**Initial expectations do never predict change in health behavior while initial behavior predicted, in part, change in expectations. In the models, expectations at posttest were never predicted by the initial level of expectations, thus indicating low correlational stability.**

**The negative signs in the analysis on physical activity are irritating. May they be based on a non-intuitive coding of the direction of physical activity?**

**Eating**

Observed variables

Eat1 Eat2 Exp1 Exp2

Correlation Matrix

1.00

.238 1.00

.615 .172 1.00

.122 .786 .14 1.00

Sample size 162

Relationships

Eat2 = Eat1 Exp1

Exp2= Exp1 Eat1

Let the errors of Eat2 and Exp2 correlate

End of problem

Sample Size = 162

Eating

Correlation Matrix

Eat2 Exp2 Eat1 Exp1

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

Eat2 1.00

Exp2 0.79 1.00

Eat1 0.24 0.12 1.00

Exp1 0.17 0.14 0.61 1.00

**Eating**

Number of Iterations = 0

LISREL Estimates (Maximum Likelihood)

Structural Equations

Eat2 = **0.21\*Eat1** + 0.041\*Exp1, Errorvar.= 0.94 , R² = 0.058

(0.098) (0.098) (0.11)

2.18 0.42 8.92

Exp2 = 0.058\*Eat1 + 0.10\*Exp1, Errorvar.= 0.98 , R² = 0.022

(0.099) (0.099) (0.11)

0.58 1.05 8.92

Error Covariance for Exp2 and Eat2 = 0.75

(0.097)

7.79

**Eating shows some correlational stability, and eating2 and expectations2 are correlated. But initial expectations do not predict change in eating and initial eating does not predict change in expectations.**

Correlation Matrix of Independent Variables

Eat1 Exp1

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

Eat1 1.00

(0.11)

8.92

Exp1 0.61 1.00

(0.09) (0.11)

6.61 8.92

Covariance Matrix of Latent Variables

Eat2 Exp2 Eat1 Exp1

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

Eat2 1.00

Exp2 0.79 1.00

Eat1 0.24 0.12 1.00

Exp1 0.17 0.14 0.61 1.00

Goodness of Fit Statistics

Degrees of Freedom = 0

Minimum Fit Function Chi-Square = 0.0 (P = 1.00)

Normal Theory Weighted Least Squares Chi-Square = 0.00 (P = 1.00)

The Model is Saturated, the Fit is Perfect !

Time used: 0.000 Seconds

DATE: 7/26/2021

TIME: 16:01

L I S R E L 8.80

BY

Karl G. Jöreskog & Dag Sörbom

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The following lines were read from file H:\pinquart\Gesualdo\Physical.LS8:

**Unhealthy Physical Activity**

Observed variables

Physic1 Physic2 Exp1 Exp2

Correlation Matrix

1.00

-.265 1.00

.776 -.177 1.00

-.288 .814 -.253 1.00

Sample size 163

Relationships

Physic2 = Physic1 Exp1

Exp2= Exp1 Physic1

Let the errors of Physic2 and Exp2 correlate

End of problem

Sample Size = 163

Unhealthy Physical Activity

Correlation Matrix

Physic2 Exp2 Physic1 Exp1

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

Physic2 1.00

Exp2 0.81 1.00

Physic1 -0.27 -0.29 1.00

Exp1 -0.18 -0.25 0.78 1.00

Unhealthy Physical Activity

Number of Iterations = 0

LISREL Estimates (Maximum Likelihood)

Structural Equations

Physic2 = **- 0.32\*Physic1** + 0.072\*Exp1, Errorvar.= 0.93 , R² = 0.072

(0.12) (0.12) (0.10)

-2.66 0.60 8.94

Exp2 = **- 0.23\*Physic1** - 0.074\*Exp1, Errorvar.= 0.91 , R² = 0.085

(0.12) (0.12) (0.10)

-1.92 -0.62 8.94

Error Covariance for Exp2 and Physic2 = 0.74

(0.093)

7.92

Correlation Matrix of Independent Variables

Physic1 Exp1

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

Physic1 1.00

(0.11)

8.94

Exp1 0.78 1.00

(0.10) (0.11)

7.75 8.94

Covariance Matrix of Latent Variables

Physic2 Exp2 Physic1 Exp1

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

Physic2 1.00

Exp2 0.81 1.00

Physic1 -0.26 -0.29 1.00

Exp1 -0.18 -0.25 0.78 1.00

Goodness of Fit Statistics

Degrees of Freedom = 0

Minimum Fit Function Chi-Square = 0.00 (P = 1.00)

Normal Theory Weighted Least Squares Chi-Square = 0.00 (P = 1.00)

The Model is Saturated, the Fit is Perfect !

Time used: 0.016 Seconds

DATE: 7/26/2021

TIME: 16:08

L I S R E L 8.80

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The following lines were read from file H:\pinquart\Gesualdo\Heavydrinking.LS8:

**“Heavy” Drinking**

Observed variables

Drink1 Drink2 Exp1 Exp2

Correlation Matrix

1.00

.379 1.00

.756 .317 1.00

.293 .683 .211 1.00

Sample size 163

Relationships

Drink2 = Drink1 Exp1

Exp2= Exp1 Drink1

Let the errors of Drink2 and Exp2 correlate

End of problem

Sample Size = 163

Heavy Drinking

Correlation Matrix

Drink2 Exp2 Drink1 Exp1

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

Drink2 1.00

Exp2 0.68 1.00

Drink1 0.38 0.29 1.00

Exp1 0.32 0.21 0.76 1.00

Heavy Drinking

Number of Iterations = 0

LISREL Estimates (Maximum Likelihood)

Structural Equations

Drink2 = **0.33\*Drink1** + 0.071\*Exp1, Errorvar.= 0.85 , R² = 0.15

(0.11) (0.11) (0.096)

2.91 0.64 8.94

Exp2 = **0.31\*Drink1** - 0.025\*Exp1, Errorvar.= 0.91 , R² = 0.086

(0.12) (0.12) (0.10)

2.70 -0.21 8.94

Error Covariance for Exp2 and Drink2 = 0.57

(0.083)

6.88

**Heavy drinking shows some correlational stability and change in expectations at posttest is predicted by heavy drinking at pretest. Expectations at t2 and drinking at t2 were also correlated.**

Correlation Matrix of Independent Variables

Drink1 Exp1

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

Drink1 1.00

(0.11)

8.94

Exp1 0.76 1.00

(0.10) (0.11)

7.63 8.94

Covariance Matrix of Latent Variables

Drink2 Exp2 Drink1 Exp1

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

Drink2 1.00

Exp2 0.68 1.00

Drink1 0.38 0.29 1.00

Exp1 0.32 0.21 0.76 1.00

Goodness of Fit Statistics

Degrees of Freedom = 0

Minimum Fit Function Chi-Square = 0.0 (P = 1.00)

Normal Theory Weighted Least Squares Chi-Square = 0.00 (P = 1.00)

The Model is Saturated, the Fit is Perfect !

Time used: 0.000 Seconds

DATE: 7/26/2021

TIME: 16:13

L I S R E L 8.80

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The following lines were read from file H:\pinquart\Gesualdo\Bingedrinking.LS8:

**Binge drinking**

Observed variables

Binge1 Binge2 Exp1 Exp2

Correlation Matrix

1.00

.38 1.00

.773 .337 1.00

.432 .768 .375 1.00

Sample size 163

Relationships

Binge2 = Binge1 Exp1

Exp2= Exp1 Binge1

Let the errors of Binge2 and Exp2 correlate

End of problem

Sample Size = 163

Binge drinking

Correlation Matrix

Binge2 Exp2 Binge1 Exp1

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

Binge2 1.00

Exp2 0.77 1.00

Binge1 0.38 0.43 1.00

Exp1 0.34 0.38 0.77 1.00

Binge drinking

Number of Iterations = 0

LISREL Estimates (Maximum Likelihood)

Structural Equations

Binge2 = **0.30\*Binge1** + 0.11\*Exp1, Errorvar.= 0.85 , R² = 0.15

(0.11) (0.11) (0.095)

2.58 0.94 8.94

Exp2 = **0.35\*Binge1** + 0.10\*Exp1, Errorvar.= 0.81 , R² = 0.19

(0.11) (0.11) (0.090)

3.15 0.91 8.94

Error Covariance for Exp2 and Binge2 = 0.60

(0.081)

7.41

Correlation Matrix of Independent Variables

Binge1 Exp1

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

Binge1 1.00

(0.11)

8.94

Exp1 0.77 1.00

(0.10) (0.11)

7.74 8.94

Covariance Matrix of Latent Variables

Binge2 Exp2 Binge1 Exp1

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

Binge2 1.00

Exp2 0.77 1.00

Binge1 0.38 0.43 1.00

Exp1 0.34 0.38 0.77 1.00

Goodness of Fit Statistics

Degrees of Freedom = 0

Minimum Fit Function Chi-Square = 0.0 (P = 1.00)

Normal Theory Weighted Least Squares Chi-Square = 0.00 (P = 1.00)

The Model is Saturated, the Fit is Perfect !

Time used: 0.000 Seconds