

Wilcoxon Rank-Sum Test

Test: Wilcoxon Rank-Sum Test

Design: Independent-sample rank-sum comparison of G1 between GP and MS schools.

Variables: G1, school

Null hypothesis: The two school distributions have equal location under common shape.

Formula: W_{GP} =sum of pooled midranks; $U=W_{GP}-n_{GP}(n_{GP}+1)/2$

Source rows: 649

Calculated metrics:

gp_rank_sum: 154877

u_equivalent: 65201

p_value: 1.4210854715202e-14

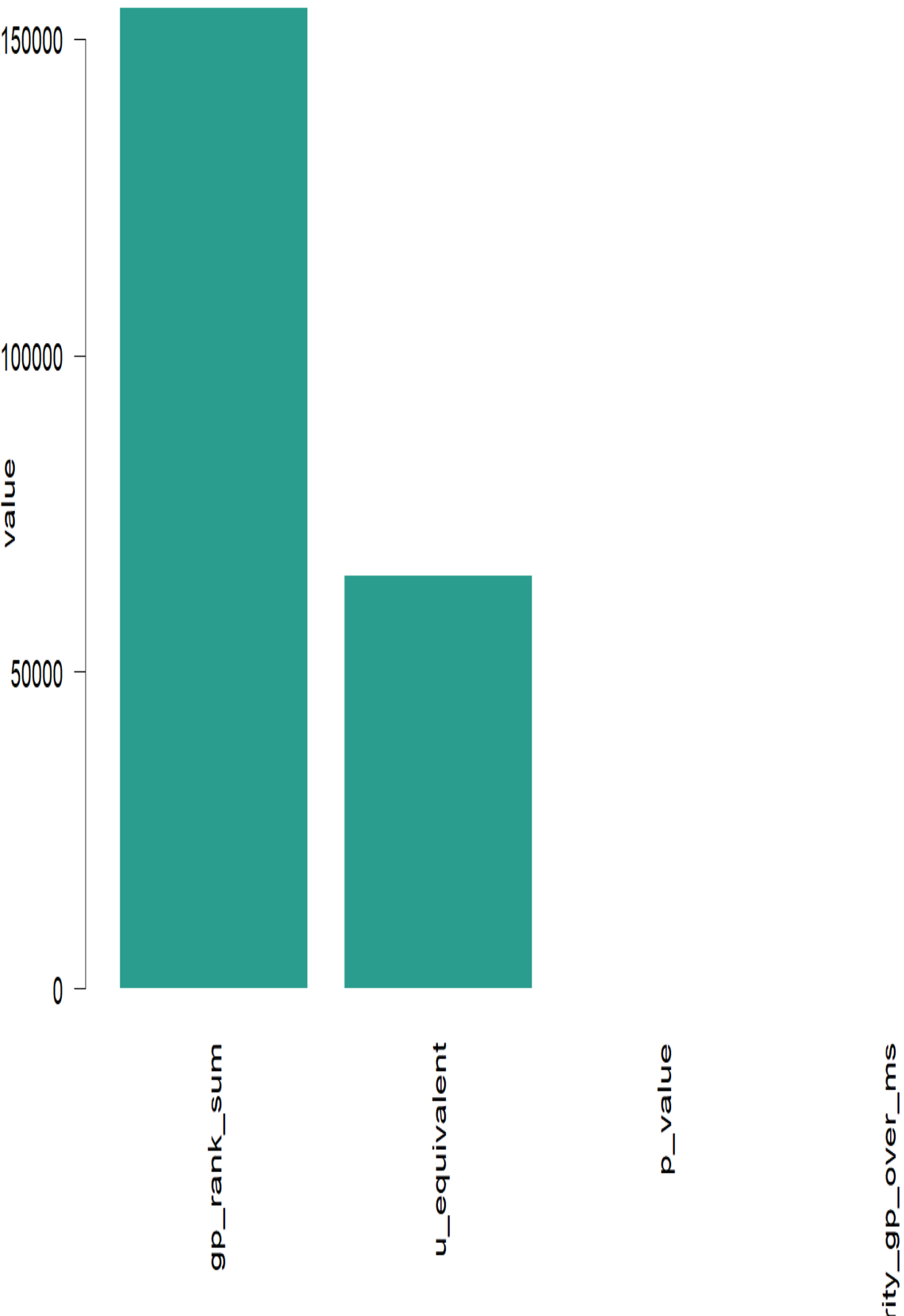
probability_superiority_gp_over_ms: 0.682033096926714

Interpretation:

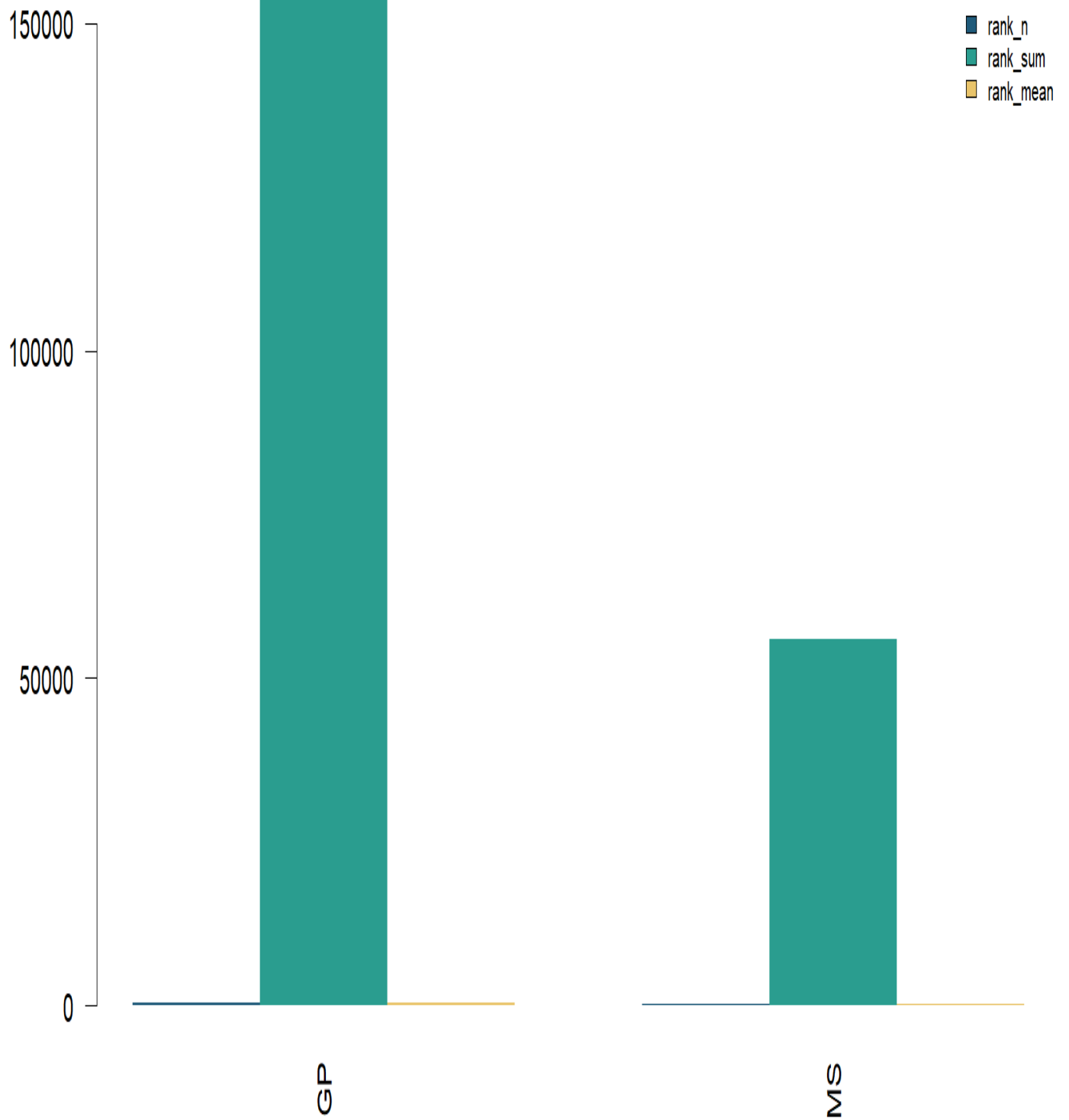
W and U are shown through their exact algebraic identity.

p = 1.4210854715202e-14

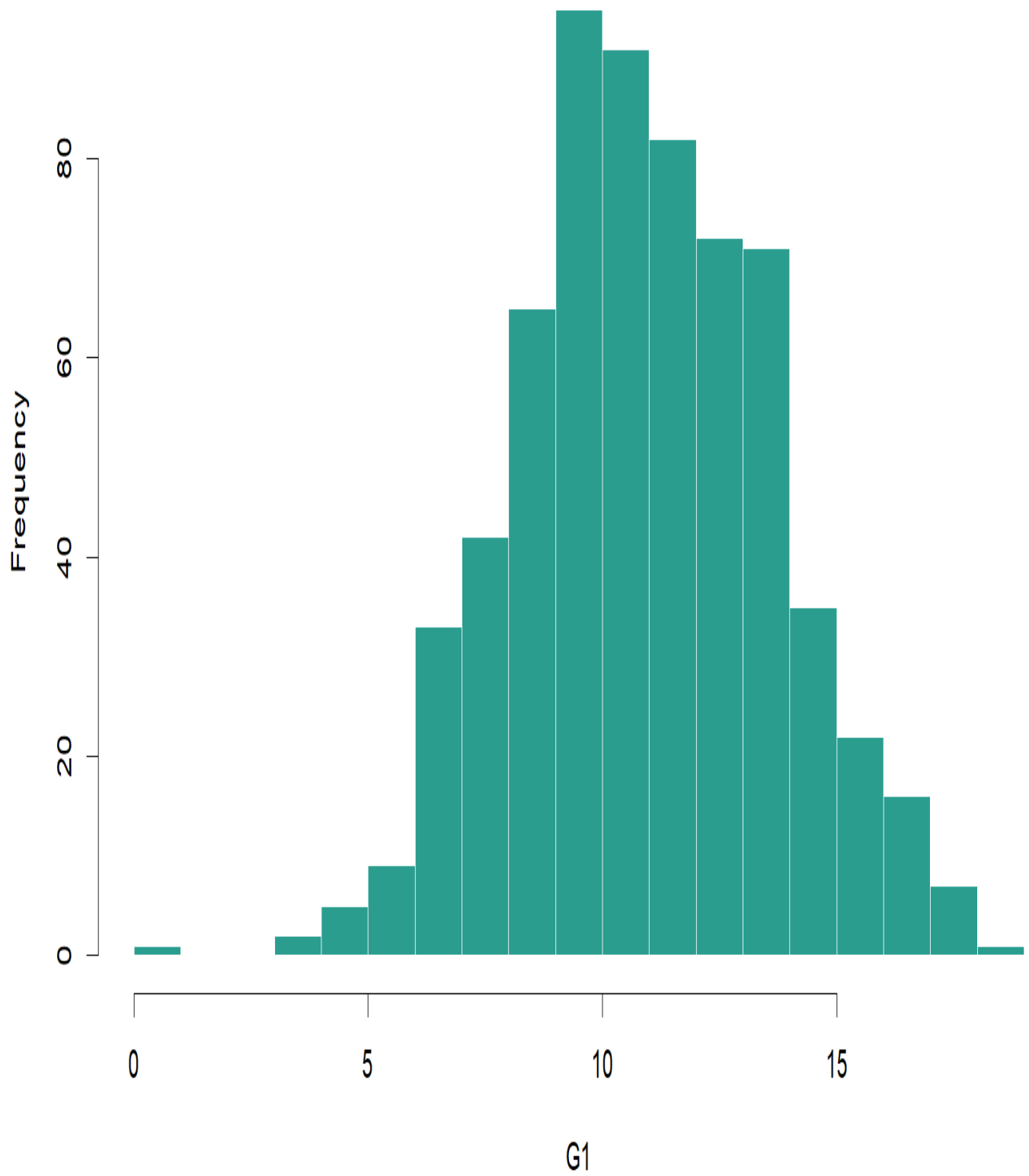
Wilcoxon Rank-Sum Test - primary metrics



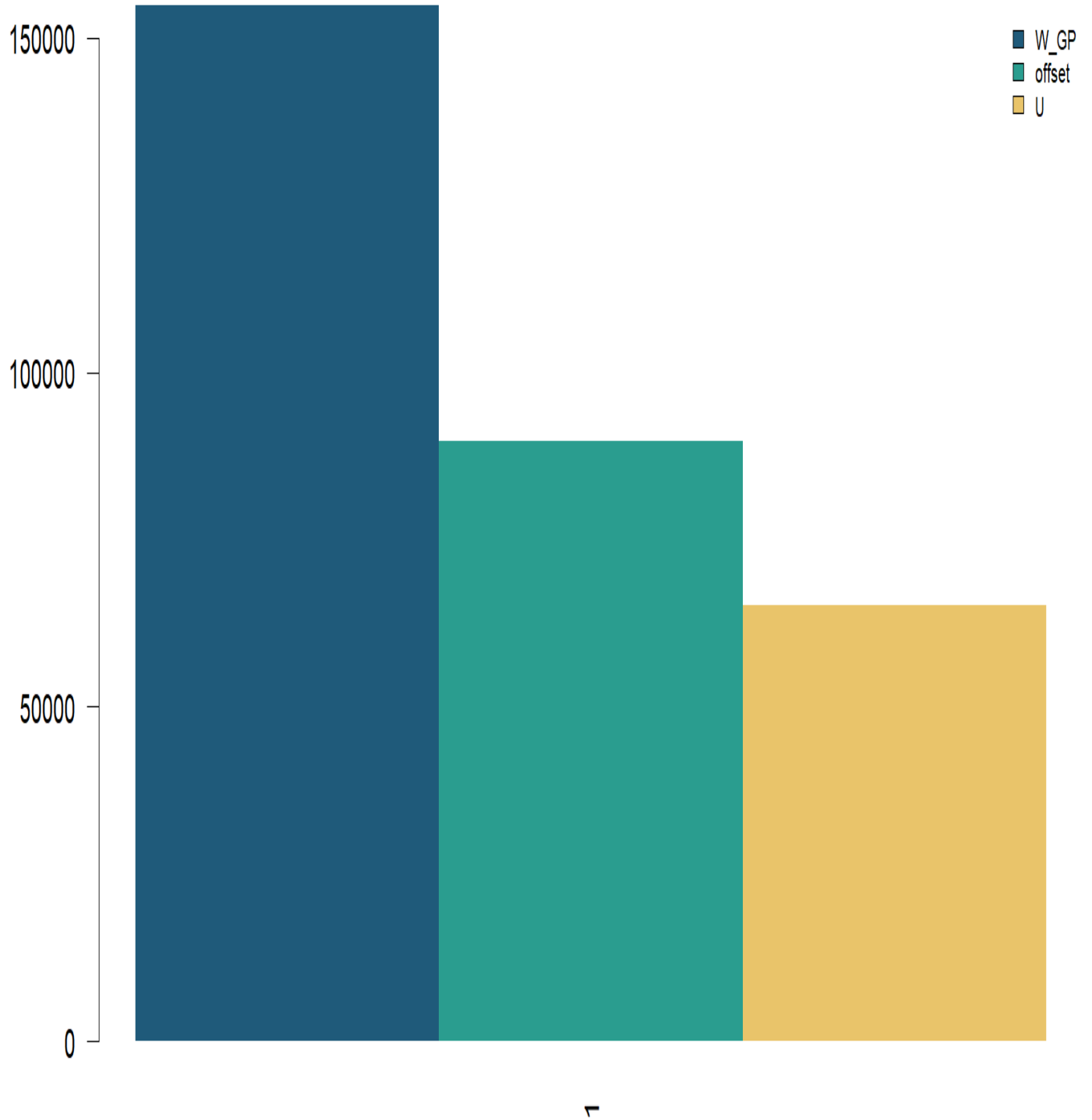
Wilcoxon Rank-Sum Test - school rank summary



Wilcoxon Rank-Sum Test - ranked observations



Wilcoxon Rank-Sum Test - rank sum identity



Wilcoxon Rank-Sum Test verified results

bility_superiority_gp_over_ms

p_value

u_equivalent

gp_rank_sum

