Model Test User Model:

Test statistic 204.508

Degrees of freedom 21

P-value (Chi-square) 0.000

Model Test Baseline Model:

Test statistic 3224.425

Degrees of freedom 45

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 0.942

Tucker-Lewis Index (TLI) 0.876

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -55542.881

Loglikelihood unrestricted model (H1) -55440.627

Akaike (AIC) 111139.761

Bayesian (BIC) 111328.597

Sample-size adjusted Bayesian (BIC) 111242.796

Root Mean Square Error of Approximation:

RMSEA 0.033

90 Percent confidence interval - lower 0.029

90 Percent confidence interval - upper 0.037

P-value RMSEA <= 0.05 1.000

Standardized Root Mean Square Residual:

SRMR 0.013

Parameter Estimates:

Standard errors Bootstrap

Number of requested bootstrap draws 100

Number of successful bootstrap draws 100

Latent Variables:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

Refereebias =~

FoulDifference 1.000 2.491 0.471

YellwCrdDffrnc 0.491 0.027 18.169 0.000 1.224 0.697

Regressions:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

Refereebias ~

covid (a) -0.585 0.079 -7.445 0.000 -0.235 -0.113

OccpncyRt (a2) 0.161 0.063 2.559 0.010 0.065 0.065

OccpncyR: (a3) 0.029 0.102 0.288 0.774 0.012 0.008

AvrgAttnd (a4) -0.174 0.065 -2.687 0.007 -0.070 -0.070

FrgnrsShD (a5) -0.063 0.049 -1.279 0.201 -0.025 -0.025

AvrgAttn: (a6) -0.052 0.103 -0.506 0.613 -0.021 -0.013

FrgnrsSD: (a7) -0.033 0.074 -0.443 0.658 -0.013 -0.008

RtngDffrn (d1) 0.045 0.002 28.864 0.000 0.018 0.285

ImprtncDf (d2) 0.002 0.001 2.816 0.005 0.001 0.022

ShtsDffrn (d3) 0.013 0.006 2.060 0.039 0.005 0.034

VAR (d4) 0.081 0.053 1.524 0.128 0.032 0.009

league (d6) -0.003 0.008 -0.341 0.733 -0.001 -0.003

GoalDifference ~

covid (cp) -0.184 0.037 -5.007 0.000 -0.184 -0.048

Refereebs (b) 0.039 0.013 3.064 0.002 0.096 0.053

OccpncyRt (b2) 0.019 0.031 0.603 0.546 0.019 0.010

OccpncyR: (b3) -0.158 0.052 -3.041 0.002 -0.158 -0.055

AvrgAttnd (b4) 0.067 0.034 1.986 0.047 0.067 0.037

FrgnrsShD (b5) 0.039 0.025 1.537 0.124 0.039 0.021

AvrgAttn: (b6) 0.055 0.056 0.996 0.319 0.055 0.019

FrgnrsSD: (b7) 0.005 0.041 0.130 0.897 0.005 0.002

AgeDffrnc (b8) 0.021 0.024 0.881 0.379 0.021 0.011

AgDffrnc: (b9) -0.049 0.041 -1.214 0.225 -0.049 -0.016

RtngDffrn (d1) 0.045 0.002 28.864 0.000 0.045 0.387

ImprtncDf (d2) 0.002 0.001 2.816 0.005 0.002 0.030

VAR (d4) 0.081 0.053 1.524 0.128 0.081 0.012

league (d6) -0.003 0.008 -0.341 0.733 -0.003 -0.004

Variances:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

.Refereebias 5.586 0.348 16.047 0.000 0.900 0.900

.FoulDifference 21.789 0.524 41.617 0.000 21.789 0.778

.YellwCrdDffrnc 1.584 0.095 16.717 0.000 1.584 0.514

.GoalDifference 2.692 0.046 58.359 0.000 2.692 0.803

R-Square:

Estimate

Refereebias 0.100

FoulDifference 0.222

YellwCrdDffrnc 0.486

GoalDifference 0.197

Defined Parameters:

Estimate Std.Err z-value P(>|z|) Std.lv Std.all

Direct -0.184 0.037 -4.982 0.000 -0.184 -0.048

indirect -0.023 0.007 -3.061 0.002 -0.023 -0.006

mdrtdmdtnffctc 0.001 0.004 0.272 0.785 0.001 0.000

mdrtdffctccpnc -0.158 0.052 -3.025 0.002 -0.158 -0.055

totlffctccpncy -0.157 0.053 -2.978 0.003 -0.157 -0.055

mdrtdmdtnffctt -0.002 0.004 -0.450 0.652 -0.002 -0.001

mdrtdffctttndn 0.055 0.056 0.991 0.322 0.055 0.019

totlffctttndnc 0.053 0.056 0.956 0.339 0.053 0.018

mdrtdmdtnffctf -0.001 0.003 -0.436 0.663 -0.001 -0.000

mdrtdffctfrgnr 0.005 0.042 0.129 0.897 0.005 0.002

ttlffctfrgnrss 0.004 0.041 0.099 0.921 0.004 0.001

moderatdffctAg -0.049 0.041 -1.208 0.227 -0.049 -0.016

total -0.356 0.087 -4.077 0.000 -0.356 -0.106

confounderRtng 0.045 0.002 28.719 0.000 0.018 0.285

confndrImprtnc 0.002 0.001 2.802 0.005 0.001 0.022

confounderShts 0.013 0.006 2.050 0.040 0.005 0.034

counfounderVar 0.081 0.053 1.516 0.130 0.032 0.009

confounderleag -0.003 0.008 -0.339 0.734 -0.001 -0.003