

Item–Total Correlation

Test: Item–Total Correlation

Design: Each transformed item correlated with the full six–item total that includes that item.

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

Null hypothesis: An item has zero linear association with the full composite score.

Formula: $r_{i,\text{total}} = \text{cor}(X_i, \sum_j X_j)$.

Source rows: 649

Calculated metrics:

mean_item_total_r: 0.436856224455792

minimum_item_total_r: 0.295281303932179

maximum_item_total_r: 0.520485089194543

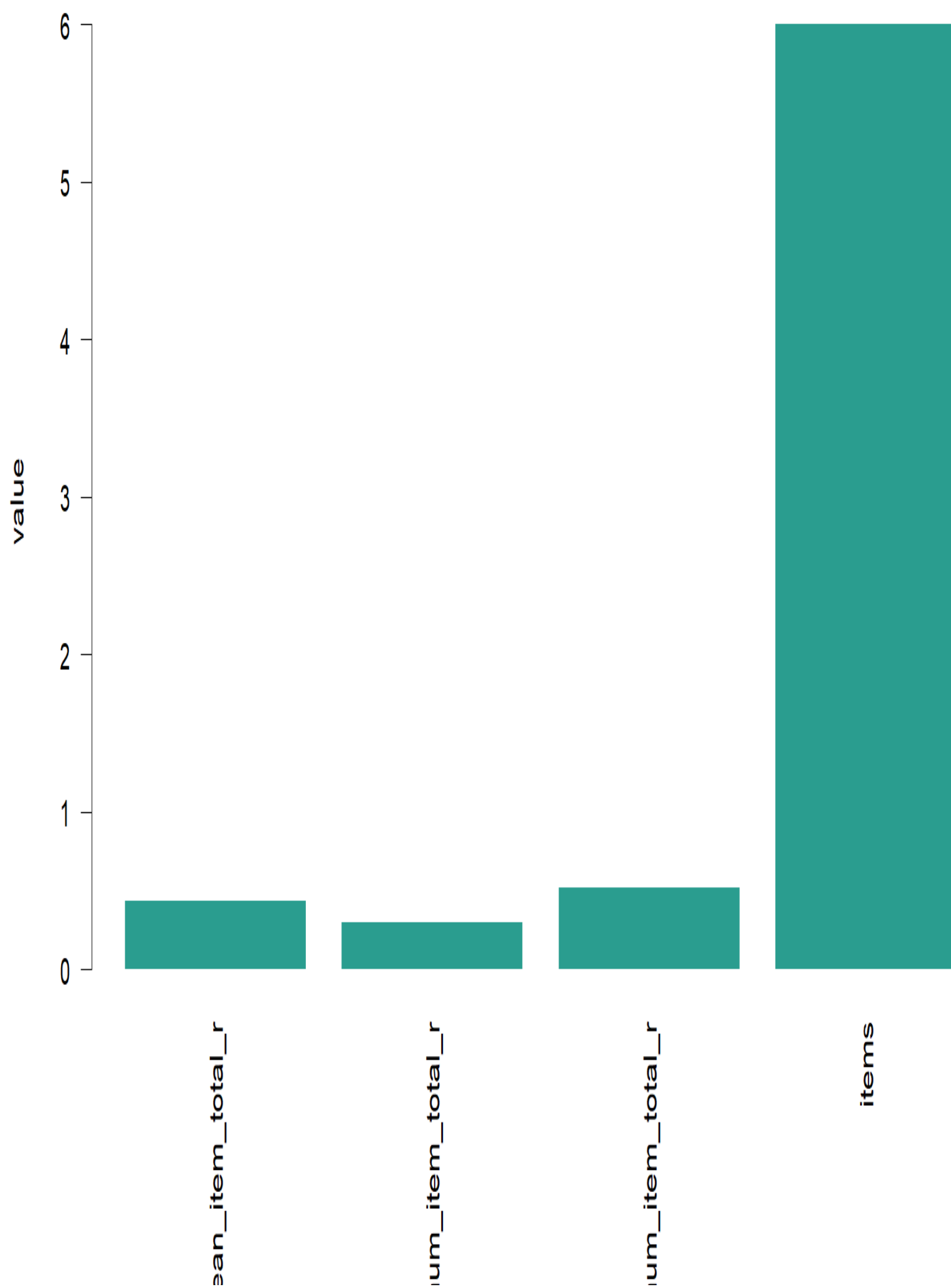
items: 6

Interpretation:

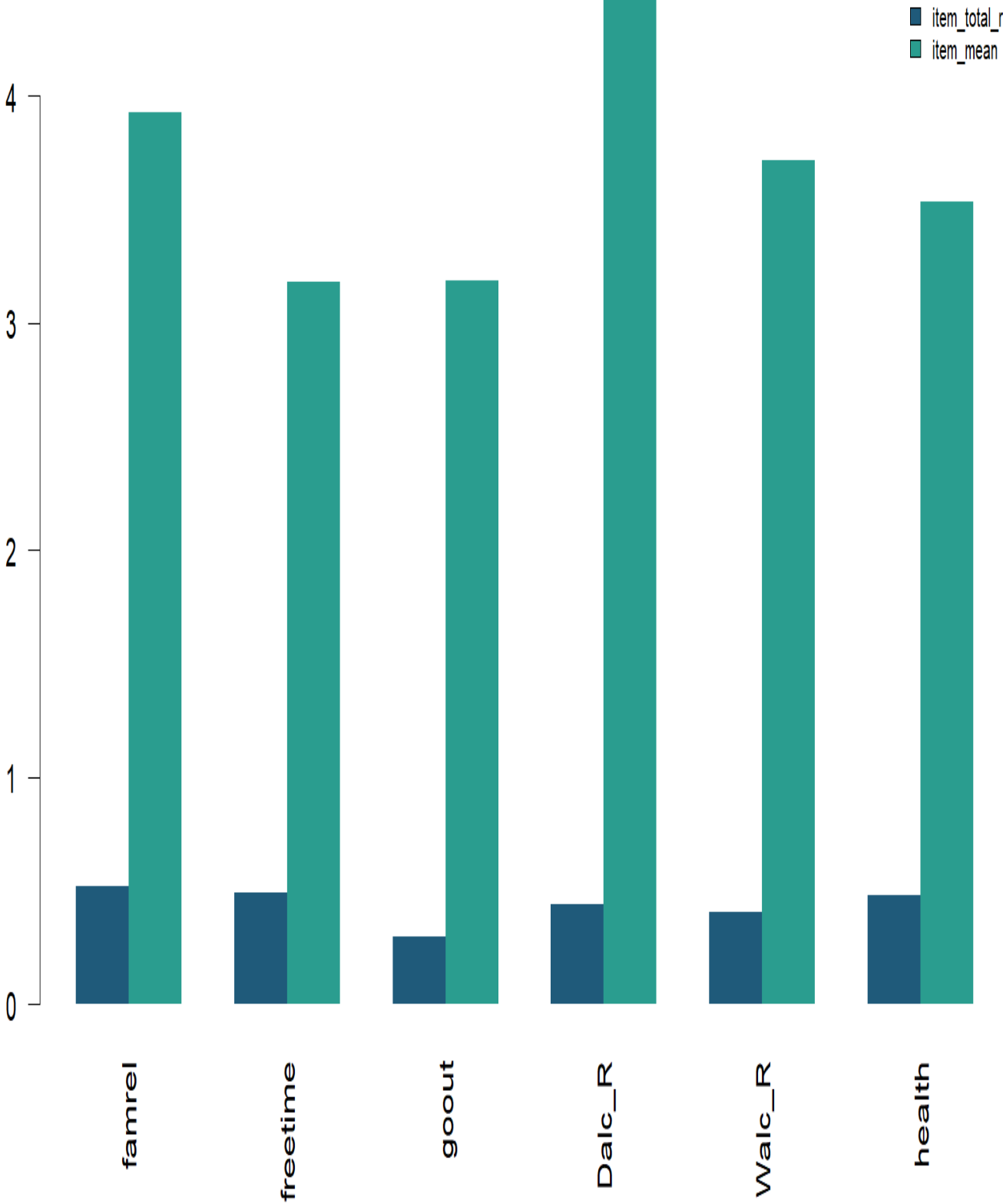
Each item remains in the full total, preserving the intended part–whole correlation.

Mean item–total correlation 0.436856224455792

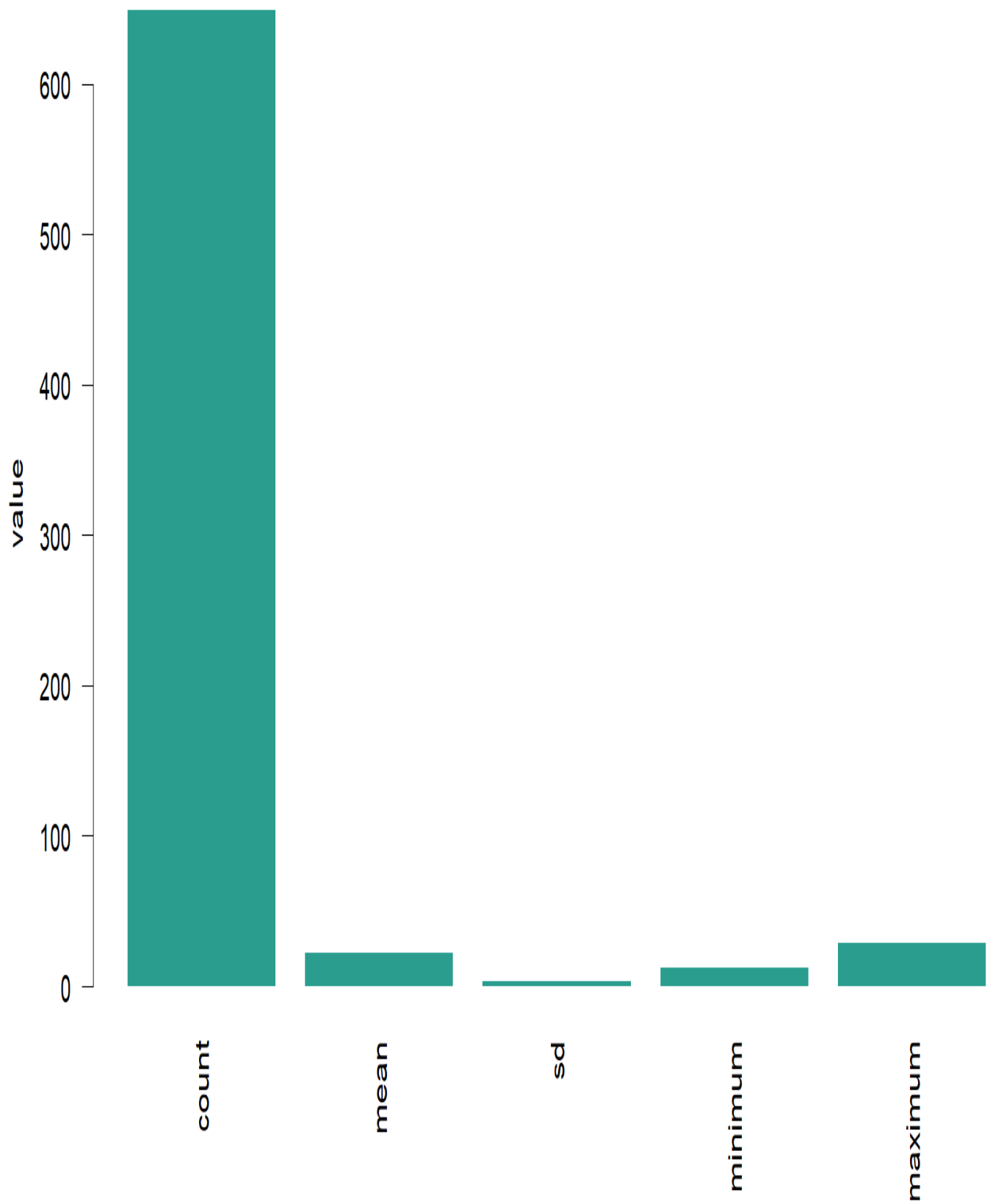
Item-Total Correlation - primary metrics



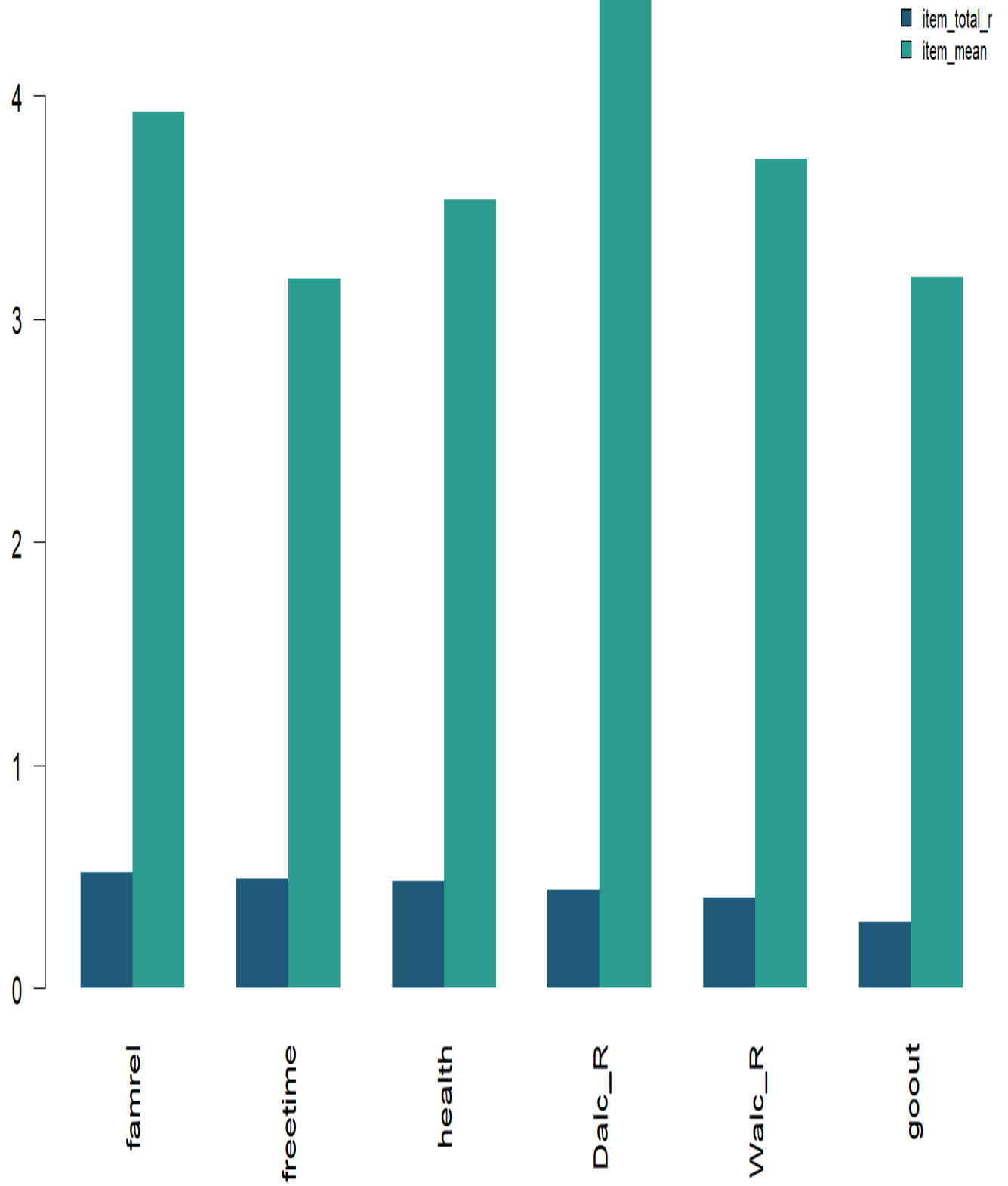
Item-Total Correlation - item total results



Item-Total Correlation - full total summary



Item-Total Correlation - item total ranking



Item-Total Correlation verified results

