

Guttman's Lambda-6

Test: Guttman's Lambda-6

Design: Regression-error lower-bound reliability for the six-item transformed scale.

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

Null hypothesis: The composite's reliable variance is no larger than the variance predicted among items.

Formula: $\lambda_6 = 1 - \frac{\sum s_i^2(1 - R_i^2)}{s_{\text{total}}^2}$.

Source rows: 649

Calculated metrics:

λ_6 : 0.288772126022127

items: 6

n_cases: 649

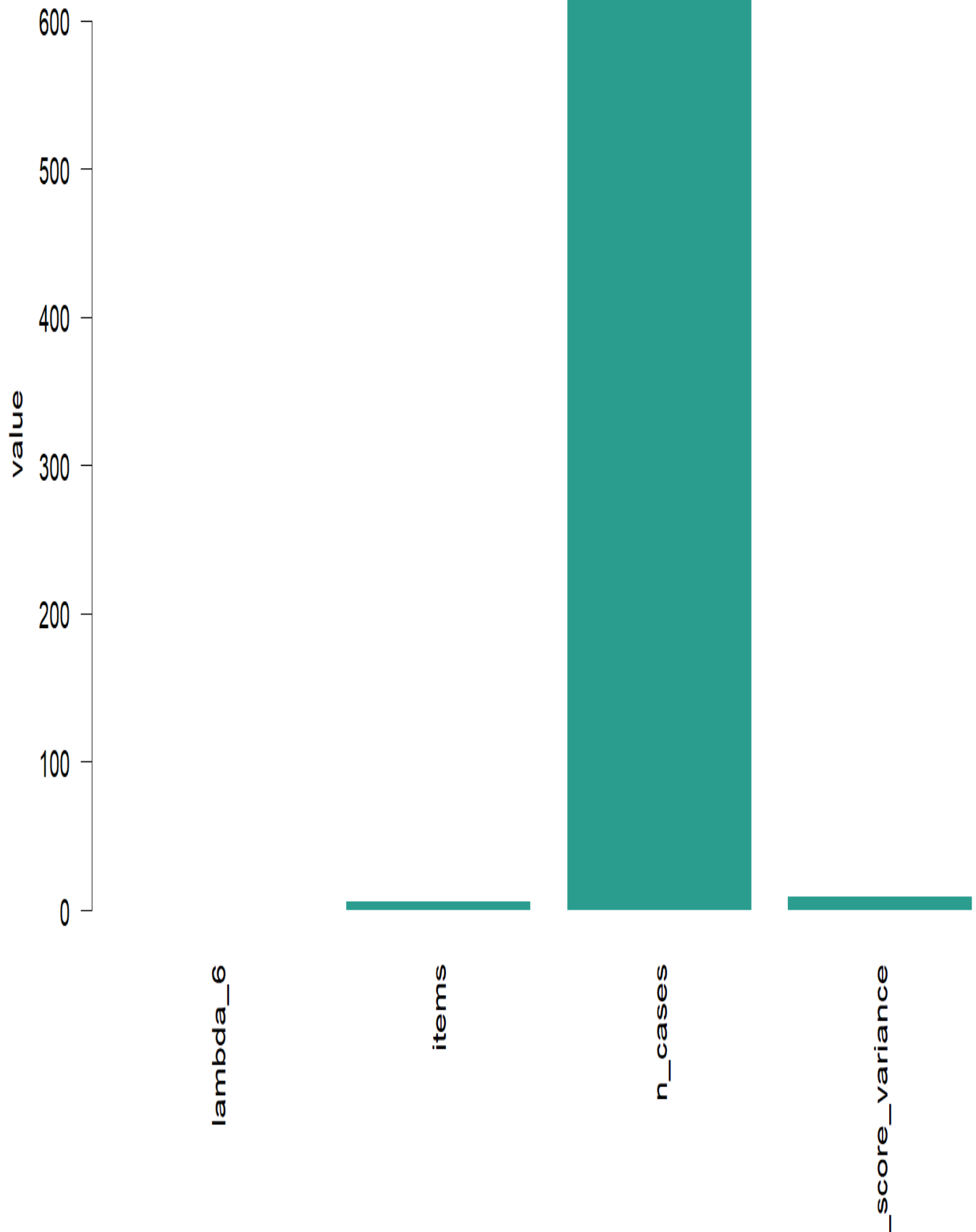
total_score_variance: 8.81855275923072

Interpretation:

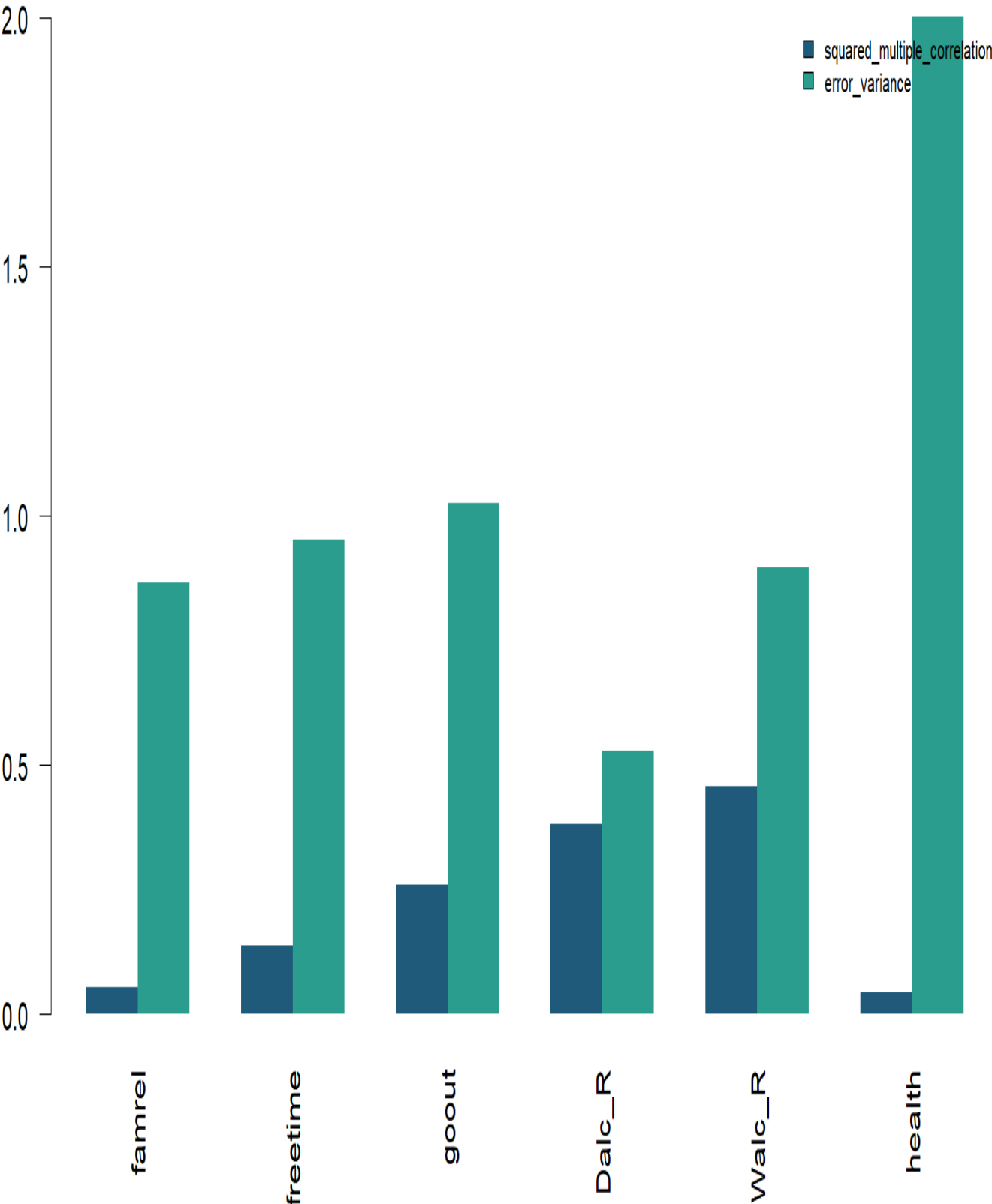
Each item is regressed on every other item before residual variance is summed.

Lambda-6 0.288772126022127

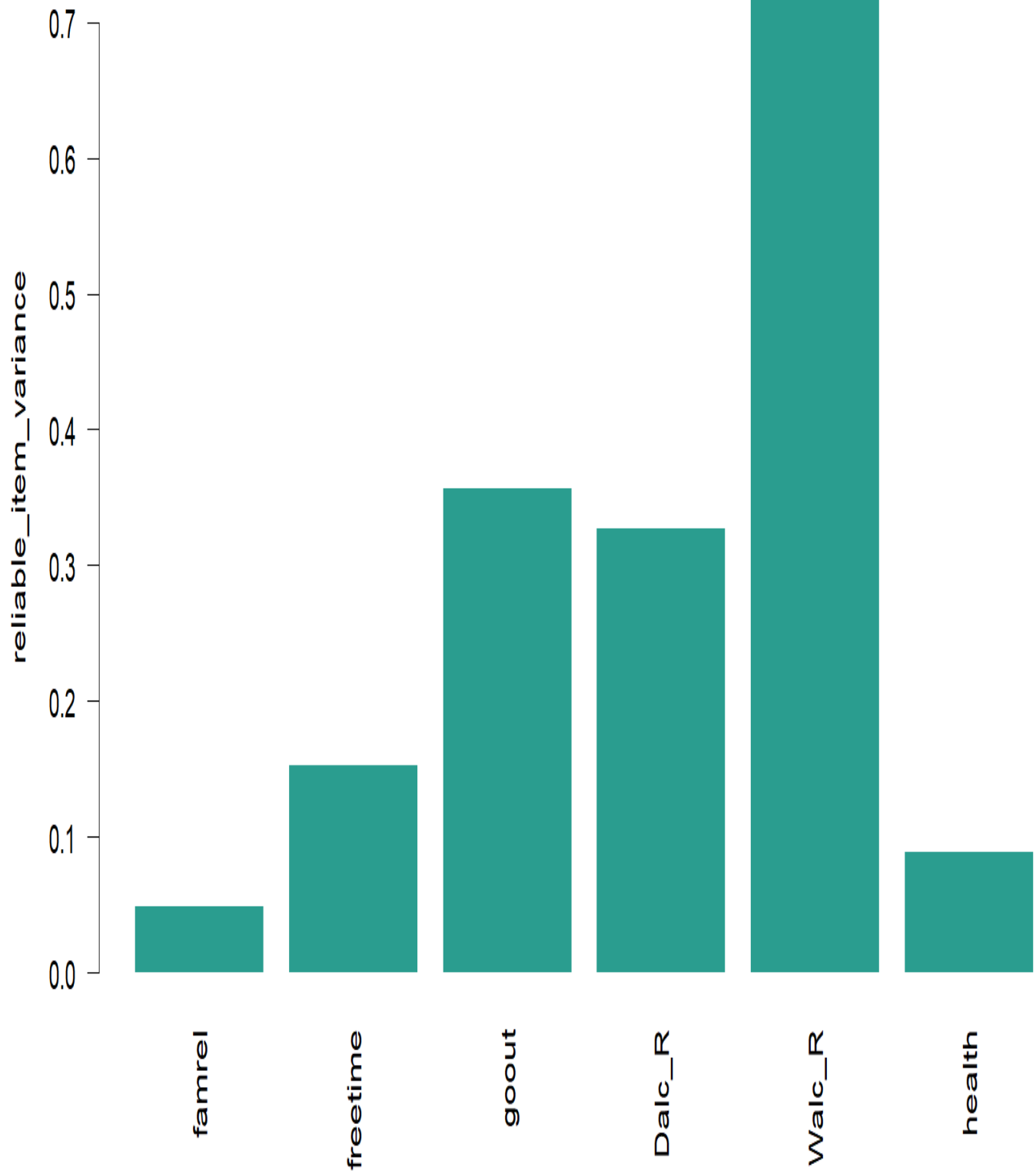
Guttman's Lambda-6 - primary metrics



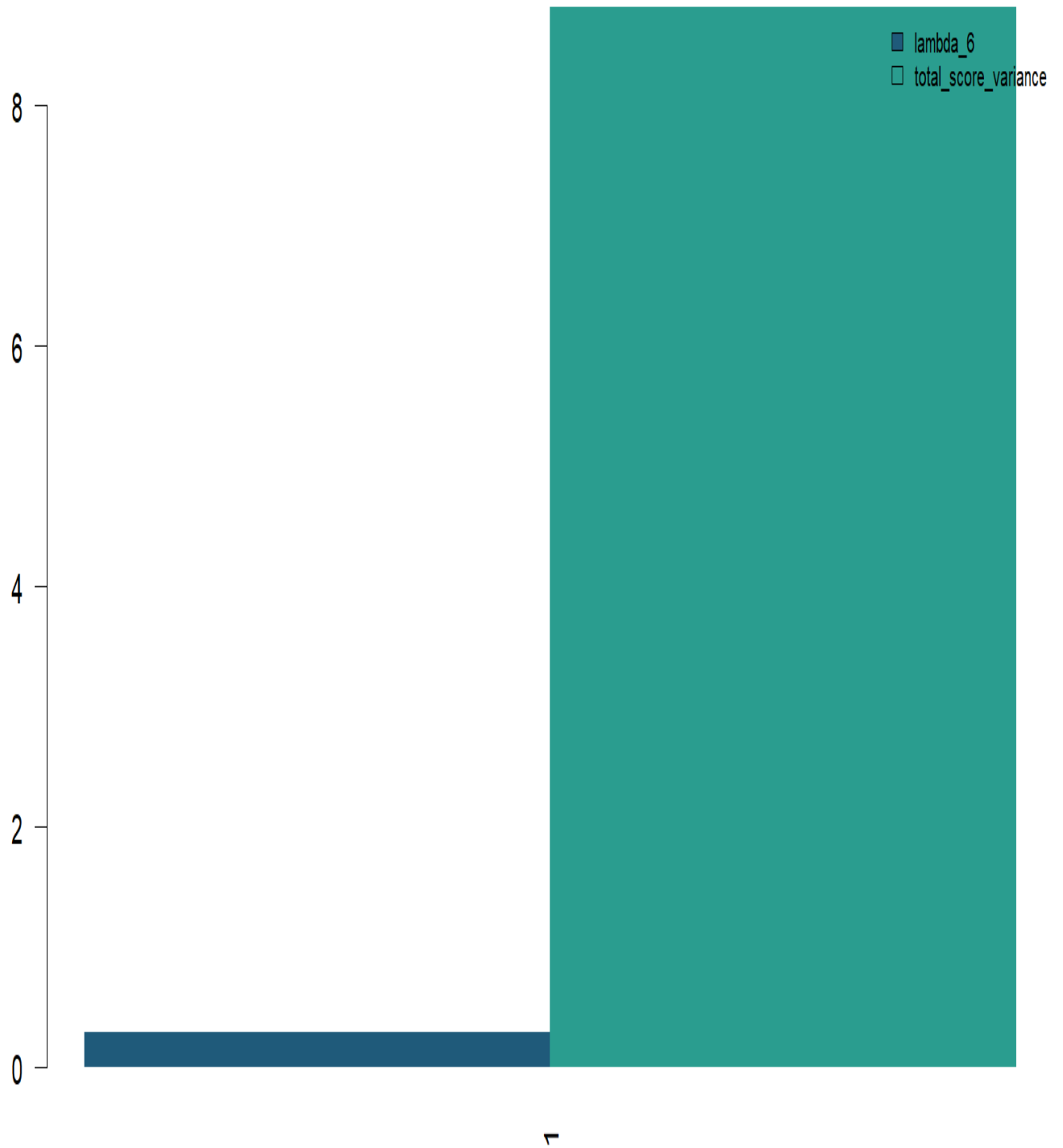
Guttman's Lambda-6 - lambda6 item components



Guttman's Lambda-6 - predicted item variance



Guttman's Lambda-6 - lambda6 result



Guttman's Lambda-6 verified results

