# **2. Method**

## **2.1. Means**

Means and

Table 1.

*Mean (M) and Standard Deviation (SD) Scores across the study’s measures.*

|  |  |  |
| --- | --- | --- |
| Measure Titles | M | SD |
| Memory - CWID | 2.98 | 1.32 |
| Ability to Testify - CWID | 3.41 | 0.99 |
| Suggestibility - CWID | 4.07 | 1.03 |
| Memory - TD Child (ages 3-5) | 2.66 | 1.40 |
| Ability to Testify in Court - TD Child (ages 3-5) | 3.18 | 0.93 |
| Suggestibility - TD Child (ages 3-5) | 4.06 | 1.03 |
| Memory - TD Child (ages 6-11) | 3.59 | 1.33 |
| Ability to Testify in Court - TD Child (ages 6-11) | 3.82 | 0.87 |
| Suggestibility - TD Child (ages 6-11) | 4.02 | 0.90 |
| Memory - AWID | 3.67 | 1.30 |
| Ability to Testify - AWID | 3.85 | 0.97 |
| Suggestibility - AWID | 3.71 | 1.02 |
| Memory - TD Adult | 5.24 | 1.37 |
| Ability to Testify - TD Adult | 4.92 | 0.64 |
| Suggestibility - TD Adult | 3.08 | 1.12 |

## **2.1. Reliability**

Reliability scores are summarised in Table 2.

Table 2.

*Reliability Scores across the Ability to Testify and Suggestibility measures*

|  |  |  |  |
| --- | --- | --- | --- |
| Measure Titles | α | ω | H |
| Ability to Testify - CWID | .70 | .80 | .85 |
| Suggestibility - CWID | .71 | .76 | .80 |
| Ability to Testify in Court – TD Child (ages 3-5) | .68 | .78 | .84 |
| Suggestibility - TD Child (ages 3-5) | .70 | .84 | .84 |
| Ability to Testify in Court – TD Child (ages 6-11) | .69 | .78 | .85 |
| Suggestibility - TD Child (ages 6-11) | .69 | .75 | .83 |
| Ability to Testify - AWID | .72 | .87 | .89 |
| Suggestibility - AWID | .75 | .80 | .85 |
| Ability to Testify - TD Adult | .38 | .75 | .76 |
| Suggestibility - TD Adult | .76 | .82 | .84 |

*Note.* α = Cronbach’s Alpha; ω = Omega H = Coefficient H

# **3. Results**

## **3.1. Linear Mixed Model**

We fitted a linear mixed model (estimated using REML and nloptwrap optimizer) to predict value with target and cat (formula: value ~ target \* cat). The model included id as random effect (formula: ~1 | id). The model's total explanatory power is substantial (conditional R2 = 0.39) and the part related to the fixed effects alone (marginal R2) is of 0.27. The model's intercept, corresponding to target = td3 and cat = mem, is at 2.66 (95% CI [2.58, 2.75], t(9417) = 62.07, p < .001). Within this model:

- The effect of target [idchild] is statistically significant and positive (beta = 0.33, 95% CI [0.21, 0.44], t(9417) = 5.53, p < .001; Std. beta = 0.25, 95% CI [0.16, 0.34])

- The effect of target [td6] is statistically significant and positive (beta = 0.93, 95% CI [0.82, 1.04], t(9417) = 16.80, p < .001; Std. beta = 0.72, 95% CI [0.64, 0.81])

- The effect of target [idadult] is statistically significant and positive (beta = 1.01, 95% CI [0.90, 1.13], t(9417) = 16.96, p < .001; Std. beta = 0.79, 95% CI [0.70, 0.88])

- The effect of target [tdadult] is statistically significant and positive (beta = 2.58, 95% CI [2.47, 2.69], t(9417) = 46.70, p < .001; Std. beta = 2.00, 95% CI [1.92, 2.09])

- The effect of cat [sug] is statistically significant and positive (beta = 1.40, 95% CI [1.29, 1.50], t(9417) = 25.28, p < .001; Std. beta = 1.08, 95% CI [1.00, 1.17])

- The effect of cat [test] is statistically significant and positive (beta = 0.52, 95% CI [0.41, 0.63], t(9417) = 9.41, p < .001; Std. beta = 0.40, 95% CI [0.32, 0.49])

- The interaction effect of cat [sug] on target [idchild] is statistically significant and negative (beta = -0.32, 95% CI [-0.48, -0.16], t(9417) = -3.87, p < .001; Std. beta = -0.24, 95% CI [-0.37, -0.12])

- The interaction effect of cat [sug] on target [td6] is statistically significant and negative (beta = -0.97, 95% CI [-1.12, -0.82], t(9417) = -12.45, p < .001; Std. beta = -0.75, 95% CI [-0.87, -0.63])

- The interaction effect of cat [sug] on target [idadult] is statistically significant and negative (beta = -1.37, 95% CI [-1.53, -1.20], t(9417) = -16.60, p < .001; Std. beta = -1.06, 95% CI [-1.19, -0.94])

- The interaction effect of cat [sug] on target [tdadult] is statistically significant and negative (beta = -3.56, 95% CI [-3.72, -3.41], t(9417) = -45.87, p < .001; Std. beta = -2.77, 95% CI [-2.89, -2.65])

- The interaction effect of cat [test] on target [idchild] is statistically non-significant and negative (beta = -0.10, 95% CI [-0.26, 0.06], t(9417) = -1.28, p = 0.202; Std. beta = -0.08, 95% CI [-0.20, 0.04])

- The interaction effect of cat [test] on target [td6] is statistically significant and negative (beta = -0.29, 95% CI [-0.44, -0.14], t(9417) = -3.74, p < .001; Std. beta = -0.23, 95% CI [-0.34, -0.11])

- The interaction effect of cat [test] on target [idadult] is statistically significant and negative (beta = -0.36, 95% CI [-0.52, -0.20], t(9417) = -4.36, p < .001; Std. beta = -0.28, 95% CI [-0.40, -0.15])

- The interaction effect of cat [test] on target [tdadult] is statistically significant and negative (beta = -0.85, 95% CI [-1.00, -0.70], t(9417) = -10.92, p < .001; Std. beta = -0.66, 95% CI [-0.78, -0.54])

Standardized parameters were obtained by fitting the model on a standardized version of the dataset. 95% Confidence Intervals (CIs) and p-values were computed using the Wald approximation.

Figure 1.

Chart, scatter chart

Description automatically generated

## **3.2. Post Hoc**

The data contains 105 observations of the following variables:

- contrast: 105 entries, such as idadult mem - idadult sug (0.95%%); idadult mem - idadult test (0.95%%); idadult mem - idchild sug (0.95%%) and 102 others (0 missing)

- estimate: n = 105, Mean = -0.24, SD = 0.94, Median = -0.23, MAD = 0.91, range: [-2.58, 2.17], Skewness = 0.11, Kurtosis = 2.51e-03, 0% missing

- p.value: n = 105, Mean = 0.11, SD = 0.29, Median = 0.00, MAD = 0.00, range: [0, 1], Skewness = 2.55, Kurtosis = 4.86, 0% missing

## **3.3. Exploratory Analyses**

Figure 2.

Chart

Description automatically generated

Statistical analysis were carried out using R 1.4.1106 (R Core Team, 2021), the rstanarm (v2.13.1; Gabry & Goodrich, 2016) and the report (v0.2.0; Makowski, Patil, & Lüdecke, 2019) packages.

The full reproducible code is available in **Supplementary Materials**.

# **Supplementary Materials**

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