Kruskal Wallis Test for Likert Data

Method: Kruskal Wallis Test for Likert Data

Method type: hypothesis_test

Design: Independent−group comparison of the ordered family−relationship response across maternal−job categories.

Variables: Mjob, famrel

Inference scope: H0: all maternal−job groups have the same family−relationship response distribution.

Formula: H=[12/(N*(N+1))]*sum(R_j^2/n_j)−3*(N+1), with tie correction; epsilon^2=(H−k+1)/(N−k).

Source rows: 649

Calculated metrics:

kruskal_wallis_h: 2.32725864462954

df: 4

p_value: 0.675810701964743

epsilon_squared: 0

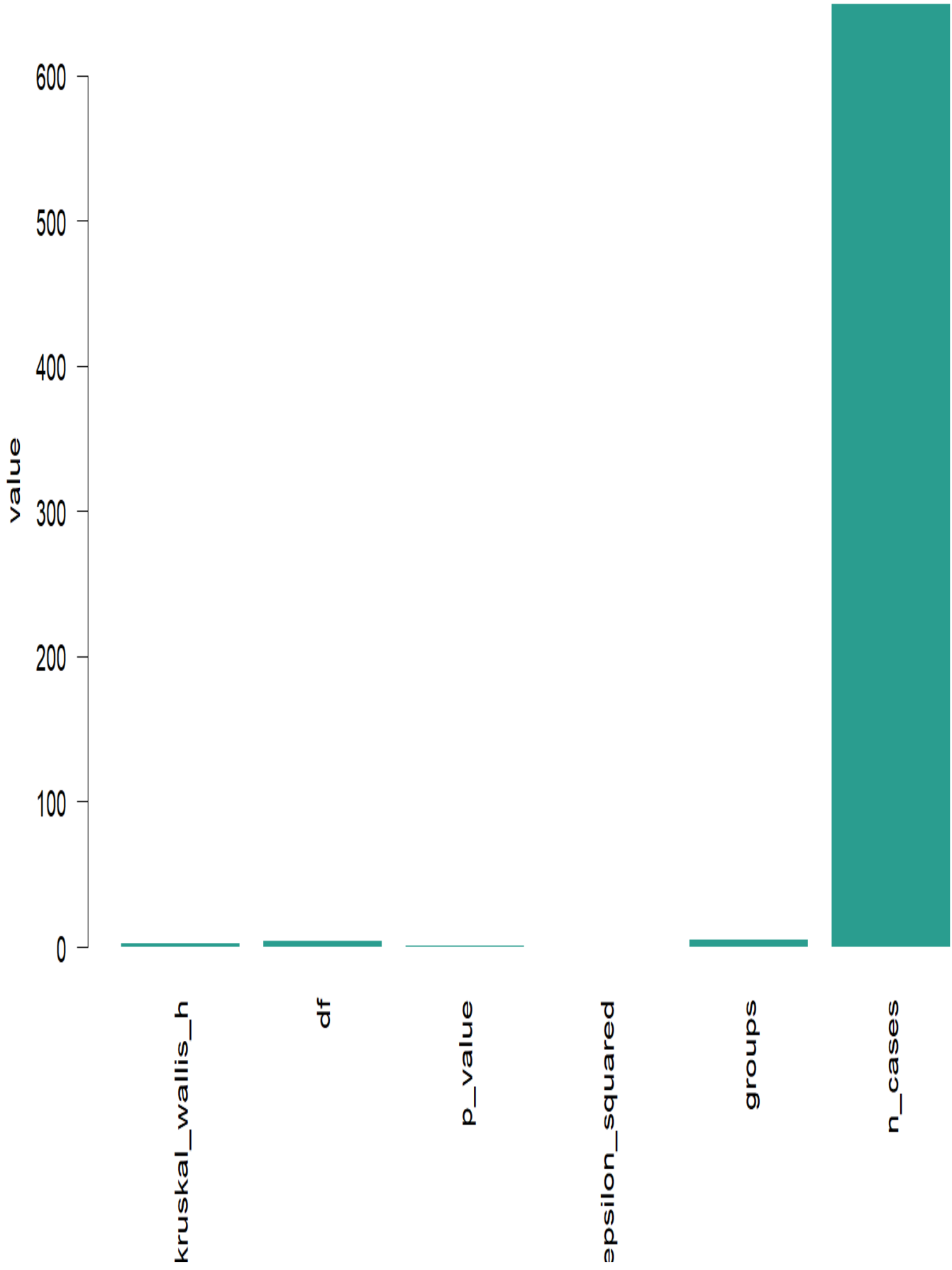
groups: 5

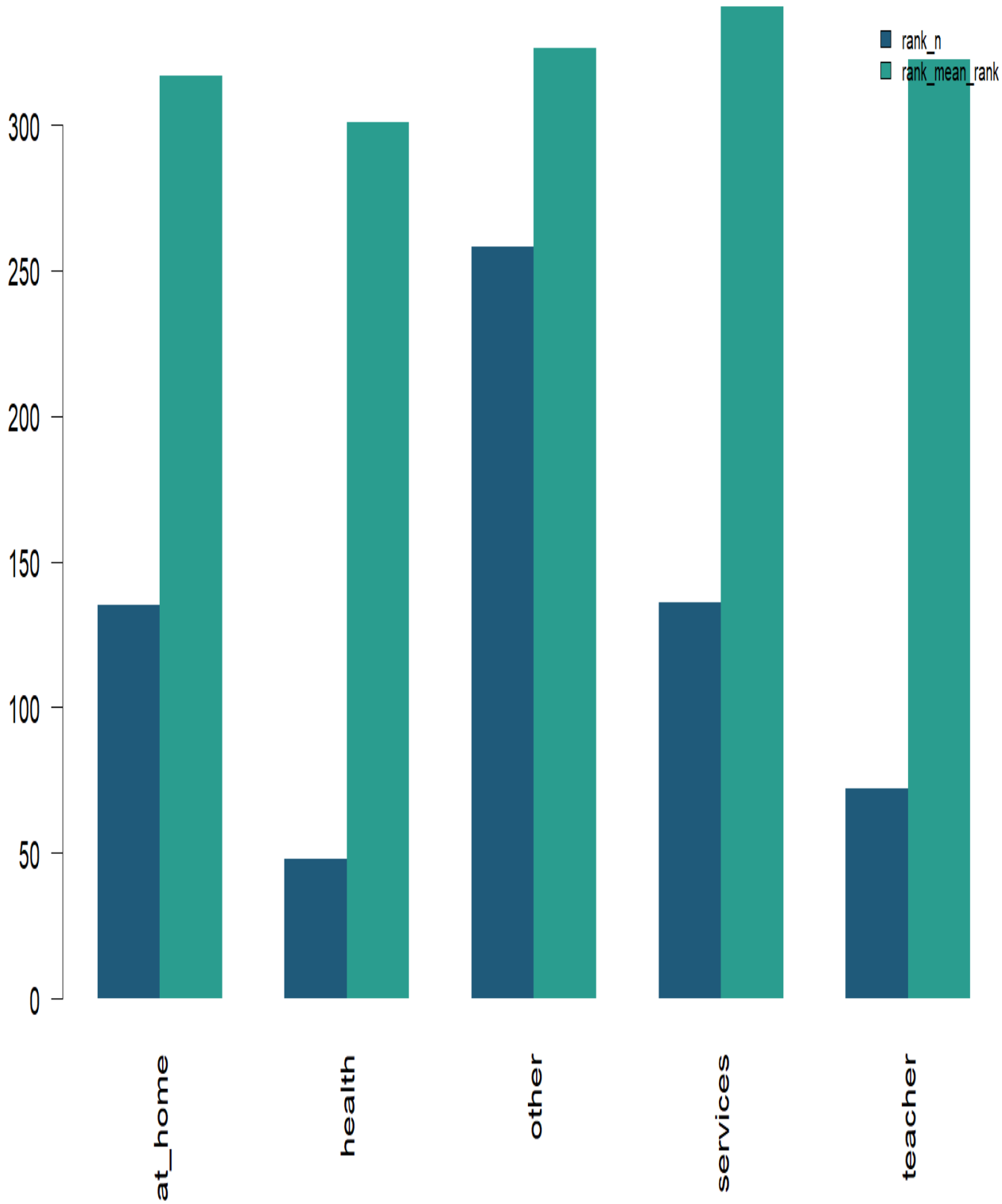
n_cases: 649

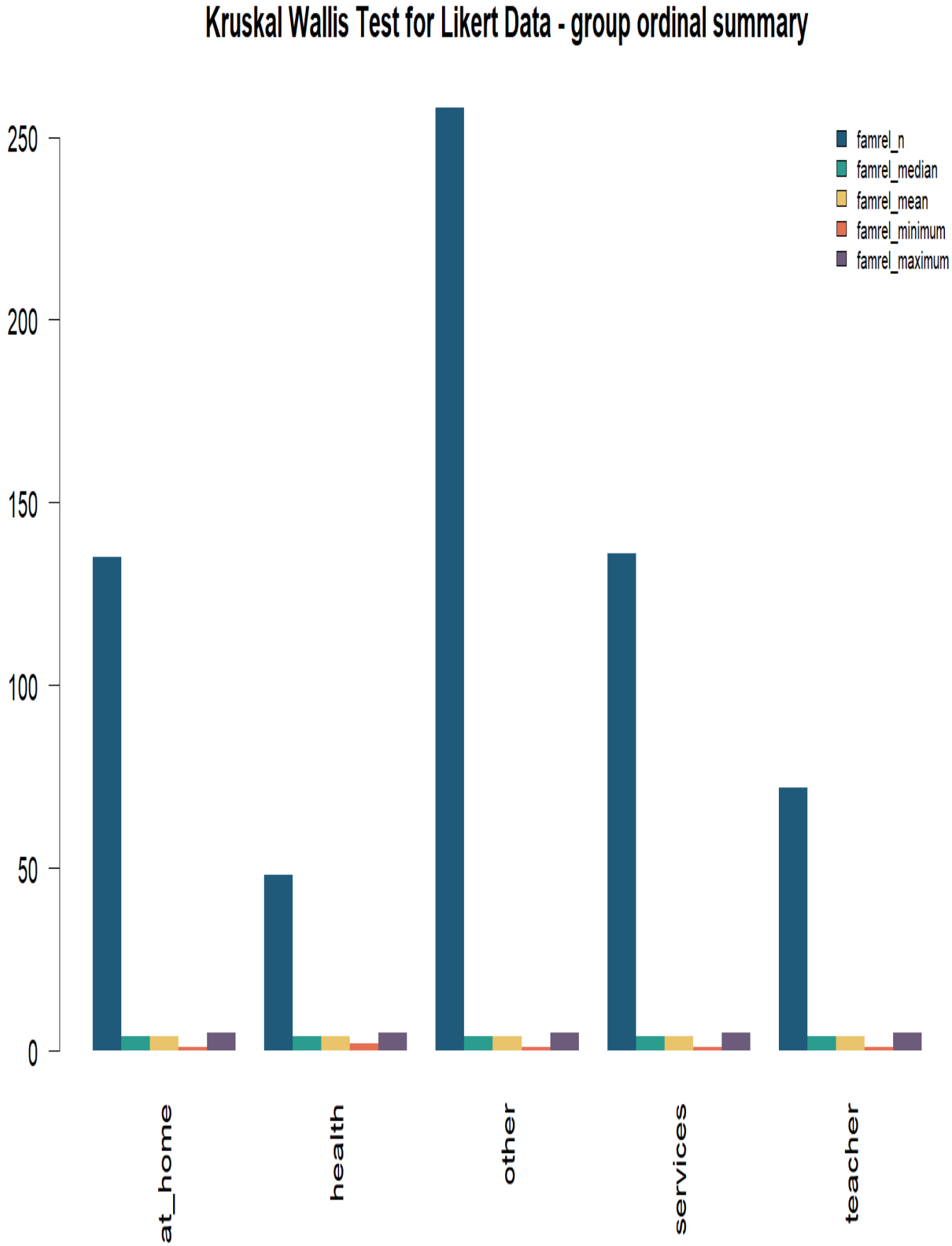
Interpretation:

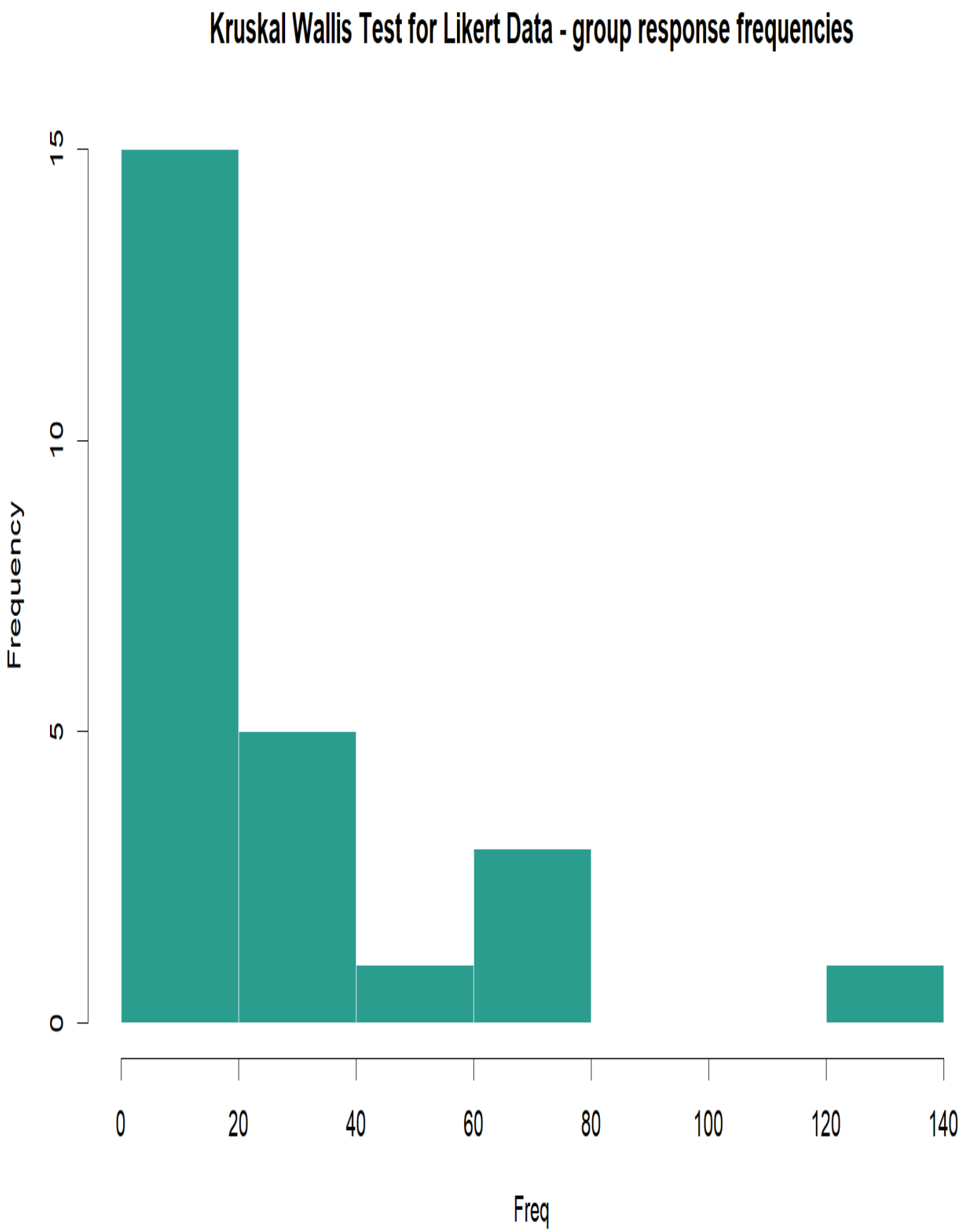
Five maternal−job groups use pooled midranks.

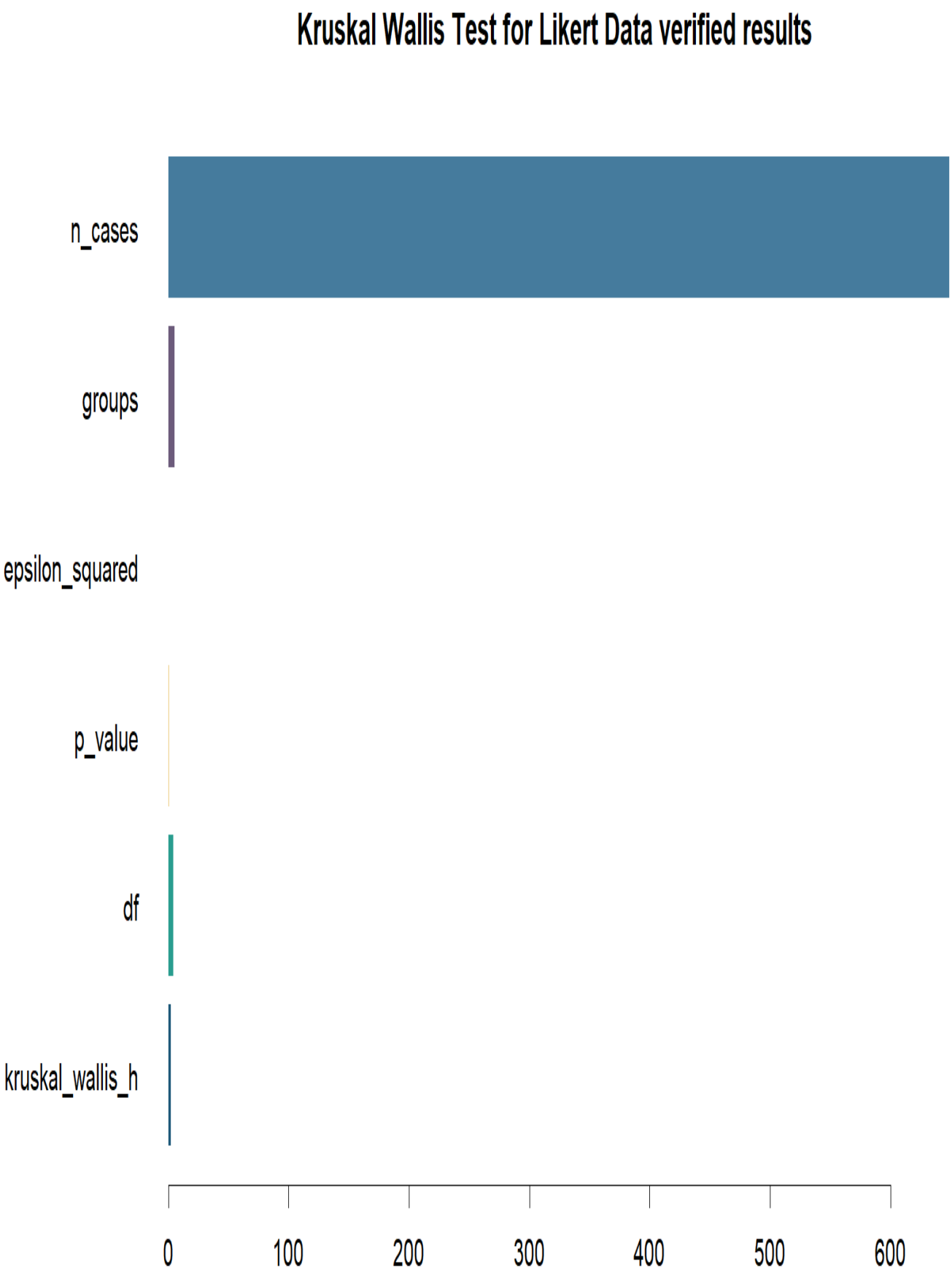
H 2.32725864462954 epsilon squared 0


Kruskal Wallis Test for Likert Data - primary metrics
value
600
500
400
300
200
100
0
kruskal_wallis_h
df
p_value
epsilon_squared
groups
n_cases


Kruskal Wallis Test for Likert Data - group rank summary
rank_n
rank_mean_rank
300
250
200
150
100
50
0
at_home
health
other
services
teacher


Kruskal Wallis Test for Likert Data - group ordinal summary
famrel_n
famrel_median
famrel_mean
famrel_minimum
famrel_maximum
250
200
150
100
50
0
at_home
health
other
services
teacher


Kruskal Wallis Test for Likert Data - group response frequencies
Frequency
0
5
10
15
0
20
40
60
80
100
120
140
Freq


Kruskal Wallis Test for Likert Data verified results
n_cases
groups
epsilon_squared
p_value
df
kruskal_wallis_h
0
100
200
300
400
500
600