are equivalent to a statistically significant difference for a two-tailed test at 𝛼 = 0.05.