|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Moderated Mediation Model Outcome | | | | | |
| Predictors | Criterion | Path | Est | Se | P-value |
| X1: Covid | M: Foul Difference | A1 | .4088 | .1802 | .0233 \* |
| X2: Occupancy |  | A2 | -.2552 | .1216 | .0359 \* |
| X1\*X2 |  | A3 | .3163 | .1710 | .0644 |
| *R2* |  | - | .0086 |  |  |
| X1: Covid | Y: Goal Difference | C’1 | -.1530 | .0555 | .0058 \*\* |
| X2: Occupancy |  | C’2 | .0615 | .0374 | .1006 |
| X1\*X2 |  | C’3 | -.0550 | .0527 | .2960 |
| M: Foul Difference |  | B | .0149 | .0034 | 1.53e-05 \*\*\* |
| *R2* |  | - | .2027 |  |  |
| *Indirect effects:* | | | | | |
| X1 to M to Y |  | A1\*B | .0061 | .0029 | .808 |
| X2 to M to Y |  | A2\*B | -.0038 | .0020 | .8531 |
| X1\*X2 to M to Y |  | A3\*B | .0047 | .0027 | .8484 |
| *Total effect of X1\*X2* |  | A3\*B + C’3 | -.0503 | .0523 | .3370 |
| *Diff indirect/direct* |  | A3\*B - C’3 | .0598 | .0561 | .2871 |
| Note:Signif. codes: ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 | | | | | |

Estimator ML

Optimization method NLMINB

Number of model parameters 30

Number of equality constraints 3

Number of observations 8039

Model Test User Model:

Test statistic 522.526

Degrees of freedom 31

P-value (Chi-square) 0.000

Model Test Baseline Model:

Test statistic 3730.443

Degrees of freedom 54

P-value 0.000

User Model versus Baseline Model:

Comparative Fit Index (CFI) 0.866

Tucker-Lewis Index (TLI) 0.767

Loglikelihood and Information Criteria:

Loglikelihood user model (H0) -60435.213

Loglikelihood unrestricted model (H1) -60173.951

Akaike (AIC) 120924.427

Bayesian (BIC) 121113.213

Sample-size adjusted Bayesian (BIC) 121027.412

Root Mean Square Error of Approximation:

RMSEA 0.044

90 Percent confidence interval - lower 0.041

90 Percent confidence interval - upper 0.048

1. value RMSEA <= 0.05 0.997

Standardized Root Mean Square Residual:

SRMR 0.021

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 2.310 0.435

RedCardDiffrnc 0.041 0.004 10.830 0.000 0.094 0.206

YellwCrdDffrnc 0.588 0.023 25.207 0.000 1.357 0.770

Regressions:

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

Refereebias ~

covid (a) -0.736 0.080 -9.184 0.000 -0.319 -0.154

OccpncyRt (a2) 0.157 0.056 2.794 0.005 0.068 0.068

OccpncyR: (a3) -0.076 0.071 -1.078 0.281 -0.033 -0.021

AvrgAttnd (a4) -0.190 0.056 -3.418 0.001 -0.082 -0.083

FrgnrsShD (a5) -0.069 0.039 -1.757 0.079 -0.030 -0.030

AvrgAttn: (a6) -0.055 0.101 -0.541 0.589 -0.024 -0.012

FrgnrsSD: (a7) -0.042 0.063 -0.665 0.506 -0.018 -0.011

RtngDffrn (d1) 0.044 0.001 30.832 0.000 0.019 0.297

ImprtncDf (d2) 0.002 0.001 2.945 0.003 0.001 0.022

VAR (d4) 0.069 0.051 1.345 0.179 0.030 0.008

GoalDifference ~

covid (cp) -0.084 0.044 -1.907 0.057 -0.084 -0.022

Refereebs (b) 0.067 0.012 5.512 0.000 0.155 0.085

OccpncyRt (b2) 0.018 0.029 0.636 0.525 0.018 0.010

OccpncyR: (b3) -0.097 0.038 -2.569 0.010 -0.097 -0.034

AvrgAttnd (b4) 0.076 0.030 2.515 0.012 0.076 0.042

FrgnrsShD (b5) 0.043 0.029 1.502 0.133 0.043 0.024

AvrgAttn: (b6) 0.020 0.061 0.323 0.747 0.020 0.006

FrgnrsSD: (b7) 0.020 0.037 0.550 0.583 0.020 0.007

AgeDffrnc (b8) 0.024 0.021 1.169 0.242 0.024 0.013

AgDffrnc: (b9) -0.059 0.038 -1.557 0.120 -0.059 -0.019

RtngDffrn (d1) 0.044 0.001 30.832 0.000 0.044 0.375

ImprtncDf (d2) 0.002 0.001 2.945 0.003 0.002 0.028

VAR (d4) 0.069 0.051 1.345 0.179 0.069 0.011

Variances:

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

.Refereebias 4.815 0.259 18.571 0.000 0.903 0.903

.FoulDifference 22.920 0.431 53.179 0.000 22.920 0.811

.RedCardDiffrnc 0.199 0.007 29.522 0.000 0.199 0.958

.YellwCrdDffrnc 1.262 0.092 13.730 0.000 1.262 0.407

.GoalDifference 2.684 0.047 57.220 0.000 2.684 0.804

R-Square:

Estimate

Refereebias 0.097

FoulDifference 0.189

RedCardDiffrnc 0.042

YellwCrdDffrnc 0.593

GoalDifference 0.196

Defined Parameters:

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

Direct -0.084 0.044 -1.897 0.058 -0.084 -0.022

indirect -0.049 0.010 -4.920 0.000 -0.049 -0.013

mdrtdmdtnffctc -0.005 0.005 -1.058 0.290 -0.005 -0.002

mdrtdffctccpnc -0.097 0.038 -2.556 0.011 -0.097 -0.034

mdrtdmdtnffctt -0.004 0.007 -0.506 0.613 -0.004 -0.001

mdrtdffctttndn 0.020 0.061 0.321 0.748 0.020 0.006

mdrtdmdtnffctf -0.003 0.004 -0.638 0.523 -0.003 -0.001

mdrtdffctfrgnr 0.020 0.037 0.547 0.584 0.020 0.007

moderatdffctAg -0.059 0.038 -1.549 0.121 -0.059 -0.019

total -0.133 0.043 -3.081 0.002 -0.133 -0.035

confounderRtng 0.044 0.001 30.677 0.000 0.019 0.297

confndrImprtnc 0.002 0.001 2.931 0.003 0.001 0.022

counfounderVar 0.069 0.052 1.338 0.181 0.030 0.008