Latest parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Exponentiated Co-efficient | CI 2.5-97.5% | p-value | χ2 | p-value |
| Intercept | 14.22819 | 2.49 – 2.82 | 0.0001 | - | - |
| Gender of participant | 1.283092 | 0.17 – 0.33 | 0.0001 | 33.15 | 0.0001 |
| Age of participant (decades) | 0.976744 | -0.03 – 0.02 | 0.0001 | 225.24 | 0.0001 |
| Occupation of participant | 0.918797 | -0.14 – 0.03 | 0.0020 | 9.48 | 0.0021 |
| If participant owns dog | 1.062238 | 0.01 – 0.11 | 0.0204 | 5.36 | 0.0207 |
| Ever bitten by dog | 0.865075 | -0.23 – -0.06 | 0.0014 | 10.23 | 0.0014 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Exponentiated Co-efficient | CI +/-95% | p-value | χ2 | p-value |
| Intercept | 2.425673 | 0.66 – 1.15 | 0.0001 | - | - |
| Gender of participant | 1.283414 | 0.15 – 0.35 | 0.0001 | 22.25 | 0.0001 |
| Age of participant | 1.006111 | 0.00 – 0.01 | 0.0001 | 15.25 | 0.0001 |
| Participant level of education | 1.163414 | 0.05 – 0.25 | 0.0021 | 9.37 | 0.0022 |
| Ever bitten by dog | 1.141098 | 0.03 – 0.23 | 0.0102 | 6.60 | 0.0102 |

Linear model is a log of the mean score

Intercept is the prediction when the reference variable is zero, being female

Is only additive on the log scale, it becomes multiplicative when exponentiated: implies for example men had on average 28% more knowledge than women, adjusted mean a male and female being equal in all respect

A participant of 1 year (1 unit) older had 0.6% score higher than; 1.006111\*0.006, age can be rescaled to decades

Agedecade<-age/10

Find package for calculating R square for glmmTMB, https://github.com/glmmTMB/glmmTMB/issues/169#issuecomment-967400497

Zuur, A.F.; Ieno, E.N.; Elphick, C.S (2010). "A protocol for data exploration to avoid common statistical problems". Methods in Ecology and Evolution. 1: 3–14. doi:10.1111/j.2041-210X.2009.00001.x