CFA Chi−Square Fit Test

Test: CFA Chi−Square Fit Test

Design: Maximum−likelihood exact−fit test for the two−factor covariance model.

Variables: G1, G2, G3, famrel, freetime, goout

Null hypothesis: The model−implied covariance matrix equals the population covariance matrix.

Formula: chi2=(n−1)F_ML; df=p(p+1)/2−q.

Source rows: 649

Calculated metrics:

chi_square: 13.7639720984401

df: 8

p_value: 0.0881286444684742

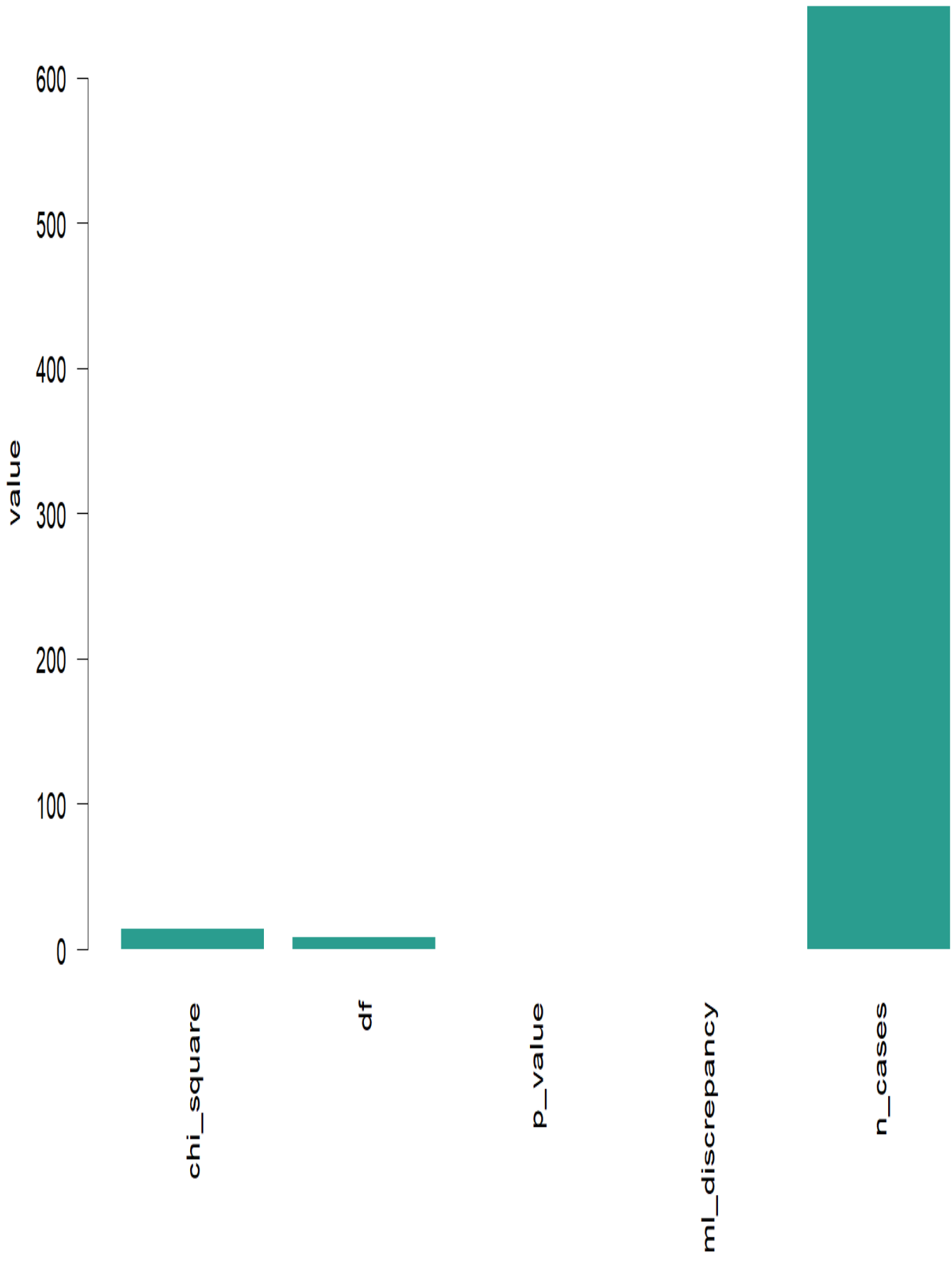
ml_discrepancy: 0.0212406976827779

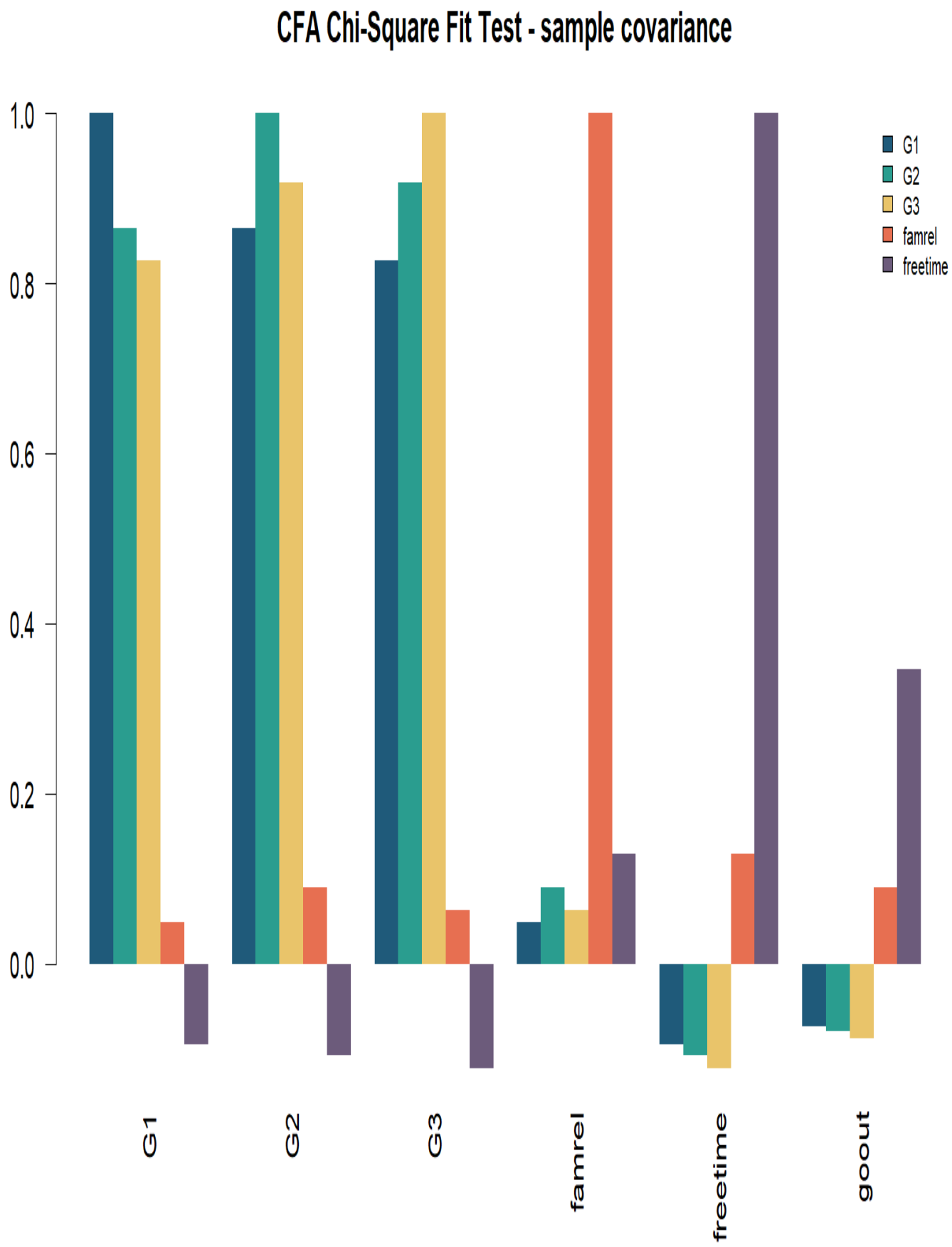
n_cases: 649

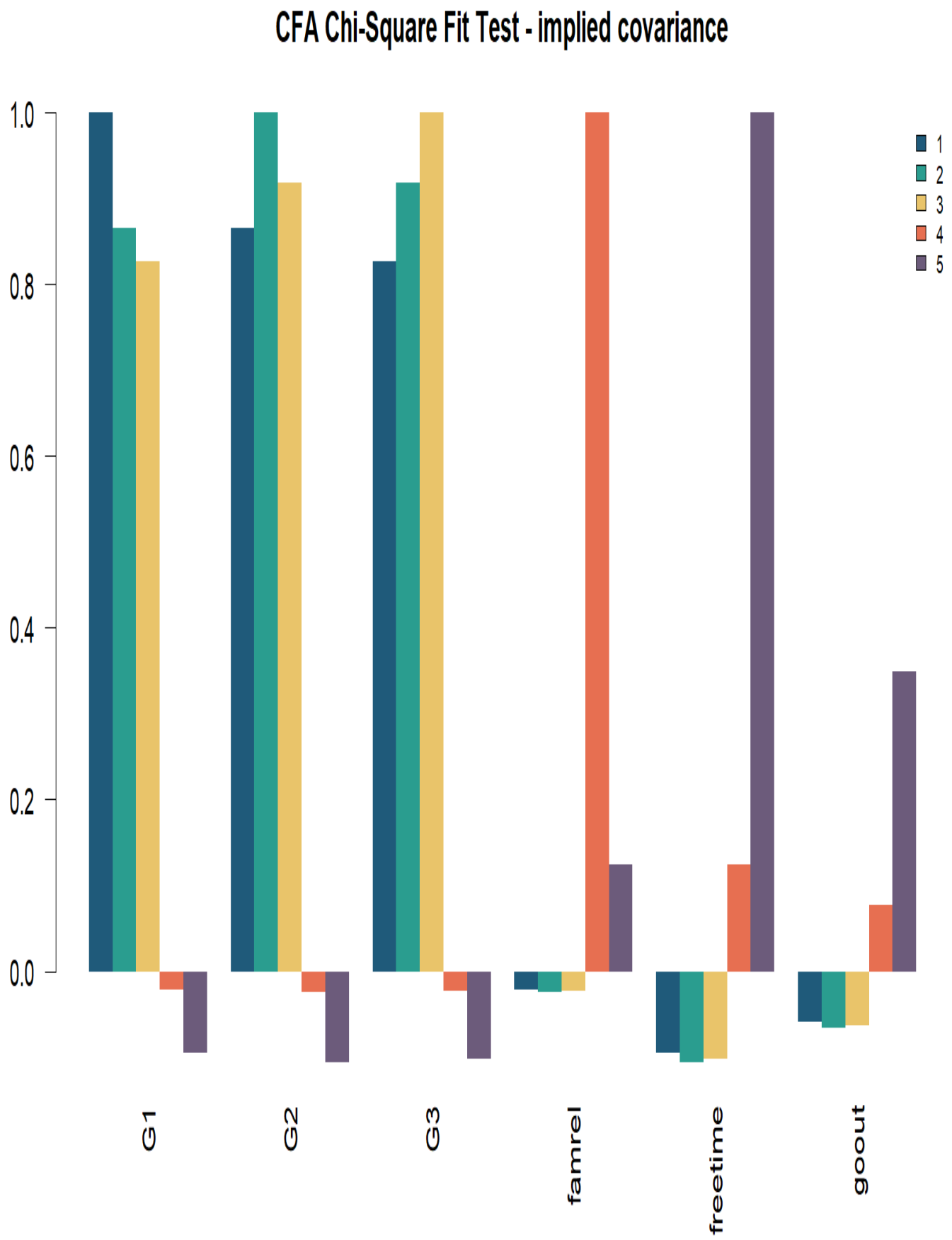
Interpretation:

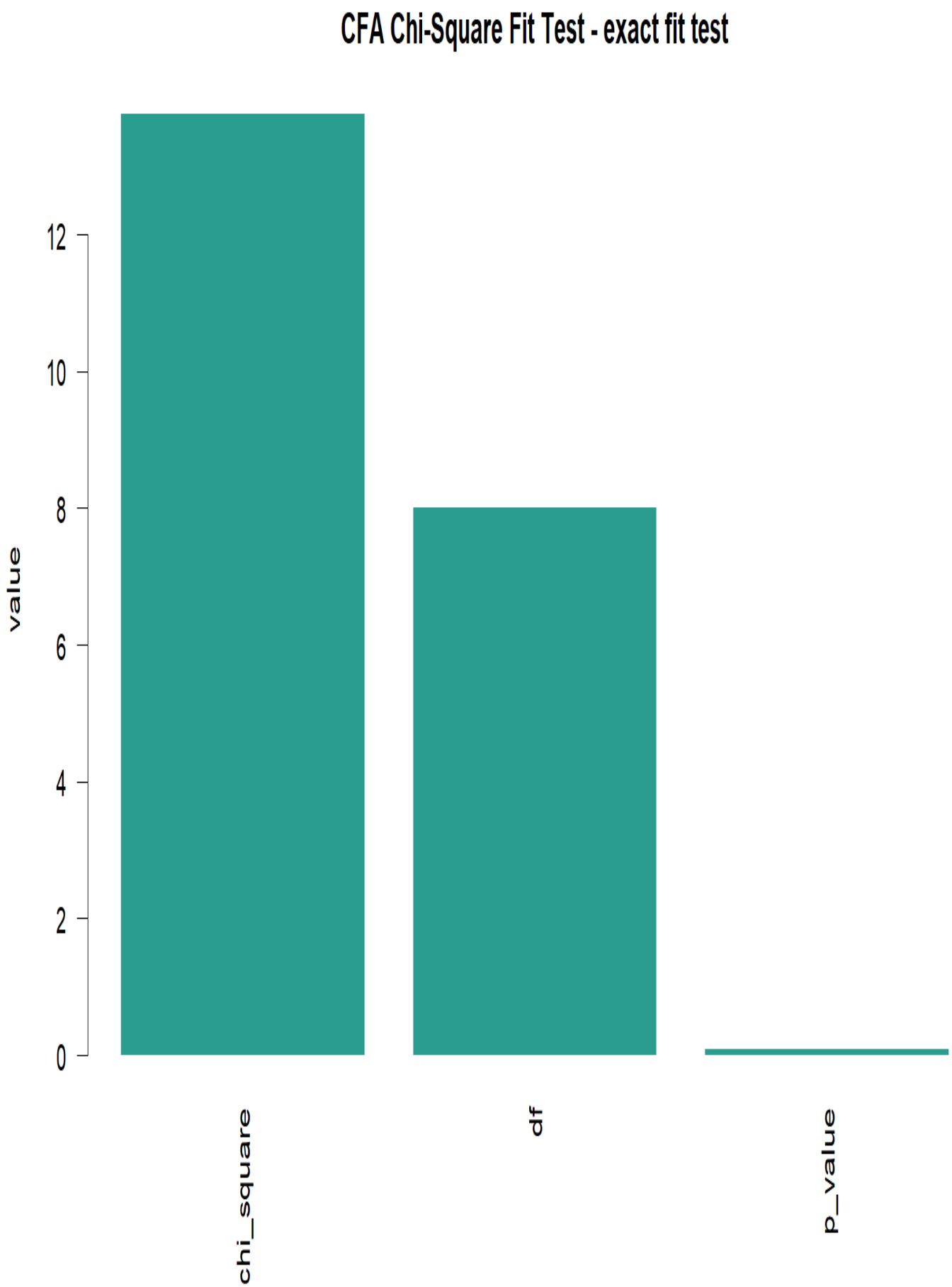
This is an ML covariance exact−fit test.

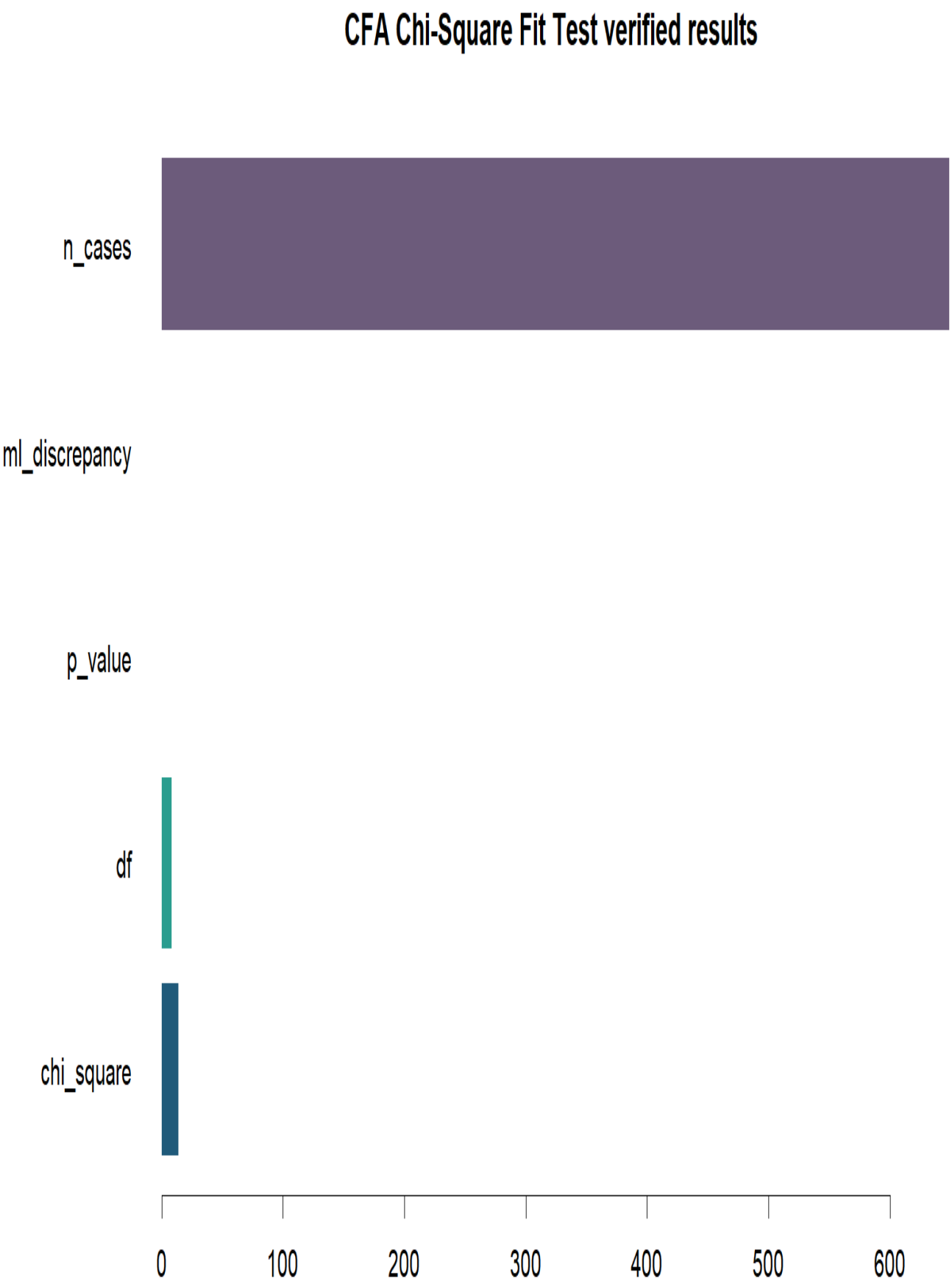
Chi−square 13.7639720984401 df 8


CFA Chi-Square Fit Test - primary metrics
value
600
500
400
300
200
100
0
chi_square
df
p_value
ml_discrepancy
n_cases


CFA Chi-Square Fit Test - sample covariance
1.0
0.8
0.6
0.4
0.2
0.0
G1
G2
G3
famrel
freetime
goout


CFA Chi-Square Fit Test - implied covariance
1.0
0.8
0.6
0.4
0.2
0.0
1
2
3
4
5
G1
G2
G3
famrel
freetime
goout


CFA Chi-Square Fit Test - exact fit test
value
0
2
4
6
8
10
12
chi_square
df
p_value


CFA Chi-Square Fit Test verified results
n_cases
ml_discrepancy
p_value
df
chi_square
0
100
200
300
400
500
600