**LAMPIRAN 1. Hasil Analisis SEM dengan WarpPLS 6.0**

Project path (directory): D:\SEM-YOGA\

Project file: SEM-yoga.prj

Raw data path (directory): D:\SEM-YOGA\

Raw data file: Data-1.txt

Model fit and quality indices

Average path coefficient (APC)=0.300, P<0.001

Average R-squared (ARS)=0.284, P<0.001

Average adjusted R-squared (AARS)=0.271, P<0.001

Average block VIF (AVIF)=1.469, acceptable if <= 5, ideally <= 3.3

Average full collinearity VIF (AFVIF)=1.589, acceptable if <= 5, ideally <= 3.3

Tenenhaus GoF (GoF)=0.408, small >= 0.1, medium >= 0.25, large >= 0.36

Sympson's paradox ratio (SPR)=0.833, acceptable if >= 0.7, ideally = 1

R-squared contribution ratio (RSCR)=0.966, acceptable if >= 0.9, ideally = 1

Statistical suppression ratio (SSR)=1.000, acceptable if >= 0.7

Nonlinear bivariate causality direction ratio (NLBCDR)=1.000, acceptable if >= 0.7

General model elements

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Missing data imputation algorithm: Arithmetic Mean Imputation

Outer model analysis algorithm: PLS Regression

Default inner model analysis algorithm: Warp3

Multiple inner model analysis algorithms used? No

Resampling method used in the analysis: Stable3

Number of data resamples used: 100

Number of cases (rows) in model data: 118

Number of latent variables in model: 4

Number of indicators used in model: 32

Number of iterations to obtain estimates: 7

Range restriction variable type: None

Range restriction variable: None

Range restriction variable min value: 0.000

Range restriction variable max value: 0.000

Only ranked data used in analysis? No

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\* Path coefficients and P values \*

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Path coefficients

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X Y1 Y2 Y3

Y1 0.581

Y2 0.116 0.512

Y3 0.116 -0.133 -0.341

P values

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X Y1 Y2 Y3

Y1 <0.001

Y2 0.098 <0.001

Y3 0.098 0.069 <0.001

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\* Standard errors for path coefficients \*

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X Y1 Y2 Y3

Y1 0.080

Y2 0.089 0.081

Y3 0.089 0.089 0.085

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\* Effect sizes for path coefficients \*

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X Y1 Y2 Y3

Y1 0.338

Y2 0.048 0.297

Y3 0.031 0.049 0.151

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\* Combined loadings and cross-loadings \*

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X Y1 Y2 Y3 Type (a SE P value

P1 0.739 -0.013 0.019 0.077 Reflect 0.077 <0.001

P2 0.835 0.087 0.114 0.097 Reflect 0.075 <0.001

P3 0.747 0.363 -0.128 -0.037 Reflect 0.076 <0.001

P4 0.719 0.213 0.152 0.040 Reflect 0.077 <0.001

P5 0.854 0.200 -0.033 0.056 Reflect 0.074 <0.001

P6 0.885 -0.223 0.023 -0.001 Reflect 0.074 <0.001

P7 0.862 -0.213 0.013 -0.020 Reflect 0.074 <0.001

P8 0.823 -0.165 -0.104 -0.117 Reflect 0.075 <0.001

P9 0.769 -0.184 -0.053 -0.093 Reflect 0.076 <0.001

P14 0.529 0.720 -0.220 -0.031 Reflect 0.077 <0.001

P16 -0.108 0.758 0.049 -0.095 Reflect 0.076 <0.001

P20 -0.451 0.639 -0.034 0.037 Reflect 0.078 <0.001

P22 -0.016 0.724 0.197 0.097 Reflect 0.077 <0.001

P25 0.057 0.100 0.635 0.027 Reflect 0.079 <0.001

P26 0.065 0.117 0.861 -0.114 Reflect 0.074 <0.001

P27 0.024 -0.041 0.880 -0.101 Reflect 0.074 <0.001

P28 0.062 0.065 0.872 -0.059 Reflect 0.074 <0.001

P29 -0.082 0.301 0.796 0.051 Reflect 0.075 <0.001

P30 -0.052 0.075 0.794 -0.030 Reflect 0.075 <0.001

P31 -0.096 -0.450 0.566 0.175 Reflect 0.080 <0.001

P32 -0.010 -0.418 0.548 0.193 Reflect 0.080 <0.001

P33 0.013 -0.227 0.021 0.605 Reflect 0.079 <0.001

P34 -0.142 -0.038 0.120 0.642 Reflect 0.078 <0.001

P35 -0.076 0.251 -0.067 0.779 Reflect 0.076 <0.001

P26\_2 0.078 0.094 -0.134 0.871 Reflect 0.074 <0.001

P37 0.203 -0.072 -0.159 0.864 Reflect 0.074 <0.001

P38 0.055 -0.050 -0.028 0.849 Reflect 0.074 <0.001

P39 -0.222 0.130 -0.032 0.721 Reflect 0.077 <0.001

P40 0.030 0.015 0.146 0.844 Reflect 0.075 <0.001

P41 0.012 -0.003 -0.069 0.827 Reflect 0.075 <0.001

P42 0.013 -0.045 0.031 0.787 Reflect 0.076 <0.001

P43 -0.040 -0.098 0.209 0.827 Reflect 0.075 <0.001

Notes: Loadings are unrotated and cross-loadings are oblique-rotated. SEs and P values are for loadings. P values < 0.05 are desirable for reflective indicators.

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\* Normalized combined loadings and cross-loadings \*

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X Y1 Y2 Y3

P1 0.834 -0.017 0.025 0.102

P2 0.774 0.113 0.147 0.126

P3 0.737 0.525 -0.185 -0.054

P4 0.705 0.360 0.257 0.067

P5 0.779 0.254 -0.042 0.071

P6 0.869 -0.217 0.022 -0.001

P7 0.863 -0.213 0.013 -0.020

P8 0.852 -0.168 -0.106 -0.120

P9 0.852 -0.201 -0.057 -0.101

P14 0.695 0.675 -0.288 -0.041

P16 -0.137 0.732 0.063 -0.121

P20 -0.416 0.843 -0.032 0.035

P22 -0.024 0.738 0.296 0.146

P25 0.099 0.174 0.726 0.047

P26 0.089 0.162 0.719 -0.157

P27 0.028 -0.048 0.765 -0.120

P28 0.079 0.084 0.743 -0.076

P29 -0.111 0.407 0.735 0.068

P30 -0.067 0.097 0.756 -0.038

P31 -0.088 -0.410 0.965 0.159

P32 -0.009 -0.407 0.937 0.188

P33 0.023 -0.388 0.036 0.763

P34 -0.205 -0.054 0.173 0.836

P35 -0.088 0.292 -0.077 0.909

P26\_2 0.089 0.108 -0.153 0.876

P37 0.240 -0.085 -0.188 0.842

P38 0.066 -0.060 -0.034 0.853

P39 -0.292 0.171 -0.042 0.808

P40 0.033 0.016 0.156 0.930

P41 0.015 -0.004 -0.086 0.843

P42 0.017 -0.057 0.040 0.866

P43 -0.044 -0.107 0.229 0.891

Note: Loadings are unrotated and cross-loadings are oblique-rotated, both after separate Kaiser normalizations.

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\* Pattern loadings and cross-loadings \*

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X Y1 Y2 Y3

P1 0.747 -0.013 0.019 0.077

P2 0.753 0.087 0.114 0.097

P3 0.574 0.363 -0.128 -0.037

P4 0.530 0.213 0.152 0.040

P5 0.759 0.200 -0.033 0.056

P6 1.007 -0.223 0.023 -0.001

P7 0.979 -0.213 0.013 -0.020

P8 0.951 -0.165 -0.104 -0.117

P9 0.893 -0.184 -0.053 -0.093

P14 0.529 0.501 -0.220 -0.031

P16 -0.108 0.768 0.049 -0.095

P20 -0.451 0.984 -0.034 0.037

P22 -0.016 0.627 0.197 0.097

P25 0.057 0.100 0.560 0.027

P26 0.065 0.117 0.701 -0.114

P27 0.024 -0.041 0.835 -0.101

P28 0.062 0.065 0.768 -0.059

P29 -0.082 0.301 0.669 0.051

P30 -0.052 0.075 0.764 -0.030

P31 -0.096 -0.450 0.982 0.175

P32 -0.010 -0.418 0.919 0.193

P33 0.013 -0.227 0.021 0.539

P34 -0.142 -0.038 0.120 0.667

P35 -0.076 0.251 -0.067 0.818

P26\_2 0.078 0.094 -0.134 0.857

P37 0.203 -0.072 -0.159 0.802

P38 0.055 -0.050 -0.028 0.830

P39 -0.222 0.130 -0.032 0.713

P40 0.030 0.015 0.146 0.919

P41 0.012 -0.003 -0.069 0.794

P42 0.013 -0.045 0.031 0.787

P43 -0.040 -0.098 0.209 0.882

Note: Loadings and cross-loadings are oblique-rotated.

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\* Normalized pattern loadings and cross-loadings \*

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X Y1 Y2 Y3

P1 0.994 -0.017 0.025 0.102

P2 0.975 0.113 0.147 0.126

P3 0.829 0.525 -0.185 -0.054

P4 0.894 0.360 0.257 0.067

P5 0.964 0.254 -0.042 0.071

P6 0.976 -0.217 0.022 -0.001

P7 0.977 -0.213 0.013 -0.020

P8 0.973 -0.168 -0.106 -0.120

P9 0.973 -0.201 -0.057 -0.101

P14 0.695 0.657 -0.288 -0.041

P16 -0.137 0.981 0.063 -0.121

P20 -0.416 0.908 -0.032 0.035

P22 -0.024 0.943 0.296 0.146

P25 0.099 0.174 0.979 0.047

P26 0.089 0.162 0.970 -0.157

P27 0.028 -0.048 0.991 -0.120

P28 0.079 0.084 0.990 -0.076

P29 -0.111 0.407 0.904 0.068

P30 -0.067 0.097 0.992 -0.038

P31 -0.088 -0.410 0.894 0.159

P32 -0.009 -0.407 0.894 0.188

P33 0.023 -0.388 0.036 0.921

P34 -0.205 -0.054 0.173 0.962

P35 -0.088 0.292 -0.077 0.949

P26\_2 0.089 0.108 -0.153 0.978

P37 0.240 -0.085 -0.188 0.949

P38 0.066 -0.060 -0.034 0.995

P39 -0.292 0.171 -0.042 0.940

P40 0.033 0.016 0.156 0.987

P41 0.015 -0.004 -0.086 0.996

P42 0.017 -0.057 0.040 0.997

P43 -0.044 -0.107 0.229 0.967

Note: Loadings and cross-loadings shown are after oblique rotation and Kaiser normalization.

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\* Structure loadings and cross-loadings \*

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X Y1 Y2 Y3

P1 0.739 0.404 0.266 -0.063

P2 0.835 0.533 0.411 -0.117

P3 0.747 0.566 0.331 -0.199

P4 0.719 0.533 0.449 -0.192

P5 0.854 0.575 0.356 -0.130

P6 0.885 0.396 0.291 -0.111

P7 0.862 0.397 0.285 -0.124

P8 0.823 0.407 0.243 -0.174

P9 0.769 0.370 0.251 -0.152

P14 0.699 0.720 0.309 -0.192

P16 0.381 0.758 0.483 -0.344

P20 0.125 0.639 0.333 -0.199

P22 0.401 0.724 0.484 -0.204

P25 0.331 0.426 0.635 -0.263

P26 0.417 0.552 0.861 -0.462

P27 0.337 0.482 0.880 -0.451

P28 0.403 0.528 0.872 -0.420

P29 0.348 0.556 0.796 -0.328

P30 0.303 0.484 0.794 -0.383

P31 0.027 0.098 0.566 -0.114

P32 0.100 0.151 0.548 -0.093

P33 -0.198 -0.334 -0.334 0.605

P34 -0.199 -0.243 -0.280 0.642

P35 -0.105 -0.159 -0.301 0.779

P26\_2 -0.082 -0.228 -0.414 0.871

P37 -0.054 -0.310 -0.456 0.864

P38 -0.123 -0.302 -0.404 0.849

P39 -0.266 -0.260 -0.370 0.721

P40 -0.066 -0.218 -0.242 0.844

P41 -0.163 -0.297 -0.404 0.827

P42 -0.135 -0.270 -0.339 0.787

P43 -0.165 -0.281 -0.265 0.827

Note: Loadings and cross-loadings are unrotated.

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\* Normalized structure loadings and cross-loadings \*

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X Y1 Y2 Y3

P1 0.834 0.457 0.300 -0.071

P2 0.774 0.494 0.381 -0.108

P3 0.737 0.559 0.327 -0.196

P4 0.705 0.523 0.441 -0.189

P5 0.779 0.524 0.324 -0.118

P6 0.869 0.389 0.286 -0.109

P7 0.863 0.398 0.286 -0.124

P8 0.852 0.421 0.252 -0.180

P9 0.852 0.410 0.278 -0.169

P14 0.655 0.675 0.290 -0.179

P16 0.368 0.732 0.467 -0.332

P20 0.165 0.843 0.439 -0.262

P22 0.409 0.738 0.494 -0.208

P25 0.379 0.488 0.726 -0.301

P26 0.348 0.461 0.719 -0.386

P27 0.293 0.419 0.765 -0.392

P28 0.343 0.450 0.743 -0.358

P29 0.322 0.514 0.735 -0.303

P30 0.288 0.461 0.756 -0.365

P31 0.046 0.168 0.965 -0.195

P32 0.170 0.259 0.937 -0.159

P33 -0.250 -0.422 -0.421 0.763

P34 -0.259 -0.317 -0.364 0.836

P35 -0.123 -0.186 -0.352 0.909

P26\_2 -0.083 -0.230 -0.417 0.876

P37 -0.052 -0.302 -0.444 0.842

P38 -0.123 -0.304 -0.406 0.853

P39 -0.298 -0.292 -0.415 0.808

P40 -0.073 -0.241 -0.267 0.930

P41 -0.167 -0.302 -0.412 0.843

P42 -0.148 -0.297 -0.373 0.866

P43 -0.178 -0.303 -0.286 0.891

Note: Loadings and cross-loadings shown are unrotated and after Kaiser normalization.

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\* Indicator weights \*

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X Y1 Y2 Y3 Type (a SE P value VIF WLS ES

P1 0.127 0.000 0.000 0.000 Reflect 0.089 0.079 2.067 1 0.094

P2 0.143 0.000 0.000 0.000 Reflect 0.089 0.055 2.907 1 0.119

P3 0.128 0.000 0.000 0.000 Reflect 0.089 0.077 2.028 1 0.095

P4 0.123 0.000 0.000 0.000 Reflect 0.089 0.085 2.015 1 0.088

P5 0.146 0.000 0.000 0.000 Reflect 0.089 0.051 3.157 1 0.125

P6 0.152 0.000 0.000 0.000 Reflect 0.089 0.045 6.002 1 0.134

P7 0.148 0.000 0.000 0.000 Reflect 0.089 0.050 4.978 1 0.127

P8 0.141 0.000 0.000 0.000 Reflect 0.089 0.058 3.861 1 0.116

P9 0.132 0.000 0.000 0.000 Reflect 0.089 0.071 2.792 1 0.101

P14 0.000 0.356 0.000 0.000 Reflect 0.084 <0.001 1.319 1 0.256

P16 0.000 0.374 0.000 0.000 Reflect 0.084 <0.001 1.366 1 0.284

P20 0.000 0.316 0.000 0.000 Reflect 0.085 <0.001 1.220 1 0.202

P22 0.000 0.357 0.000 0.000 Reflect 0.084 <0.001 1.320 1 0.258

P25 0.000 0.000 0.139 0.000 Reflect 0.089 0.060 1.896 1 0.088

P26 0.000 0.000 0.189 0.000 Reflect 0.088 0.017 4.473 1 0.162

P27 0.000 0.000 0.193 0.000 Reflect 0.088 0.015 4.102 1 0.170

P28 0.000 0.000 0.191 0.000 Reflect 0.088 0.016 4.297 1 0.167

P29 0.000 0.000 0.174 0.000 Reflect 0.088 0.025 3.095 1 0.139

P30 0.000 0.000 0.174 0.000 Reflect 0.088 0.025 2.551 1 0.138

P31 0.000 0.000 0.124 0.000 Reflect 0.089 0.083 2.452 1 0.070

P32 0.000 0.000 0.120 0.000 Reflect 0.089 0.091 2.334 1 0.066

P33 0.000 0.000 0.000 0.089 Reflect 0.090 0.164 1.873 1 0.054

P34 0.000 0.000 0.000 0.094 Reflect 0.090 0.149 2.084 1 0.060

P35 0.000 0.000 0.000 0.114 Reflect 0.089 0.102 2.444 1 0.089

P26\_2 0.000 0.000 0.000 0.127 Reflect 0.089 0.078 5.168 1 0.111

P37 0.000 0.000 0.000 0.127 Reflect 0.089 0.079 4.227 1 0.109

P38 0.000 0.000 0.000 0.124 Reflect 0.089 0.083 3.247 1 0.105

P39 0.000 0.000 0.000 0.106 Reflect 0.090 0.121 3.051 1 0.076

P40 0.000 0.000 0.000 0.124 Reflect 0.089 0.084 3.663 1 0.104

P41 0.000 0.000 0.000 0.121 Reflect 0.089 0.089 3.559 1 0.100

P42 0.000 0.000 0.000 0.115 Reflect 0.089 0.100 2.793 1 0.091

P43 0.000 0.000 0.000 0.121 Reflect 0.089 0.089 3.611 1 0.100

Notes: P values < 0.05 and VIFs < 2.5 are desirable for formative indicators; VIF = indicator variance inflation factor;

WLS = indicator weight-loading sign (-1 = Simpson's paradox in l.v.); ES = indicator effect size.

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\* Latent variable coefficients \*

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R-squared coefficients

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X Y1 Y2 Y3

0.338 0.345 0.170

Adjusted R-squared coefficients

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X Y1 Y2 Y3

0.332 0.334 0.148

Composite reliability coefficients

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X Y1 Y2 Y3

0.943 0.803 0.911 0.947

Cronbach's alpha coefficients

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X Y1 Y2 Y3

0.932 0.673 0.887 0.937

Average variances extracted

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X Y1 Y2 Y3

0.649 0.506 0.570 0.621

Full collinearity VIFs

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X Y1 Y2 Y3

1.513 1.910 1.674 1.260

Q-squared coefficients

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X Y1 Y2 Y3

0.339 0.353 0.237

Minimum and maximum values

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X Y1 Y2 Y3

-1.286 -2.548 -3.465 -1.849

3.374 2.342 2.376 3.184

Medians (top) and modes (bottom)

--------------------------------

X Y1 Y2 Y3

-0.229 -0.095 -0.010 -0.253

-0.121 1.684 -0.544 -0.738

Skewness (top) and exc. kurtosis (bottom) coefficients

------------------------------------------------------

X Y1 Y2 Y3

1.045 0.046 -0.479 1.047

0.653 -0.498 1.328 1.577

Tests of unimodality: Rohatgi-Székely (top) and Klaassen-Mokveld-van Es (bottom)

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X Y1 Y2 Y3

Yes Yes Yes Yes

Yes Yes Yes Yes

Tests of normality: Jarque–Bera (top) and robust Jarque–Bera (bottom)

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X Y1 Y2 Y3

No Yes No No

No Yes No No

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\* Correlations among latent variables and errors \*

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Correlations among l.vs. with sq. rts. of AVEs

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X Y1 Y2 Y3

X 0.806 0.574 0.395 -0.172

Y1 0.574 0.712 0.569 -0.332

Y2 0.395 0.569 0.755 -0.440

Y3 -0.172 -0.332 -0.440 0.788

Note: Square roots of average variances extracted (AVEs) shown on diagonal.

P values for correlations

-------------------------

X Y1 Y2 Y3

X 1.000 <0.001 <0.001 0.062

Y1 <0.001 1.000 <0.001 <0.001

Y2 <0.001 <0.001 1.000 <0.001

Y3 0.062 <0.001 <0.001 1.000

Correlations among l.v. error terms with VIFs

---------------------------------------------

(e)Y1 (e)Y2 (e)Y3

(e)Y1 1.001 0.016 -0.030

(e)Y2 0.016 1.001 -0.021

(e)Y3 -0.030 -0.021 1.001

Notes: Variance inflation factors (VIFs) shown on diagonal. Error terms included (a.k.a. residuals) are for endogenous l.vs.

P values for correlations

-------------------------

(e)Y1 (e)Y2 (e)Y3

(e)Y1 1.000 0.861 0.747

(e)Y2 0.861 1.000 0.821

(e)Y3 0.747 0.821 1.000

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\* Block variance inflation factors \*

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X Y1 Y2 Y3

Y2 1.498 1.498

Y3 1.259 1.669 1.420

Note: These VIFs are for the latent variables on each column (predictors), with reference to the latent variables on each row (criteria).

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\* Indirect and total effects \*

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Indirect effects for paths with 2 segments

------------------------------

X Y1 Y2 Y3

Y2 0.298

Y3 -0.117 -0.175

Number of paths with 2 segments

------------------------------

X Y1 Y2 Y3

Y2 1

Y3 2 1

P values of indirect effects for paths with 2 segments

------------------------------

X Y1 Y2 Y3

Y2 <0.001

Y3 0.097 0.003

Standard errors of indirect effects for paths with 2 segments

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X Y1 Y2 Y3

Y2 0.060

Y3 0.089 0.062

Effect sizes of indirect effects for paths with 2 segments

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X Y1 Y2 Y3

Y2 0.123

Y3 0.031 0.065

Indirect effects for paths with 3 segments

------------------------------

X Y1 Y2 Y3

Y3 -0.102

Number of paths with 3 segments

------------------------------

X Y1 Y2 Y3

Y3 1

P values of indirect effects for paths with 3 segments

------------------------------

X Y1 Y2 Y3

Y3 0.026

Standard errors of indirect effects for paths with 3 segments

------------------------------

X Y1 Y2 Y3

Y3 0.052

Effect sizes of indirect effects for paths with 3 segments

------------------------------

X Y1 Y2 Y3

Y3 0.027

Sums of indirect effects

------------------------------

X Y1 Y2 Y3

Y2 0.298

Y3 -0.218 -0.175

Number of paths for indirect effects

------------------------------

X Y1 Y2 Y3

Y2 1

Y3 3 1

P values for sums of indirect effects

------------------------------

X Y1 Y2 Y3

Y2 <0.001

Y3 0.007 0.003

Standard errors for sums of indirect effects

------------------------------

X Y1 Y2 Y3

Y2 0.060

Y3 0.087 0.062

Effect sizes for sums of indirect effects

------------------------------

X Y1 Y2 Y3

Y2 0.123

Y3 0.058 0.065

Total effects

------------------------------

X Y1 Y2 Y3

Y1 0.581

Y2 0.414 0.512

Y3 -0.102 -0.308 -0.341

Number of paths for total effects

------------------------------

X Y1 Y2 Y3

Y1 1

Y2 2 1

Y3 4 2 1

P values for total effects

------------------------------

X Y1 Y2 Y3

Y1 <0.001

Y2 <0.001 <0.001

Y3 0.129 <0.001 <0.001

Standard errors for total effects

------------------------------

X Y1 Y2 Y3

Y1 0.080

Y2 0.083 0.081

Y3 0.090 0.085 0.085

Effect sizes for total effects

------------------------------

X Y1 Y2 Y3

Y1 0.338

Y2 0.171 0.297

Y3 0.027 0.114 0.151

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Causality assessment coefficients \*

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Path-correlation signs

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X Y1 Y2 Y3

Y1 1

Y2 1 1

Y3 -1 1 1

Notes: path-correlation signs; negative sign (i.e., -1) = Simpson's paradox.

R-squared contributions

-----------------------

X Y1 Y2 Y3

Y1 0.338

Y2 0.048 0.297

Y3 -0.031 0.049 0.151

Notes: R-squared contributions of predictor lat. vars.; columns = predictor lat. vars.; rows = criteria lat. vars.; negative sign = reduction in R-squared.

Path-correlation ratios

-----------------------

X Y1 Y2 Y3

Y1 1.000

Y2 0.283 0.884

Y3 0.440 0.358 0.770

Notes: absolute path-correlation ratios; ratio > 1 indicates statistical suppression; 1 < ratio <= 1.3: weak suppression; 1.3 < ratio <= 1.7: medium; 1.7 < ratio: strong.

Path-correlation differences

----------------------------

X Y1 Y2 Y3

Y1 0.000

Y2 0.296 0.067

Y3 0.381 0.238 0.102

Note: absolute path-correlation differences.

P values for path-correlation differences

-----------------------------------------

X Y1 Y2 Y3

Y1 1.000

Y2 <0.001 0.230

Y3 <0.001 0.003 0.129

Note: P values for absolute path-correlation differences.

Warp2 bivariate causal direction ratios

---------------------------------------

X Y1 Y2 Y3

Y1 1.063

Y2 1.069 1.016

Y3 0.969 1.000 0.999

Notes: Warp2 bivariate causal direction ratios; ratio > 1 supports reversed link; 1 < ratio <= 1.3: weak support; 1.3 < ratio <= 1.7: medium; 1.7 < ratio: strong.

Warp2 bivariate causal direction differences

--------------------------------------------

X Y1 Y2 Y3

Y1 0.036

Y2 0.028 0.009

Y3 0.006 0.000 0.001

Note: absolute Warp2 bivariate causal direction differences.

P values for Warp2 bivariate causal direction differences

---------------------------------------------------------

X Y1 Y2 Y3

Y1 0.345

Y2 0.380 0.461

Y3 0.475 0.500 0.498

Note: P values for absolute Warp2 bivariate causal direction differences.

Warp3 bivariate causal direction ratios

---------------------------------------

X Y1 Y2 Y3

Y1 1.073

Y2 1.056 0.999

Y3 0.667 0.981 1.047

Notes: Warp3 bivariate causal direction ratios; ratio > 1 supports reversed link; 1 < ratio <= 1.3: weak support; 1.3 < ratio <= 1.7: medium; 1.7 < ratio: strong.

Warp3 bivariate causal direction differences

--------------------------------------------

X Y1 Y2 Y3

Y1 0.042

Y2 0.023 0.001

Y3 0.088 0.007 0.021

Note: absolute Warp3 bivariate causal direction differences.

P values for Warp3 bivariate causal direction differences

---------------------------------------------------------

X Y1 Y2 Y3

Y1 0.322

Y2 0.402 0.497

Y3 0.165 0.470 0.410

Note: P values for absolute Warp3 bivariate causal direction differences.