

R Standardized Reliability Analysis

Test: R Standardized Reliability Analysis

Design: Correlation–matrix reliability workflow for the six transformed items.

Variables: famrel, freetime, goout, Dalc_R, Walc_R, health

Null hypothesis: The mean inter–item correlation and standardized alpha are zero.

Formula: $\alpha_{std} = k \bar{r} / [1 + (k-1)\bar{r}]$.

Source rows: 649

Calculated metrics:

standardized_alpha: 0.168909570161064

mean_inter_item_r: 0.0327632892853925

items: 6

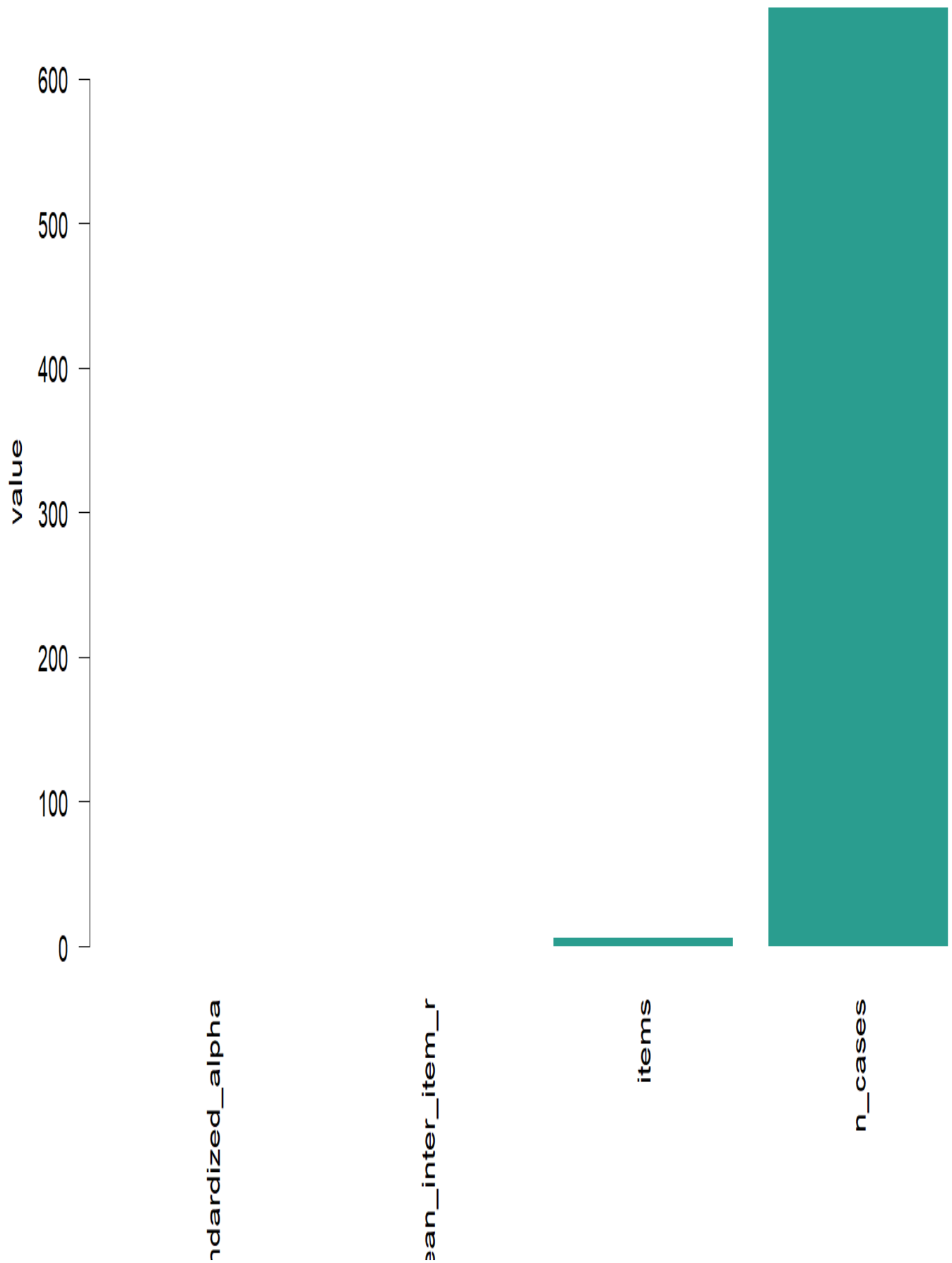
n_cases: 649

Interpretation:

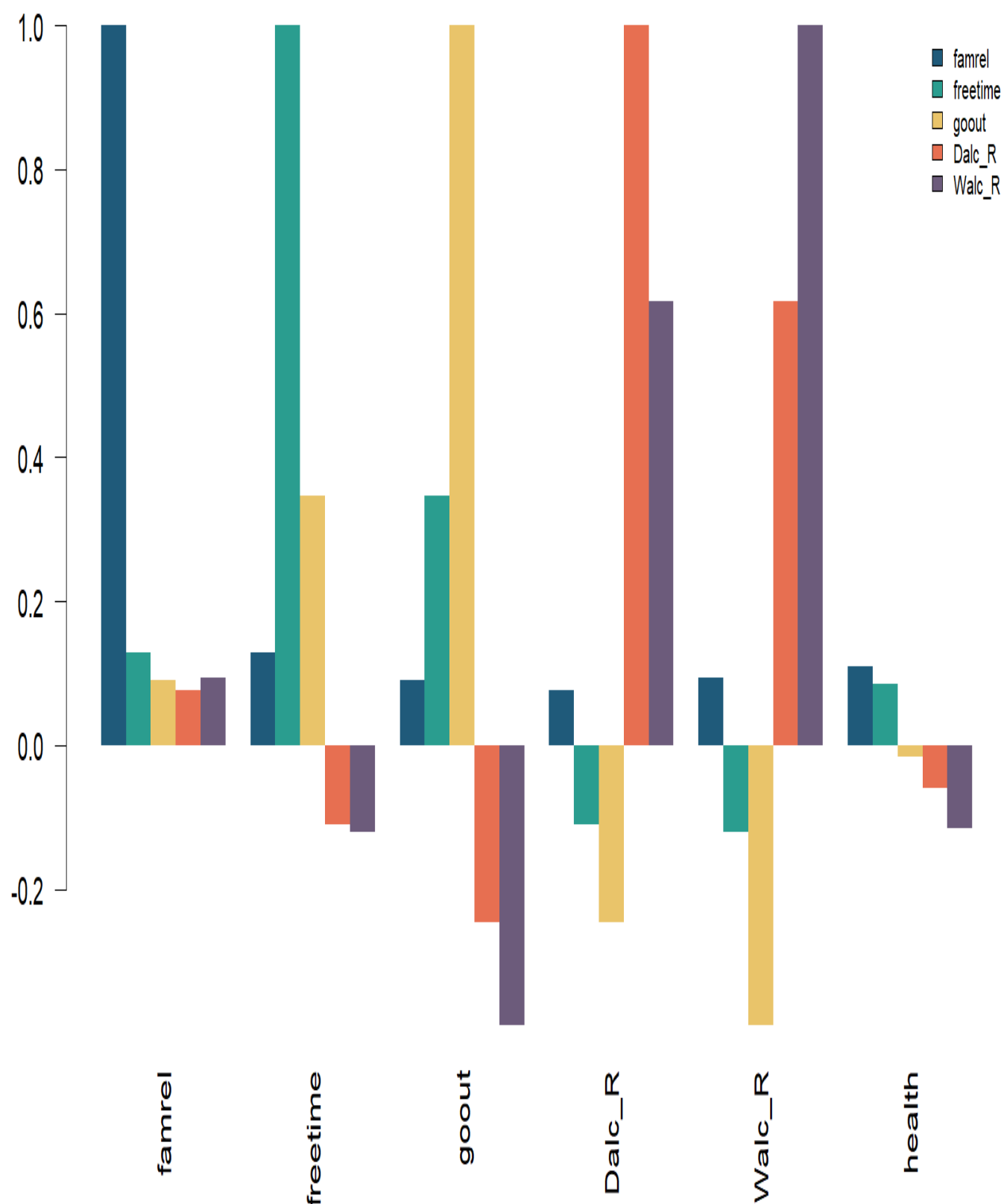
Correlation standardization removes raw item–variance differences.

Standardized alpha 0.168909570161064 mean r 0.0327632892853925

R Standardized Reliability Analysis - primary metrics



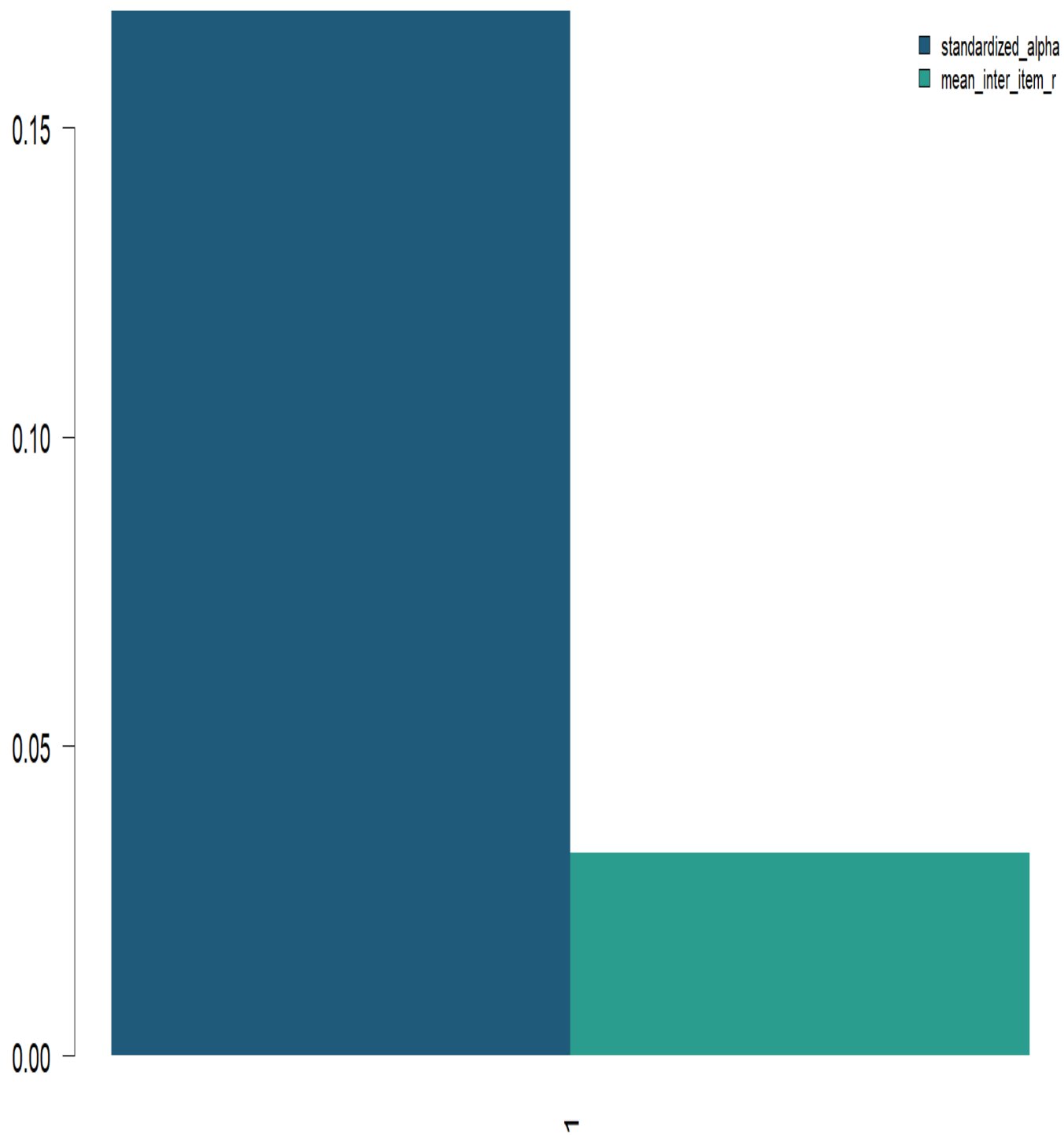
R Standardized Reliability Analysis - standardized correlation matrix



R Standardized Reliability Analysis - inter item correlations



R Standardized Reliability Analysis - standardized alpha result



R Standardized Reliability Analysis verified results

