

Kruskal–Wallis Rank–Sum Test

Test: Kruskal–Wallis Rank–Sum Test

Design: Independent final–grade comparison across three guardian categories.

Variables: G3, guardian

Null hypothesis: All guardian groups have the same final–grade distribution.

Formula: $H = \frac{[12/(N(N+1))] \sum_i R_i^2/n_i - 3(N+1)}{\text{divided by the tie correction.}}$

Source rows: 649

Calculated metrics:

statistic: 8.01773959161415

p_value: 0.0181539012619447

degrees_of_freedom: 2

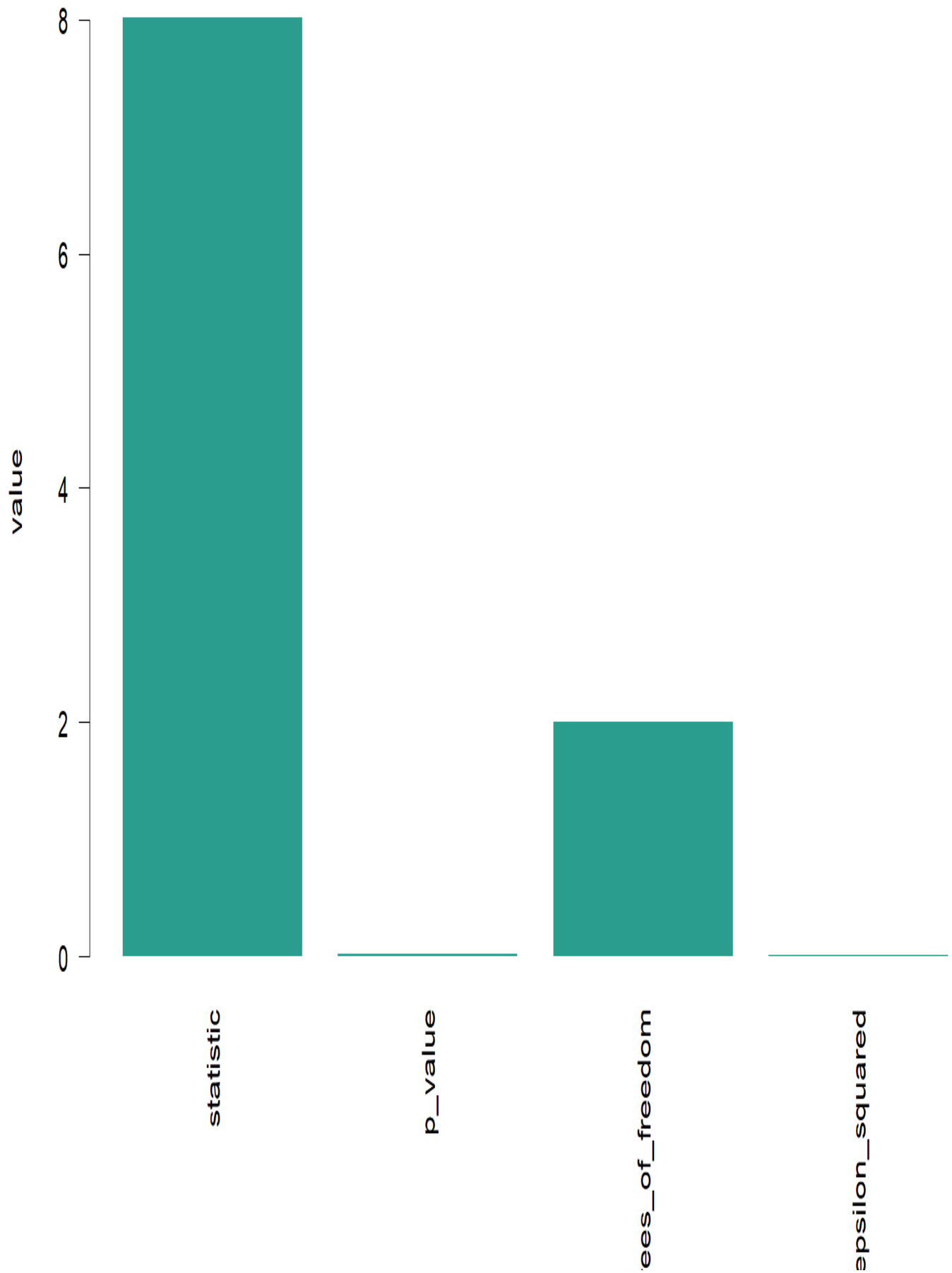
epsilon_squared: 0.00931538636472778

Interpretation:

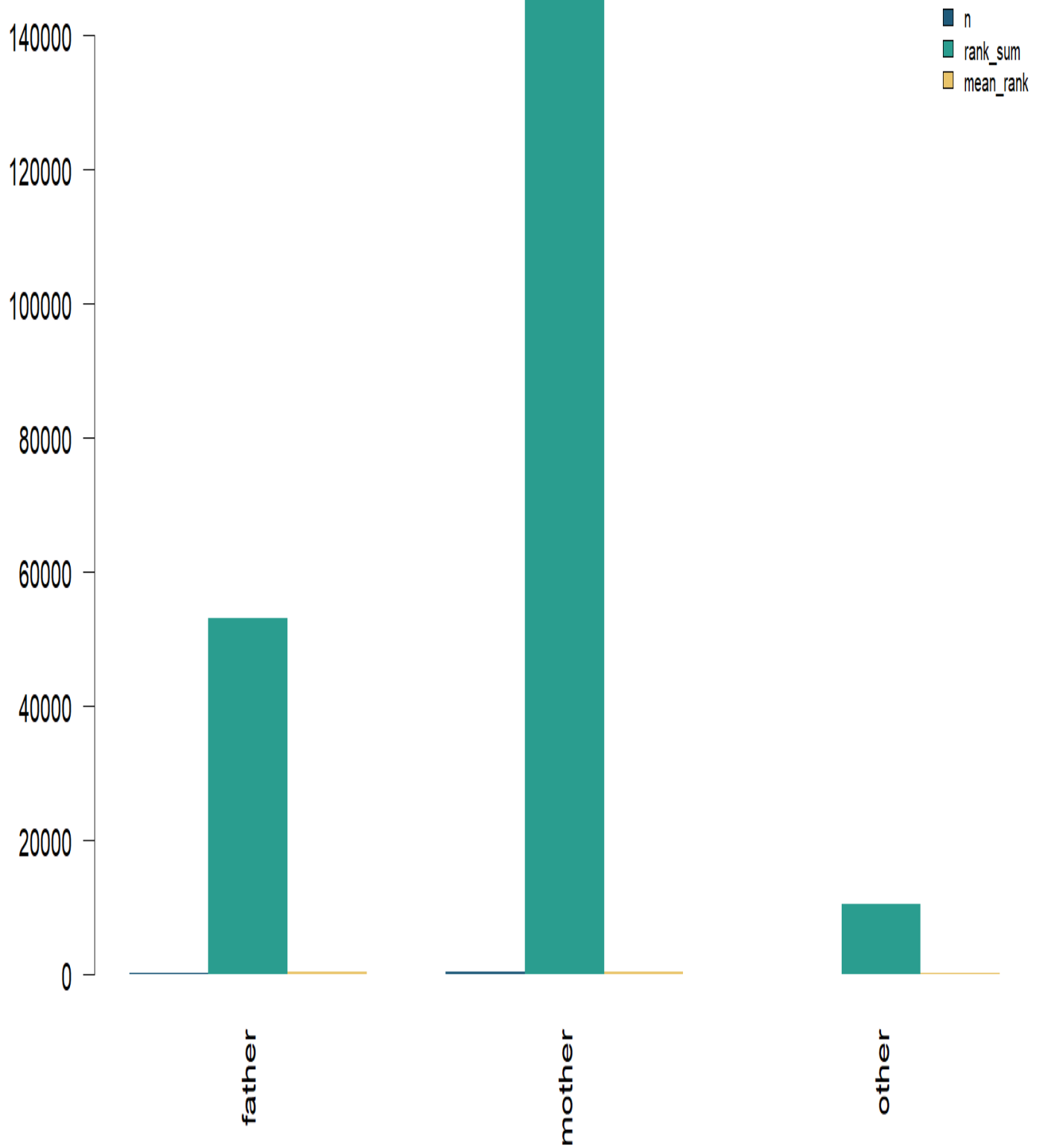
All guardian observations are pooled and midranked.

Kruskal–Wallis p = 0.0181539012619447

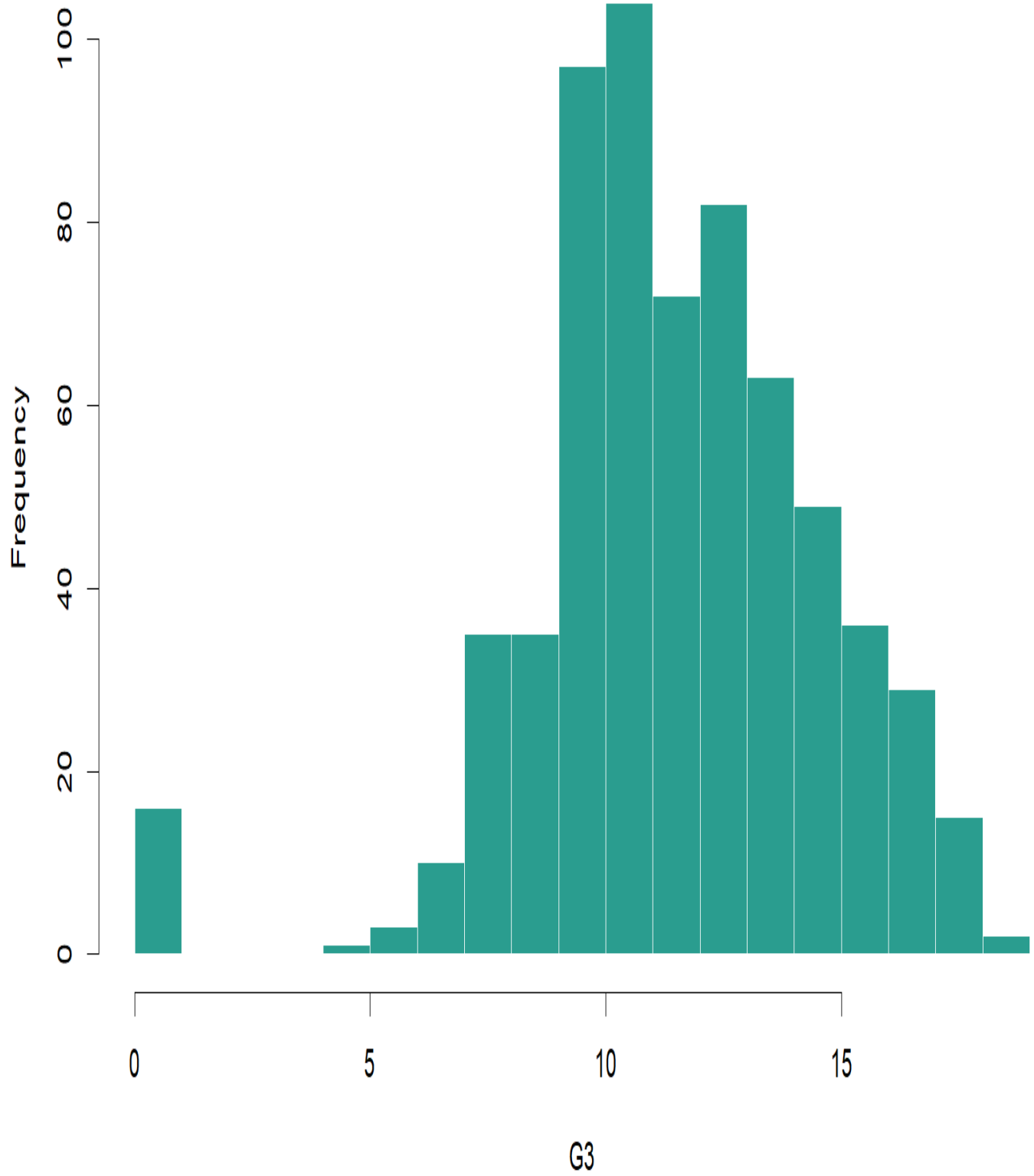
Kruskal-Wallis Rank-Sum Test - primary metrics



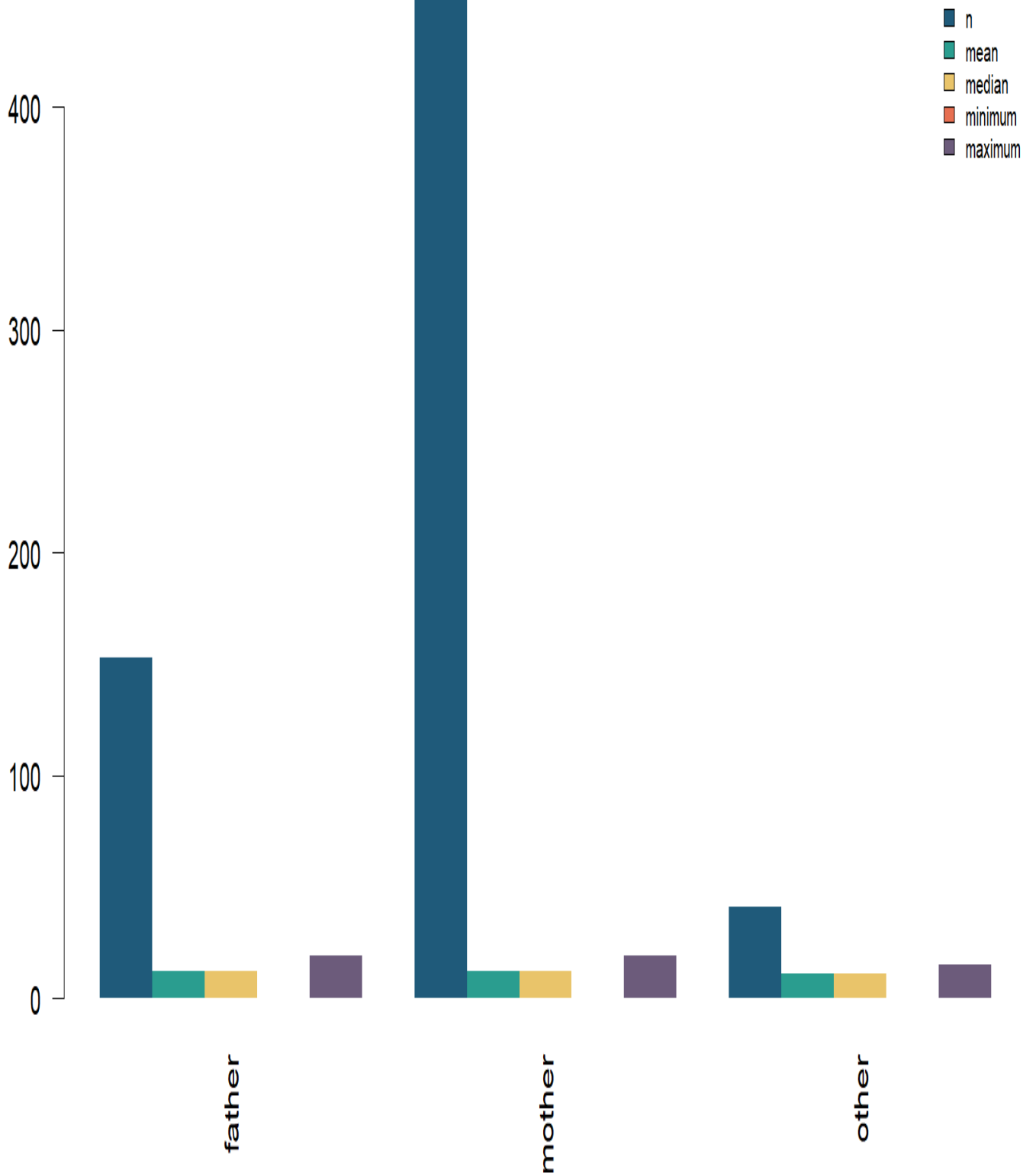
Kruskal-Wallis Rank-Sum Test - guardian rank summary



Kruskal-Wallis Rank-Sum Test - ranked observations



Kruskal-Wallis Rank-Sum Test - guardian grade summary



Kruskal-Wallis Rank-Sum Test verified results

