**ALL**

**Bootstrap results Number of obs = 36**

**Replications = 1,000**

**command: summarize BMICa0, det**

**\_bs\_1: r(skewness)**

**\_bs\_2: r(kurtosis)**

**------------------------------------------------------------------------------**

**| Observed Bootstrap Normal-based**

**| Coef. Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

**\_bs\_1 | 1.716598 .6343338 2.71 0.007 .4733264 2.959869**

**\_bs\_2 | 6.986384 2.599888 2.69 0.007 1.890696 12.08207**

**----------------------------------------------------------------------------**

**UnMarried**

**Bootstrap results Number of obs = 16**

**Replications = 1,000**

**command: summarize BMICa0, det**

**\_bs\_1: r(skewness)**

**\_bs\_2: r(kurtosis)**

**------------------------------------------------------------------------------**

**| Observed Bootstrap Normal-based**

**| Coef. Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

**\_bs\_1 | -.0148387 .4194667 -0.04 0.972 -.8369783 .8073009**

**\_bs\_2 | 1.515828 .410243 3.69 0.000 .7117664 2.319889**

**------------------------------------------------------------------------------**

**Married**

**Bootstrap results Number of obs = 20**

**Replications = 1,000**

**command: summarize BMICa0, det**

**\_bs\_1: r(skewness)**

**\_bs\_2: r(kurtosis)**

**------------------------------------------------------------------------------**

**| Observed Bootstrap Normal-based**

**| Coef. Std. Err. z P>|z| [95% Conf. Interval]**

**-------------+----------------------------------------------------------------**

**\_bs\_1 | 1.539829 .5361251 2.87 0.004 .4890433 2.590615**

**\_bs\_2 | 5.160547 1.927927 2.68 0.007 1.381881 8.939214**

**------------------------------------------------------------------------------**

**1 group 1 variable**

**SEMJaccApp\_a2 <- '**

**+ BMICa0~1**

**+ '**

**> fit <- sem(SEMJaccApp\_a2, data = dpp36)**

**> summary(fit, standardized = TRUE, rsq = T)**

**lavaan 0.6-3 ended normally after 8 iterations**

**Optimization method NLMINB**

**Number of free parameters 2**

**Number of observations 36**

**Estimator ML**

**Model Fit Test Statistic 0.000**

**Degrees of freedom 0**

**Parameter Estimates:**

**Information Expected**

**Information saturated (h1) model Structured**

**Standard Errors Standard**

**Intercepts:**

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

**BMICa0 32.877 1.014 32.413 0.000 32.877 5.402**

**Variances:**

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

**BMICa0 37.038 8.730 4.243 0.000 37.038 1.000**

**--**

**2 group**

**> fit <- sem(SEMJaccApp\_a2,**

**+ data = dpp36,**

**+ group = "married")**

**> summary(fit)**

**lavaan 0.6-3 ended normally after 15 iterations**

**Optimization method NLMINB**

**Number of free parameters 4**

**Number of observations per group**

**0 16**

**1 20**

**Estimator ML**

**Model Fit Test Statistic 0.000**

**Degrees of freedom 0**

**Chi-square for each group:**

**0 0.000**

**1 0.000**

**Parameter Estimates:**

**Information Expected**

**Information saturated (h1) model Structured**

**Standard Errors Standard**

**Group 1 [0]:**

**Intercepts:**

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

**BMICa0 30.568 0.929 32.917 0.000**

**Variances:**

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

**BMICa0 13.798 4.878 2.828 0.005**

**Group 2 [1]:**

**Intercepts:**

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

**BMICa0 34.723 1.549 22.424 0.000**

**Variances:**

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

**BMICa0 47.958 15.166 3.162 0.002**

**2 group equality of intercepts/means imposed:**

**Compare the 2 models:**

**> cbind(diffmeans=inspect(fitdif , 'fit.measures'), EQmeans=inspect(fiteq , 'fit.measures'))**

**diffmeans EQmeans**

**npar 2.000000e+00 3.00000000**

**fmin 0.000000e+00 0.06793216**

**chisq 0.000000e+00 4.89111581**

**df 0.000000e+00 1.00000000**

**pvalue NA 0.02699523**

**baseline.chisq 0.000000e+00 0.00000000**

**baseline.df 0.000000e+00 0.00000000**

**baseline.pvalue NA NA**

**cfi 1.000000e+00 0.00000000**

**tli 1.000000e+00 1.00000000**

**nnfi 1.000000e+00 1.00000000**

**rfi 1.000000e+00 NA**

**nfi NA NA**

**pnfi NA NA**

**ifi NA 1.00000000**

**rni NA NA**

**logl -1.160970e+02 -113.22696051**

**unrestricted.logl -1.160970e+02 -110.78140260**

**aic 2.361941e+02 232.45392101**

**bic 2.393611e+02 237.20447783**

**ntotal 3.600000e+01 36.00000000**

**bic2 2.331131e+02 227.83251800**

**rmsea 0.000000e+00 0.46494419**

**rmsea.ci.lower 0.000000e+00 0.12656915**

**rmsea.ci.upper 0.000000e+00 0.90897181**

**rmsea.pvalue NA 0.03046084**

**rmr 7.554833e-09 4.53316930**

**rmr\_nomean 1.068415e-08 5.95528833**

**srmr 2.039724e-10 0.28442301**

**srmr\_bentler 2.039724e-10 0.28442301**

**srmr\_bentler\_nomean 2.884606e-10 0.14745011**

**crmr 7.791439e-10 0.49069852**

**crmr\_nomean NA NA**

**srmr\_mplus 5.874839e-10 0.37308166**

**srmr\_mplus\_nomean 2.884606e-10 0.14745011**

**cn\_05 NA 29.27422679**

**cn\_01 NA 49.83472139**

**gfi 1.000000e+00 0.99462861**

**agfi 1.000000e+00 0.97851444**

**pgfi 0.000000e+00 0.24865715**

**mfi 1.000000e+00 0.94739111**

**ecvi 1.111111e-01 3.00000000**

**> anova(fitdif,fiteq )**

**Chi Square Difference Test**

**Df AIC BIC Chisq Chisq diff Df diff Pr(>Chisq)**

**fitdif 0 236.19 239.36 0.0000**

**fiteq 1 232.45 237.20 4.8911 4.8911 1 0.027 \***

**---**

**Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1**

**2 group regression**

**SEMJaccApp\_d <- '**

**fg0 ~ BMICa0**

**'**

**fit <- sem(SEMJaccApp\_d,**

**data = dpp36,**

**group = "married")**

**summary(fit, standardized = TRUE, rsq = T)**

**lavaan 0.6-3 ended normally after 31 iterations**

**Optimization method NLMINB**

**Number of free parameters 6**

**Number of observations per group**

**0 16**

**1 20**

**Estimator ML**

**Model Fit Test Statistic 0.000**

**Degrees of freedom 0**

**Minimum Function Value 0.0000000000000**

**Chi-square for each group:**

**0 0.000**

**1 0.000**

**Parameter Estimates:**

**Information Expected**

**Information saturated (h1) model Structured**

**Standard Errors Standard**

**Group 1 [0]:**

**Regressions:**

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

**fg0 ~**

**BMICa0 0.278 0.733 0.379 0.705 0.278 0.094**

**Intercepts:**

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

**.fg0 86.696 22.569 3.841 0.000 86.696 7.926**

**Variances:**

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

**.fg0 118.588 41.927 2.828 0.005 118.588 0.991**

**R-Square:**

**Estimate**

**fg0 0.009**

**Group 2 [1]:**

**Regressions:**

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

**fg0 ~**

**BMICa0 -0.421 0.493 -0.853 0.393 -0.421 -0.187**

**Intercepts:**

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

**.fg0 109.206 17.453 6.257 0.000 109.206 7.027**

**Variances:**

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

**.fg0 233.055 73.698 3.162 0.002 233.055 0.965**

**R-Square:**

**Estimate**

**fg0 0.035**