

RAW differences in depression = dsm\_mder; blvsw== 0 = White, blvsw== 1=Black)

| RECODE of<br>blvsw | dsm_mder |       | Total  |
|--------------------|----------|-------|--------|
|                    | 0        | 1     |        |
| 0                  | 116      | 27    | 143    |
|                    | 81.12    | 18.88 | 100.00 |
| 1                  | 64       | 27    | 91     |
|                    | 70.33    | 29.67 | 100.00 |
| Total              | 180      | 54    | 234    |
|                    | 76.92    | 23.08 | 100.00 |

Pearson chi2(1) = 3.6468 Pr = 0.056

T-test for depression by White/Black

. ttest dsm\_mder , by(blvsw)

Two-sample t test with equal variances

| Group    | Obs | Mean     | Std. Err. | Std. Dev. | [95% Conf. Interval] |          |
|----------|-----|----------|-----------|-----------|----------------------|----------|
| 0        | 91  | .2967033 | .0481514  | .4593354  | .2010421             | .3923645 |
| 1        | 143 | .1888112 | .0328421  | .3927342  | .1238886             | .2537338 |
| combined | 234 | .2307692 | .0276019  | .4222282  | .176388              | .2851505 |
| diff     |     | .1078921 | .0562976  |           | -.0030277            | .2188119 |

diff = mean(0) - mean(1)

Ho: diff = 0

t = 1.9165

degrees of freedom = 232

Ha: diff < 0

Pr(T < t) = 0.9717

Ha: diff != 0

Pr(|T| > |t|) = 0.0565

Ha: diff > 0

Pr(T > t) = 0.0283

McNemar test for the paired Black/White N=61 pairs for depression

Total | 61 100.00  
. mcci 3 16 9 31

| Cases     | Controls |           | Total |
|-----------|----------|-----------|-------|
|           | Exposed  | Unexposed |       |
| Exposed   | 3        | 16        | 19    |
| Unexposed | 9        | 31        | 40    |
| Total     | 12       | 47        | 59    |

McNemar's chi2(1) = 1.96 Prob > chi2 = 0.1615

Exact McNemar significance probability = 0.2295

Proportion with factor

|            |          |                      |          |         |
|------------|----------|----------------------|----------|---------|
| Cases      | .3220339 | [95% Conf. Interval] |          |         |
| Controls   | .2033898 |                      |          |         |
| difference | .1186441 | -.0616215            | .2989096 |         |
| ratio      | 1.583333 | .8273921             | 3.029935 |         |
| rel. diff. | .1489362 | -.0434179            | .3412902 |         |
| odds ratio | 1.777778 | .7397548             | 4.564309 | (exact) |

## 2ND OPTION:

\* McNemar can be run in MATCHED WIDE=Horizontal data: \* Paired and Matched Binary Data

<http://health.bsd.uchicago.edu/thisted/hs327/Handouts/0717-Matching.pdf>

```
. mcc dsm_mder0 dsm_mder1
```

| Cases     | Controls |           |       |
|-----------|----------|-----------|-------|
|           | Exposed  | Unexposed | Total |
| Exposed   | 3        | 16        | 19    |
| Unexposed | 9        | 31        | 40    |
| Total     | 12       | 47        | 59    |

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Exact McNemar significance probability = 0.2295

### Proportion with factor

|            |          |                      |                  |
|------------|----------|----------------------|------------------|
| Cases      | .3220339 |                      |                  |
| Controls   | .2033898 | [95% Conf. Interval] |                  |
| difference | .1186441 | -.0616215            | .2989096         |
| ratio      | 1.583333 | .8273921             | 3.029935         |
| rel. diff. | .1489362 | -.0434179            | .3412902         |
| odds ratio | 1.777778 | .7397548             | 4.564309 (exact) |

```
symmetry dsm_mder0 dsm_mder1
```

| dsm_mder | 0  | 1  | Total |
|----------|----|----|-------|
| 0        | 31 | 9  | 40    |
| 1        | 16 | 3  | 19    |
| Total    | 47 | 12 | 59    |

|                                       | chi2 | df | Prob>chi2 |
|---------------------------------------|------|----|-----------|
| Symmetry (asymptotic)                 | 1.96 | 1  | 0.1615    |
| Marginal homogeneity (Stuart-Maxwell) | 1.96 | 1  | 0.1615    |

Logit regression with covariates (DV is dsm\_mder, blvsw== 0 = White, blvsw== 1=Black)

```
. logit dsm_mder ageC i.employ4 i.educ_cat i.mar_cat if blvsw== 0, or
```

Iteration 4: log likelihood = -49.478486

Logistic regression

Number of obs = 88  
LR chi2(9) = 7.87  
Prob > chi2 = 0.5474  
Pseudo R2 = 0.0737

Log likelihood = -49.478486

| dsm_mder                     | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |
|------------------------------|------------|-----------|-------|-------|----------------------|
| ageC                         | .9575861   | .0837906  | -0.50 | 0.620 | .8066704 1.136736    |
| employ4                      |            |           |       |       |                      |
| homemaker                    | .7343438   | .5571957  | -0.41 | 0.684 | .1659724 3.249099    |
| part-time                    | .1581924   | .1338212  | -2.18 | 0.029 | .0301385 .8303296    |
| fulltime                     | .3891729   | .2426198  | -1.51 | 0.130 | .1146788 1.320694    |
| educ_cat                     |            |           |       |       |                      |
| Grade = 12                   | 1.51423    | .9128101  | 0.69  | 0.491 | .4645898 4.935308    |
| f Grade > 12                 | 1.060714   | .8848526  | 0.07  | 0.944 | .2067863 5.440949    |
| mar_cat                      |            |           |       |       |                      |
| co-hab                       | 1.349861   | .967305   | 0.42  | 0.675 | .3313764 5.498657    |
| not married w/ boyfriend     | 1.27237    | 1.078574  | 0.28  | 0.776 | .2415792 6.701431    |
| no not married w/o boyfriend | 2.253617   | 1.804069  | 1.02  | 0.310 | .4693265 10.82144    |

|       |  |         |          |       |       |          |          |
|-------|--|---------|----------|-------|-------|----------|----------|
| _cons |  | .424818 | .3112403 | -1.17 | 0.243 | .1010591 | 1.785791 |
|-------|--|---------|----------|-------|-------|----------|----------|

Logit regression with covariates (DV is dsm\_mder, blvsw== 0 = White, blvsw== 1=Black)  
 . logit dsm\_mder ageC i.employ4 i.educ\_cat i.mar\_cat if blvsw== 1, or

Iteration 0: log likelihood = -69.072652

Iteration 4: log likelihood = -60.692839

|                             |               |   |        |
|-----------------------------|---------------|---|--------|
| Logistic regression         | Number of obs | = | 142    |
|                             | LR chi2(9)    | = | 16.76  |
|                             | Prob > chi2   | = | 0.0526 |
| Log likelihood = -60.692839 | Pseudo R2     | = | 0.1213 |

| dsm_mder                     | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|------------------------------|------------|-----------|-------|-------|----------------------|----------|
| ageC                         | 1.159488   | .082431   | 2.08  | 0.037 | 1.008677             | 1.332847 |
| employ4                      |            |           |       |       |                      |          |
| homemaker                    | .9943897   | .8468647  | -0.01 | 0.995 | .1873428             | 5.278082 |
| part-time                    | .7829729   | .5568095  | -0.34 | 0.731 | .1942748             | 3.155563 |
| fulltime                     | .5859883   | .3243795  | -0.97 | 0.334 | .198015              | 1.734123 |
| educ_cat                     |            |           |       |       |                      |          |
| Grade = 12                   | .5488244   | .306535   | -1.07 | 0.283 | .1836587             | 1.640043 |
| f Grade > 12                 | 2.084921   | 1.283636  | 1.19  | 0.233 | .6237713             | 6.968735 |
| mar_cat                      |            |           |       |       |                      |          |
| co-hab                       | .2968817   | .2766206  | -1.30 | 0.192 | .047805              | 1.843714 |
| not married w/ boyfriend     | .2370076   | .1958496  | -1.74 | 0.081 | .0469221             | 1.197145 |
| no not married w/o boyfriend | .2996834   | .2654097  | -1.36 | 0.174 | .0528214             | 1.700261 |
| _cons                        | .8851557   | .7644324  | -0.14 | 0.888 | .162896              | 4.80982  |

Logit regression with covariates (DV is dsm\_mder, blvsw== 0 = White, blvsw== 1=Black)  
 . logit dsm\_mder whvsbl ageC i.employ4 i.educ\_cat i.mar\_cat , or

Iteration 0: log likelihood = -124.15427

Iteration 1: log likelihood = -117.59841

Iteration 2: log likelihood = -117.43767

Iteration 3: log likelihood = -117.4375

Iteration 4: log likelihood = -117.4375

|                            |               |   |        |
|----------------------------|---------------|---|--------|
| Logistic regression        | Number of obs | = | 230    |
|                            | LR chi2(10)   | = | 13.43  |
|                            | Prob > chi2   | = | 0.2004 |
| Log likelihood = -117.4375 | Pseudo R2     | = | 0.0541 |

| dsm_mder                     | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|------------------------------|------------|-----------|-------|-------|----------------------|----------|
| whvsbl                       | 1.64538    | .5818554  | 1.41  | 0.159 | .8227271             | 3.29061  |
| ageC                         | 1.061899   | .0523098  | 1.22  | 0.223 | .9641672             | 1.169537 |
| employ4                      |            |           |       |       |                      |          |
| homemaker                    | .9870626   | .5317445  | -0.02 | 0.981 | .3433922             | 2.837259 |
| part-time                    | .4524338   | .2322648  | -1.54 | 0.122 | .1654154             | 1.237469 |
| fulltime                     | .5622227   | .2212096  | -1.46 | 0.143 | .260015              | 1.215677 |
| educ_cat                     |            |           |       |       |                      |          |
| Grade = 12                   | .9037925   | .3438931  | -0.27 | 0.790 | .4287326             | 1.905246 |
| f Grade > 12                 | 1.380755   | .6539803  | 0.68  | 0.496 | .5457002             | 3.49365  |
| mar_cat                      |            |           |       |       |                      |          |
| co-hab                       | .9197583   | .5068748  | -0.15 | 0.879 | .3123059             | 2.708739 |
| not married w/ boyfriend     | .6335744   | .3507736  | -0.82 | 0.410 | .2140604             | 1.875248 |
| no not married w/o boyfriend | .985657    | .5496839  | -0.03 | 0.979 | .3303889             | 2.940534 |

```
_cons | .3708185 .2111687 -1.74 0.081 .1214593 1.132119
```

```
. logit dsm_mder, or /* check THE 'BASELINE GROUP ODDS */
```

```
Iteration 0: log likelihood = -126.40777
Iteration 1: log likelihood = -126.40777
```

```
Logistic regression                Number of obs    =      234
LR chi2(0)                        =      -0.00
Prob > chi2                        =      .
Log likelihood = -126.40777        Pseudo R2        =     -0.0000
```

| dsm_mder | Odds | Std. Err. | z     | P>z   | [95% Conf. Interval] |
|----------|------|-----------|-------|-------|----------------------|
| _cons    | .3   | .0465475  | -7.76 | 0.000 | .2213351 .4066232    |

```
. logit dsm_mder if whvsbl==0, or /* whvsbl==0=White whvsbl==1=Black */
```

```
Iteration 0: log likelihood = -69.282725
Iteration 1: log likelihood = -69.282725
```

```
Logistic regression                Number of obs    =      143
LR chi2(0)                        =      0.00
Prob > chi2                        =      .
Log likelihood = -69.282725        Pseudo R2        =     0.0000
```

| dsm_mder | Odds     | Std. Err. | z     | P> z  | [95% Conf. Interval] |
|----------|----------|-----------|-------|-------|----------------------|
| _cons    | .2327586 | .0497351  | -6.82 | 0.000 | .1531172 .3538243    |

```
. logit dsm_mder whvsbl, or /* TO SEE THE ORs or how much more ODDS Blacks than ODDS Whites */
```

```
Iteration 0: log likelihood = -126.40777
Iteration 1: log likelihood = -124.62703
Iteration 2: log likelihood = -124.61483
Iteration 3: log likelihood = -124.61483
```

```
Logistic regression                Number of obs    =      234
LR chi2(1)                        =      3.59
Prob > chi2                        =     0.0583
Log likelihood = -124.61483        Pseudo R2        =     0.0142
```

| dsm_mder | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |
|----------|------------|-----------|-------|-------|----------------------|
| whvsbl   | 1.8125     | .5683272  | 1.90  | 0.058 | .980337 3.351048     |
| _cons    | .2327586   | .0497351  | -6.82 | 0.000 | .1531172 .3538243    |

```
. logit dsm_mder if whvsbl==1, or /* whvsbl==0=White whvsbl==1=Black */
```

```
Iteration 0: log likelihood = -55.332102
Iteration 1: log likelihood = -55.332102
```

```
Logistic regression                Number of obs    =      91
LR chi2(0)                        =     -0.00
Prob > chi2                        =      .
Log likelihood = -55.332102        Pseudo R2        =     -0.0000
```

| dsm_mder | Odds    | Std. Err. | z     | P> z  | [95% Conf. Interval] |
|----------|---------|-----------|-------|-------|----------------------|
| _cons    | .421875 | .0968128  | -3.76 | 0.000 | .2690595 .661484     |

```
-----
. logit dsm_mder whvsbl if dyadMMM==., or /* TO SEE THE 'BASELINE=CONTROL GROUP ODDS */
```

```
Iteration 0: log likelihood = -55.91914
Iteration 1: log likelihood = -55.77586
Iteration 2: log likelihood = -55.775434
Iteration 3: log likelihood = -55.775434
```

```
Logistic regression                                Number of obs   =      114
                                                    LR chi2(1)      =       0.29
                                                    Prob > chi2     =     0.5919
Log likelihood = -55.775434                        Pseudo R2      =     0.0026
```

```
-----
      dsm_mder | Odds Ratio   Std. Err.      z    P>|z|     [95% Conf. Interval]
-----+-----
      whvsbl |   1.322222   .6818057     0.54   0.588    .4812616   3.632685
       _cons |   .2205882   .0629247    -5.30   0.000    .1261158   .3858291
-----
```

```
. ttest dsm_mder if match61==1, by(blvswh)
```

Two-sample t test with equal variances

```
-----
      Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
          0 |       60   .3333333   .0613716   .4753827    .210529   .4561377
          1 |       60   .2         .0520756   .4033756    .095797   .304203
-----+-----
combined |      120   .2666667   .0405379   .4440708    .1863975   .3469358
-----+-----
      diff |           .1333333   .0804882           -.0260551   .2927218
-----
      diff = mean(0) - mean(1)                                t =      1.6566
Ho: diff = 0                                                  degrees of freedom =      118

      Ha: diff < 0                      Ha: diff != 0                      Ha: diff > 0
Pr(T < t) = 0.9499                    Pr(|T| > |t|) = 0.1003                    Pr(T > t) = 0.0501
```

```
. ttest anx0 if match61==0, by(blvswh)
```

Two-sample t test with equal variances

```
-----
      Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
          0 |       23  15.13043   .4231649   2.029428    14.25284   16.00803
          1 |       60   13.75     .261055   2.022123    13.22763   14.27237
-----+-----
combined |       83  14.13253   .2311168   2.105574    13.67277   14.59229
-----+-----
      diff |           1.380435   .4964021           .3927503   2.368119
-----
      diff = mean(0) - mean(1)                                t =      2.7809
Ho: diff = 0                                                  degrees of freedom =      81

      Ha: diff < 0                      Ha: diff != 0                      Ha: diff > 0
Pr(T < t) = 0.9966                    Pr(|T| > |t|) = 0.0067                    Pr(T > t) = 0.0034
```

```
. ttest disomean , by(blvswh)
```

Two-sample t test with equal variances

```
-----
      Group |      Obs      Mean   Std. Err.   Std. Dev.   [95% Conf. Interval]
-----+-----
          0 |       56  -.1525456   .0768839   .5753464    -.3066244   .0015332
          1 |       85   .183892   .0750029   .6914928    .0347405   .3330435
```

```

-----+-----
combined |      141      .0502714      .0561303      .6665106      -.0607013      .1612441
-----+-----
diff |      - .3364376      .1115323      - .5569568      - .1159184
-----+-----
diff = mean(0) - mean(1)                                t = -3.0165
Ho: diff = 0                                           degrees of freedom = 139

Ha: diff < 0                                Ha: diff != 0                                Ha: diff > 0
Pr(T < t) = 0.0015                        Pr(|T| > |t|) = 0.0030                        Pr(T > t) = 0.9985

```

IN MATCHED DATA n=61 DYADIC

. ttest disomean0==disomean1

Paired t test

```

-----+-----
Variable |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
disome~0 |      21      -.2024293      .1319519      .6046794      -.477676      .0728175
disome~1 |      21      .1933944      .1353469      .6202374      -.0889343      .4757231
-----+-----
diff |      21      -.3958237      .1993738      .9136453      -.8117101      .0200627
-----+-----
mean(diff) = mean(disomean0 - disomean1)                t = -1.9853
Ho: mean(diff) = 0                                degrees of freedom = 20

Ha: mean(diff) < 0                                Ha: mean(diff) != 0                                Ha: mean(diff) > 0
Pr(T < t) = 0.0305                        Pr(|T| > |t|) = 0.0610                        Pr(T > t) = 0.9695

```

```

dsm_mder0==in WHITE women
dsm_mder0==in BLACK women
ttest dsm_mder0==dsm_mder1

```

Paired t test

```

-----+-----
Variable |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
dsm_md~0 |      59      .3220339      .0613537      .4712667      .1992211      .4448467
dsm_md~1 |      59      .2033898      .0528535      .4059752      .0975921      .3091876
-----+-----
diff |      59      .1186441      .0840415      .6455349      -.0495833      .2868714
-----+-----
mean(diff) = mean(dsm_mder0 - dsm_mder1)                t = 1.4117
Ho: mean(diff) = 0                                degrees of freedom = 58

Ha: mean(diff) < 0                                Ha: mean(diff) != 0                                Ha: mean(diff) > 0
Pr(T < t) = 0.9183                        Pr(|T| > |t|) = 0.1634                        Pr(T > t) = 0.0817

```

. ttest anx00c==anx01c

Paired t test

```

-----+-----
Variable |      Obs      Mean      Std. Err.      Std. Dev.      [95% Conf. Interval]
-----+-----
anx00c |      24      .092949      .4332741      2.122601      -.8033468      .9892448
anx01c |      24      .3910253      .3180367      1.558055      -.2668837      1.048934
-----+-----
diff |      24      -.2980763      .5229486      2.561914      -1.379878      .7837253
-----+-----
mean(diff) = mean(anx00c - anx01c)                t = -0.5700
Ho: mean(diff) = 0                                degrees of freedom = 23

Ha: mean(diff) < 0                                Ha: mean(diff) != 0                                Ha: mean(diff) > 0
Pr(T < t) = 0.2871                        Pr(|T| > |t|) = 0.5742                        Pr(T > t) = 0.7129

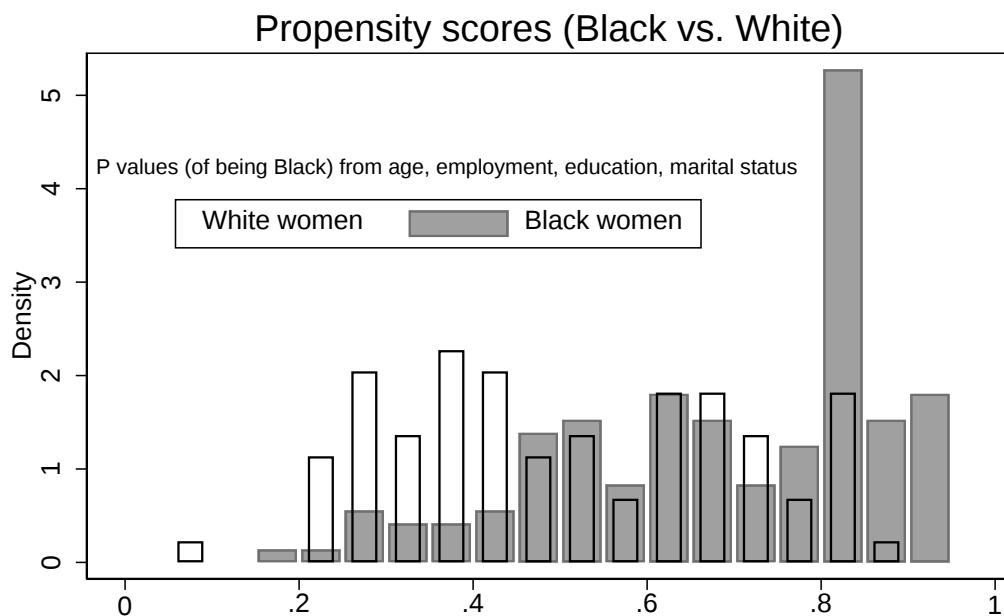
```

. ttest disomean0=disomean1

# Paired t test

| Variable                                 | Obs | Mean                   | Std. Err. | Std. Dev.               | [95% Conf. Interval] |          |
|------------------------------------------|-----|------------------------|-----------|-------------------------|----------------------|----------|
| disome~0                                 | 21  | -.2024293              | .1319519  | .6046794                | -.477676             | .0728175 |
| disome~1                                 | 21  | .1933944               | .1353469  | .6202374                | -.0889343            | .4757231 |
| diff                                     | 21  | -.3958237              | .1993738  | .9136453                | -.8117101            | .0200627 |
| mean(diff) = mean(disomean0 - disomean1) |     |                        |           | t = -1.9853             |                      |          |
| Ho: mean(diff) = 0                       |     |                        |           | degrees of freedom = 20 |                      |          |
| Ha: mean(diff) < 0                       |     | Ha: mean(diff) != 0    |           | Ha: mean(diff) > 0      |                      |          |
| Pr(T < t) = 0.0305                       |     | Pr( T  >  t ) = 0.0610 |           | Pr(T > t) = 0.9695      |                      |          |

The 61 matching results. With 4 covariates, thinner bars are White wome, gray bars are Black women.



```
. Classic regression:
reg BIS_Anxiety_AVG0 blvsw age dr_tp_30d0 i.employ4 i.educ_cat i.mar_cat /*income*/
clust15_on4 has 15 clusters, 1 with no cases of white women:
```

| educ    | blvsw |    | Total |
|---------|-------|----|-------|
| marital | 0     | 1  |       |
| 1       | 6     | 2  | 8     |
| 3       | 9     | 4  | 13    |
| 4       | 6     | 3  | 9     |
| 5       | 10    | 3  | 13    |
| 6       | 9     | 4  | 13    |
| 7       | 5     | 10 | 15    |
| 8       | 6     | 11 | 17    |
| 9       | 3     | 6  | 9     |
| 10      | 8     | 13 | 21    |
| 11      | 8     | 11 | 19    |
| 12      | 6     | 6  | 12    |
| 13      | 3     | 9  | 12    |

|                   |  |    |  |     |  |     |
|-------------------|--|----|--|-----|--|-----|
| 14                |  | 8  |  | 38  |  | 46  |
| 15                |  | 1  |  | 11  |  | 12  |
| 16                |  | 0  |  | 12  |  | 12  |
| -----+-----+----- |  |    |  |     |  |     |
| Total             |  | 88 |  | 143 |  | 231 |

"teffects uses gmm to compute the final results. Like any optimization routine, it takes starting values and then iterates to the solution. If you look at the iteration log you will find something like:" [Stata discussion](#)

#### Clustered regression

```
. xtlogit dsm_mder if whvsbl== 0|| clust15_on4: , or //
```

Mixed-effects logistic regression

Group variable: clust15\_on4

Number of obs = 229

Number of groups = 15

Obs per group:

min = 8

avg = 15.3

max = 45

Integration points = 7

Log likelihood = -122.227

Wald chi2(1) = 2.83

Prob > chi2 = 0.0923

| dsm_mder    |  | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |
|-------------|--|------------|-----------|-------|-------|----------------------|
| -----+----- |  |            |           |       |       |                      |
| blvswb      |  | .5765182   | .1886098  | -1.68 | 0.092 | .3036265 1.094678    |
| _cons       |  | .4158645   | .1013208  | -3.60 | 0.000 | .257968 .6704058     |

Note: \_cons estimates baseline odds (conditional on zero random effects).

| Random-effects Parameters |  | Estimate | Std. Err. | [95% Conf. Interval] |
|---------------------------|--|----------|-----------|----------------------|
| -----+-----               |  |          |           |                      |
| clust15_on4: Identity     |  |          |           |                      |
| sd(_cons)                 |  | .2012963 | .3619906  | .0059309 6.832023    |

LR test vs. logistic model: chibar2(01) = 0.09

Prob >= chibar2 = 0.3799

#### Clustered regression 141 Blacks only:

Mixed-effects logistic regression

Group variable: clust15\_on4

Number of obs = 141

Number of groups = 15

Obs per group:

min = 2

avg = 9.4

max = 37

Integration points = 7

Log likelihood = -67.948908

Wald chi2(0) = .

Prob > chi2 = .

| dsm_mder    |  | Odds     | Std. Err. | z     | P> z  | [95% Conf. Interval] |
|-------------|--|----------|-----------|-------|-------|----------------------|
| -----+----- |  |          |           |       |       |                      |
| _cons       |  | .2447559 | .0688085  | -5.01 | 0.000 | .1410698 .4246511    |

| Random-effects Parameters |  | Estimate | Std. Err. | [95% Conf. Interval] |
|---------------------------|--|----------|-----------|----------------------|
| -----+-----               |  |          |           |                      |
| clust15_on4: Identity     |  |          |           |                      |
| sd(_cons)                 |  | .5866403 | .3329702  | .1928589 1.784448    |

LR test vs. logistic model: chibar2(01) = 1.82

Prob >= chibar2 = 0.0884

#### Clustered regression

88 Whites only:

Mixed-effects logistic regression

Number of obs = 88

Outputs

1:1 depression appendix

Group variable: clust15\_on4                      Number of groups =            14

Obs per group:

|       |     |
|-------|-----|
| min = | 1   |
| avg = | 6.3 |
| max = | 10  |

Integration points = 7                      Wald chi2(0) = .

Log likelihood = -53.412798                      Prob > chi2 = .

|             |  |          |           |       |       |                      |
|-------------|--|----------|-----------|-------|-------|----------------------|
| dsm_mder    |  | Odds     | Std. Err. | z     | P> z  | [95% Conf. Interval] |
| -----+----- |  |          |           |       |       |                      |
| _cons       |  | .4193548 | .0979807  | -3.72 | 0.000 | .2652782 .6629209    |

|                           |  |          |           |                      |
|---------------------------|--|----------|-----------|----------------------|
| Random-effects Parameters |  | Estimate | Std. Err. | [95% Conf. Interval] |
| -----+-----               |  |          |           |                      |
| clust15_on4: Identity     |  |          |           |                      |
| sd(_cons)                 |  | 1.90e-09 | .524181   | 0 .                  |

LR test vs. logistic model: chibar2(01) = 0.00                      Prob >= chibar2 = 1.0000

Clustered regression

xtmelogit dsm\_mder whvsb1|| dyadMMM: , or /\* \*/ //

Refining starting values:

Iteration 0: log likelihood = -69.711133

Iteration 1: log likelihood = -68.564934

Iteration 2: log likelihood = -68.244595

Performing gradient-based optimization:

Iteration 0: log likelihood = -68.244595

Iteration 3: log likelihood = -68.214996

Mixed-effects logistic regression                      Number of obs = 120

Group variable: dyadMMM                      Number of groups = 61

Obs per group:

|       |     |
|-------|-----|
| min = | 1   |
| avg = | 2.0 |
| max = | 2   |

Integration points = 7                      Wald chi2(1) = 2.68

Log likelihood = -68.214996                      Prob > chi2 = 0.1015

|             |  |            |           |       |       |                      |
|-------------|--|------------|-----------|-------|-------|----------------------|
| dsm_mder    |  | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |
| -----+----- |  |            |           |       |       |                      |
| whvsb1      |  | 2          | .8465616  | 1.64  | 0.102 | .8724342 4.584873    |
| _cons       |  | .25        | .0806872  | -4.30 | 0.000 | .1328055 .4706132    |

Note: \_cons estimates baseline odds (conditional on zero random effects).

|                           |  |          |           |                      |
|---------------------------|--|----------|-----------|----------------------|
| Random-effects Parameters |  | Estimate | Std. Err. | [95% Conf. Interval] |
| -----+-----               |  |          |           |                      |
| dyadMMM: Identity         |  |          |           |                      |
| sd(_cons)                 |  | 1.18e-08 | .7595531  | 0 .                  |

LR test vs. logistic model: chibar2(01) = 0.00                      Prob >= chibar2 = 1.0000

. logit dsm\_mder if whvsb1== 0 , or /\* Black \*NO clustering WITHIN W or B!!!\*/

Iteration 0: log likelihood = -69.282725

Iteration 1: log likelihood = -69.282725

Logistic regression                      Number of obs = 143

LR chi2(0) = 0.00

Prob > chi2 = .

Log likelihood = -69.282725                      Pseudo R2 = 0.0000

| dsm_mder | Odds     | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|----------|----------|-----------|-------|-------|----------------------|----------|
| _cons    | .2327586 | .0497351  | -6.82 | 0.000 | .1531172             | .3538243 |

```
. logit dsm_mder if whvsbl== 1 , or /* White *NO clustering WITHIN W or B!!!*/
```

Iteration 0: log likelihood = -55.332102

Iteration 1: log likelihood = -55.332102

|                             |               |   |         |
|-----------------------------|---------------|---|---------|
| Logistic regression         | Number of obs | = | 91      |
|                             | LR chi2(0)    | = | -0.00   |
|                             | Prob > chi2   | = | .       |
| Log likelihood = -55.332102 | Pseudo R2     | = | -0.0000 |

| dsm_mder | Odds    | Std. Err. | z     | P> z  | [95% Conf. Interval] |         |
|----------|---------|-----------|-------|-------|----------------------|---------|
| _cons    | .421875 | .0968128  | -3.76 | 0.000 | .2690595             | .661484 |

Model for the unmatchable into dyads:

```
. tab whvsbl if dyadMMM== .
```

| RECODE of<br>blvsw | Freq. | Percent | Cum.   |
|--------------------|-------|---------|--------|
| 0                  | 84    | 73.04   | 73.04  |
| 1                  | 31    | 26.96   | 100.00 |
| Total              | 115   | 100.00  |        |

```
. logit dsm_mder whvsbl if dyadMMM== . , or
```

Iteration 0: log likelihood = -55.91914

Iteration 1: log likelihood = -55.77586

Iteration 2: log likelihood = -55.775434

Iteration 3: log likelihood = -55.775434

|                             |               |   |        |
|-----------------------------|---------------|---|--------|
| Logistic regression         | Number of obs | = | 114    |
|                             | LR chi2(1)    | = | 0.29   |
|                             | Prob > chi2   | = | 0.5919 |
| Log likelihood = -55.775434 | Pseudo R2     | = | 0.0026 |

| dsm_mder | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|----------|------------|-----------|-------|-------|----------------------|----------|
| whvsbl   | 1.322222   | .6818057  | 0.54  | 0.588 | .4812616             | 3.632685 |
| _cons    | .2205882   | .0629247  | -5.30 | 0.000 | .1261158             | .3858291 |

```
. logit dsm_mder if dyadMMM== . & whvsbl==0, or /* Black */
```

Iteration 0: log likelihood = -39.216493

Iteration 1: log likelihood = -39.216493

|                             |               |   |        |
|-----------------------------|---------------|---|--------|
| Logistic regression         | Number of obs | = | 83     |
|                             | LR chi2(0)    | = | 0.00   |
|                             | Prob > chi2   | = | .      |
| Log likelihood = -39.216493 | Pseudo R2     | = | 0.0000 |

| dsm_mder | Odds     | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|----------|----------|-----------|-------|-------|----------------------|----------|
| _cons    | .2205882 | .0629247  | -5.30 | 0.000 | .1261158             | .3858291 |

```
. logit dsm_mder if dyadMMM== . & whvsbl==1, or /*White*/
```

Iteration 0: log likelihood = -16.55894

Iteration 1: log likelihood = -16.55894

|                            |               |   |         |
|----------------------------|---------------|---|---------|
| Logistic regression        | Number of obs | = | 31      |
|                            | LR chi2(0)    | = | -0.00   |
|                            | Prob > chi2   | = | .       |
| Log likelihood = -16.55894 | Pseudo R2     | = | -0.0000 |

| dsm_mder | Odds     | Std. Err. | z     | P> z  | [95% Conf. Interval] |        |
|----------|----------|-----------|-------|-------|----------------------|--------|
| _cons    | .2916667 | .125289   | -2.87 | 0.004 | .1256732             | .67691 |

```
. logit dsm_mder whvsbl ageC i.employ4 i.educ_cat i.mar_cat if dyadMMM== ., or
```

Iteration 0: log likelihood = -55.703674  
 Iteration 1: log likelihood = -52.174923  
 Iteration 2: log likelihood = -52.00878  
 Iteration 3: log likelihood = -52.008154  
 Iteration 4: log likelihood = -52.008154

|                             |               |   |        |
|-----------------------------|---------------|---|--------|
| Logistic regression         | Number of obs | = | 113    |
|                             | LR chi2(10)   | = | 7.39   |
|                             | Prob > chi2   | = | 0.6881 |
| Log likelihood = -52.008154 | Pseudo R2     | = | 0.0663 |

| dsm_mder                     | Odds Ratio | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|------------------------------|------------|-----------|-------|-------|----------------------|----------|
| whvsbl                       | .96099     | .7075814  | -0.05 | 0.957 | .2269735             | 4.068764 |
| ageC                         | 1.116355   | .084001   | 1.46  | 0.144 | .9632815             | 1.293754 |
| employ4                      |            |           |       |       |                      |          |
| homemaker                    | .25405     | .3082017  | -1.13 | 0.259 | .0235657             | 2.738782 |
| part-time                    | .7328493   | .5064547  | -0.45 | 0.653 | .189134              | 2.839617 |
| fulltime                     | .5107403   | .304783   | -1.13 | 0.260 | .1585797             | 1.644949 |
| educ_cat                     |            |           |       |       |                      |          |
| Grade = 12                   | .8048461   | .459135   | -0.38 | 0.704 | .2631079             | 2.462022 |
| f Grade > 12                 | .8972994   | .8325809  | -0.12 | 0.907 | .1455893             | 5.530256 |
| mar_cat                      |            |           |       |       |                      |          |
| co-hab                       | .6675242   | .6286212  | -0.43 | 0.668 | .1054079             | 4.227279 |
| not married w/ boyfriend     | .3097302   | .3120383  | -1.16 | 0.245 | .0429971             | 2.231147 |
| no not married w/o boyfriend | .5255433   | .5676935  | -0.60 | 0.551 | .0632613             | 4.365952 |
| _cons                        | .8295378   | .8699049  | -0.18 | 0.859 | .1062217             | 6.47827  |

```
Propensity matching
psmatch2 whvsbl age i.employ4 i.educ_cat i.mar_cat , outcome (dsm_mder) common ate /*-2.48/0.41
306 of 313 matched!*/
```

|                             |               |   |        |
|-----------------------------|---------------|---|--------|
| Probit regression           | Number of obs | = | 230    |
|                             | LR chi2(9)    | = | 44.66  |
|                             | Prob > chi2   | = | 0.0000 |
| Log likelihood = -130.69464 | Pseudo R2     | = | 0.1459 |

| whvsbl     | Coef.     | Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|------------|-----------|-----------|-------|-------|----------------------|----------|
| age        | -.0684868 | .0288463  | -2.37 | 0.018 | -.1250245            | -.011949 |
| employ4    |           |           |       |       |                      |          |
| homemaker  | .3183986  | .3183482  | 1.00  | 0.317 | -.3055524            | .9423496 |
| part-time  | .4044835  | .2604296  | 1.55  | 0.120 | -.1059492            | .9149162 |
| fulltime   | .0249496  | .2162795  | 0.12  | 0.908 | -.3989504            | .4488496 |
| educ_cat   |           |           |       |       |                      |          |
| Grade = 12 | -.0459396 | .2115003  | -0.22 | 0.828 | -.4604725            | .3685934 |

|                              |  |           |          |       |       |           |           |
|------------------------------|--|-----------|----------|-------|-------|-----------|-----------|
| f Grade > 12                 |  | .6464417  | .270198  | 2.39  | 0.017 | .1168635  | 1.17602   |
| mar_cat                      |  |           |          |       |       |           |           |
| co-hab                       |  | -.3515176 | .3170399 | -1.11 | 0.268 | -.9729043 | .2698692  |
| not married w/ boyfriend     |  | -1.469985 | .3125524 | -4.70 | 0.000 | -2.082577 | -.8573934 |
| no not married w/o boyfriend |  | -.9199494 | .317925  | -2.89 | 0.004 | -1.543071 | -.2968279 |
| _cons                        |  | 1.890958  | .7454051 | 2.54  | 0.011 | .4299907  | 3.351925  |

There are observations with identical propensity score values.  
The sort order of the data could affect your results.  
Make sure that the sort order is random before calling psmatch2.

| Variable | Sample    | Treated    | Controls   | Difference | S.E.       | T-stat |
|----------|-----------|------------|------------|------------|------------|--------|
| dsm_mder | Unmatched | .295454545 | .190140845 | .1053137   | .056956018 | 1.85   |
|          | ATT       | .298850575 | .149425287 | .149425287 | .07715606  | 1.94   |
|          | ATU       | .181818182 | .314049587 | .132231405 | .          | .      |
|          | ATE       |            |            | .139423077 | .          | .      |

Note: S.E. does not take into account that the propensity score is estimated.

|                      |                          |           |       |
|----------------------|--------------------------|-----------|-------|
| psmatch2:            | psmatch2: Common support |           |       |
| Treatment assignment | Off suppo                | On suppor | Total |
| Untreated            | 21                       | 121       | 142   |
| Treated              | 1                        | 87        | 88    |
| Total                | 22                       | 208       | 230   |

. teffects psmatch (dsm\_mder) (whvsbl age i.employ4 i.educ\_cat i.mar\_cat ) LOGIT default

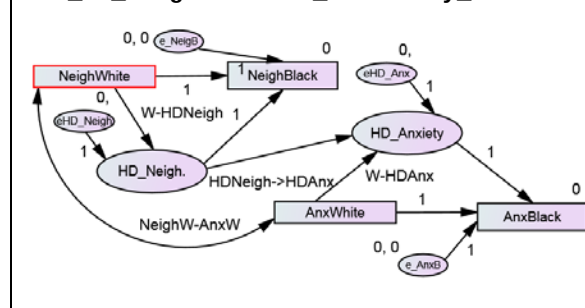
Treatment-effects estimation      Number of obs      =      230  
Estimator      : propensity-score matching      Matches: requested =      1  
Outcome model : matching      min =      1  
Treatment model: logit      max =      5

| dsm_mder | Coef.    | AI Robust Std. Err. | z    | P> z  | [95% Conf. Interval] |
|----------|----------|---------------------|------|-------|----------------------|
| ATE      |          |                     |      |       |                      |
| whvsbl   |          |                     |      |       |                      |
| (1 vs 0) | .1507246 | .1047891            | 1.44 | 0.150 | -.0546583 .3561075   |

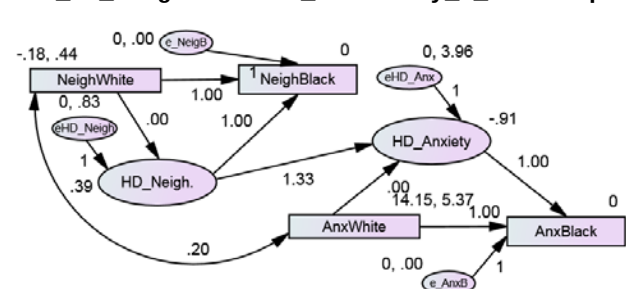
Illustration of the LDS/LCS model in AMOS with 2 'difference/disparities' variables: Neighborhood Disorder=Neigh. And Anxiety =Anx (for B=Black and W=White women)Amos

Neighborhood disorder: 0=for White women; 1=for Black women  
Anxiety:      0=for White women; 1=for Black women

Input: 1's and 0's are FIXED parameters  
LDS\_61\_NeighDisorder\_toAnxiety\_v5.amw



Output graphical results of estimation  
LDS\_61\_NeighDisorder\_toAnxiety\_1.AmosOutput  
LDS\_61\_NeighDisorder\_toAnxiety\_1\_AmosOutput.pdf



Regression Weights: (Matched61pairs - AllEst)

|                 | StandEst. | UnstandEst. | S.E. | C.R.  | P    | Label          |
|-----------------|-----------|-------------|------|-------|------|----------------|
| X1Neigh → X2Anx | .519      | 1.331       | .498 | 2.674 | .007 | HDNeigh->HDAnx |

Mplus output of HD(Neighborhood disorder)->HD(Anxiety)  
lds\_anxhd on neighhd\_propgr0.out

define:

```
x10=disomean0 ; ! Whites Neighborhood disorder
x11=disomean1 ; ! Blacks Neighborhood disorder
```

```
x20=anx00c ; ! Whites Anxiety
x21=anx01c ; ! Blacks Anxiety
```

model:

! X1 part

x1LdsBW by x11;

x11@0;

[x11@0];

x11 on x10 @1;

[x1LdsBW];

x1LdsBW ;

x10 with x1LdsBW@0; !this can be relaxed: estimated

! X2 part

x2LdsBW by x21;

x21@0;

[x21@0];

x21 on x20 @1;

[x2LdsBW];

x2LdsBW ;

x20 with x2LdsBW@0; !this can be relaxed: estimated

! ~~~ \*\*\*\*\*Bivariate \*\*\*\*\*

x2LdsBW on x1LdsBW;

X20 WITH X1LDSBW @0; !Mplus estimates them otherwise

output: sampstat stand tech4 tech9;

R-SQUARE

| Latent Variable | Estimate | S.E.  | Est./S.E. | Two-Tailed P-Value |
|-----------------|----------|-------|-----------|--------------------|
| X2LDSBW         | 0.412    | 0.175 | 2.353     | 0.019              |

MODEL RESULTS

|            | Estimate | S.E.  | Est./S.E. | Two-Tailed P-Value |
|------------|----------|-------|-----------|--------------------|
| X1LDSBW BY |          |       |           |                    |
| X11        | 1.000    | 0.000 | 999.000   | 999.000            |
| X2LDSBW BY |          |       |           |                    |
| X21        | 1.000    | 0.000 | 999.000   | 999.000            |
| X2LDSBW ON |          |       |           |                    |
| X1LDSBW    | 1.813    | 0.439 | 4.129     | 0.000              |
| X11 ON     |          |       |           |                    |
| X10        | 1.000    | 0.000 | 999.000   | 999.000            |
| X21 ON     |          |       |           |                    |
| X20        | 1.000    | 0.000 | 999.000   | 999.000            |
| X10 WITH   |          |       |           |                    |
| X1LDSBW    | 0.000    | 0.000 | 999.000   | 999.000            |
| X20 WITH   |          |       |           |                    |
| X2LDSBW    | 0.000    | 0.000 | 999.000   | 999.000            |

|                    |        |       |         |         |
|--------------------|--------|-------|---------|---------|
| X1LDSBW            | 0.000  | 0.000 | 999.000 | 999.000 |
| X20 WITH           |        |       |         |         |
| X10                | 0.304  | 0.254 | 1.197   | 0.231   |
| Means              |        |       |         |         |
| X10                | -0.015 | 0.100 | -0.146  | 0.884   |
| X20                | -0.095 | 0.346 | -0.275  | 0.783   |
| X1LDSBW            | 0.313  | 0.149 | 2.099   | 0.036   |
| Intercepts         |        |       |         |         |
| X11                | 0.000  | 0.000 | 999.000 | 999.000 |
| X21                | 0.000  | 0.000 | 999.000 | 999.000 |
| X2LDSBW            | -0.349 | 0.398 | -0.876  | 0.381   |
| Variances          |        |       |         |         |
| X10                | 0.406  | 0.090 | 4.521   | 0.000   |
| X20                | 5.410  | 1.127 | 4.802   | 0.000   |
| X1LDSBW            | 0.678  | 0.177 | 3.832   | 0.000   |
| Residual Variances |        |       |         |         |
| X11                | 0.000  | 0.000 | 999.000 | 999.000 |
| X21                | 0.000  | 0.000 | 999.000 | 999.000 |
| X2LDSBW            | 3.183  | 1.085 | 2.935   | 0.003   |

#### STANDARDIZED MODEL RESULTS

#### STDYX Standardization

|                    | Estimate | S.E.    | Est./S.E. | Two-Tailed<br>P-Value |
|--------------------|----------|---------|-----------|-----------------------|
| X1LDSBW BY         |          |         |           |                       |
| X11                | 0.791    | 0.050   | 15.776    | 0.000                 |
| X2LDSBW BY         |          |         |           |                       |
| X21                | 0.707    | 0.057   | 12.305    | 0.000                 |
| X2LDSBW ON         |          |         |           |                       |
| X1LDSBW            | 0.642    | 0.136   | 4.706     | 0.000                 |
| X11 ON             |          |         |           |                       |
| X10                | 0.612    | 0.065   | 9.452     | 0.000                 |
| X21 ON             |          |         |           |                       |
| X20                | 0.707    | 0.057   | 12.299    | 0.000                 |
| X10 WITH           |          |         |           |                       |
| X1LDSBW            | 0.000    | 0.000   | 999.000   | 999.000               |
| X20 WITH           |          |         |           |                       |
| X2LDSBW            | 0.000    | 0.000   | 999.000   | 999.000               |
| X1LDSBW            | 0.000    | 0.000   | 999.000   | 999.000               |
| X20 WITH           |          |         |           |                       |
| X10                | 0.205    | 0.161   | 1.271     | 0.204                 |
| Means              |          |         |           |                       |
| X10                | -0.023   | 0.158   | -0.146    | 0.884                 |
| X20                | -0.041   | 0.148   | -0.275    | 0.783                 |
| X1LDSBW            | 0.380    | 0.192   | 1.976     | 0.048                 |
| Intercepts         |          |         |           |                       |
| X11                | 0.000    | 0.000   | 999.000   | 999.000               |
| X21                | 0.000    | 0.000   | 999.000   | 999.000               |
| X2LDSBW            | -0.150   | 0.168   | -0.893    | 0.372                 |
| Variances          |          |         |           |                       |
| X10                | 1.000    | 0.000   | 999.000   | 999.000               |
| X20                | 1.000    | 0.000   | 999.000   | 999.000               |
| X1LDSBW            | 1.000    | 0.000   | 999.000   | 999.000               |
| Residual Variances |          |         |           |                       |
| X11                | 0.000    | 999.000 | 999.000   | 999.000               |
| X21                | 0.000    | 999.000 | 999.000   | 999.000               |
| X2LDSBW            | 0.588    | 0.175   | 3.360     | 0.001                 |

Mplus output of HD(Neighborhood disorder)->HD(Depression)  
lds\_deprhd on neighhd\_propgr0.out

define:

```
y0=dsm_mder0 ; ! Whites Depression
y1=dsm_mder1 ; ! Blacks Depression
```

```

x10=disomean0 ; ! Whites Neighborhood disorder
x11=disomean1 ; ! Blacks Neighborhood disorder

```

```

model:
! X1 part
x1LdsBW by x11;
  x11@0;
  [x11@0];
  x11 on x10 @1;
  [x1LdsBW];
  x1LdsBW ;
x10 with x1LdsBW @0;

```

```

! Y part
yLdsBW by y1;
  y1@0;
  [y1@0];
  y1 on y0 @1;
  [yLdsBW];
  yLdsBW ;
y0 with yLdsBW @0;

```

```

! ~~~ *****Bivariate *****

```

```

yLdsBW on x1LdsBW;
Y0      WITH      X1LDSBW @0; !Mplus estimates them otherwise

```

#### R-SQUARE

| Latent Variable | Estimate | S.E.  | Est./S.E. | Two-Tailed P-Value |
|-----------------|----------|-------|-----------|--------------------|
| YLDSBW          | 0.038    | 0.076 | 0.505     | 0.614              |

#### MODEL RESULTS

|            | Estimate | S.E.  | Est./S.E. | Two-Tailed P-Value |
|------------|----------|-------|-----------|--------------------|
| X1LDSBW BY |          |       |           |                    |
| X11        | 1.000    | 0.000 | 999.000   | 999.000            |
| YLDSBW BY  |          |       |           |                    |
| Y1         | 1.000    | 0.000 | 999.000   | 999.000            |
| YLDSBW ON  |          |       |           |                    |
| X1LDSBW    | 0.154    | 0.153 | 1.006     | 0.314              |
| X11 ON     |          |       |           |                    |
| X10        | 1.000    | 0.000 | 999.000   | 999.000            |
| Y1 ON      |          |       |           |                    |
| Y0         | 1.000    | 0.000 | 999.000   | 999.000            |
| X10 WITH   |          |       |           |                    |
| X1LDSBW    | 0.000    | 0.000 | 999.000   | 999.000            |
| Y0 WITH    |          |       |           |                    |
| YLDSBW     | 0.000    | 0.000 | 999.000   | 999.000            |
| X1LDSBW    | 0.000    | 0.000 | 999.000   | 999.000            |
| X10 WITH   |          |       |           |                    |
| Y0         | -0.008   | 0.046 | -0.164    | 0.870              |
| Means      |          |       |           |                    |
| Y0         | 0.332    | 0.061 | 5.493     | 0.000              |
| X10        | -0.157   | 0.101 | -1.551    | 0.121              |
| X1LDSBW    | 0.385    | 0.153 | 2.524     | 0.012              |
| Intercepts |          |       |           |                    |
| Y1         | 0.000    | 0.000 | 999.000   | 999.000            |
| X11        | 0.000    | 0.000 | 999.000   | 999.000            |
| YLDSBW     | -0.183   | 0.104 | -1.751    | 0.080              |

|                           |       |       |         |         |
|---------------------------|-------|-------|---------|---------|
| <b>Variances</b>          |       |       |         |         |
| Y0                        | 0.221 | 0.040 | 5.503   | 0.000   |
| X10                       | 0.402 | 0.088 | 4.545   | 0.000   |
| X1LDSBW                   | 0.659 | 0.172 | 3.827   | 0.000   |
| <b>Residual Variances</b> |       |       |         |         |
| Y1                        | 0.000 | 0.000 | 999.000 | 999.000 |
| X11                       | 0.000 | 0.000 | 999.000 | 999.000 |
| YLDSBW                    | 0.390 | 0.075 | 5.198   | 0.000   |

**STANDARDIZED MODEL RESULTS**  
**STDYX Standardization**

|                           | Estimate | S.E.    | Est./S.E. | Two-Tailed<br>P-Value |
|---------------------------|----------|---------|-----------|-----------------------|
| <b>X1LDSBW BY</b>         |          |         |           |                       |
| X11                       | 0.788    | 0.051   | 15.528    | 0.000                 |
| <b>YLDSBW BY</b>          |          |         |           |                       |
| Y1                        | 0.805    | 0.037   | 22.038    | 0.000                 |
| <b>YLDSBW ON</b>          |          |         |           |                       |
| X1LDSBW                   | 0.196    | 0.194   | 1.010     | 0.313                 |
| <b>X11 ON</b>             |          |         |           |                       |
| X10                       | 0.616    | 0.065   | 9.475     | 0.000                 |
| <b>Y1 ON</b>              |          |         |           |                       |
| Y0                        | 0.594    | 0.049   | 12.002    | 0.000                 |
| <b>X10 WITH</b>           |          |         |           |                       |
| X1LDSBW                   | 0.000    | 0.000   | 999.000   | 999.000               |
| <b>Y0 WITH</b>            |          |         |           |                       |
| YLDSBW                    | 0.000    | 0.000   | 999.000   | 999.000               |
| X1LDSBW                   | 0.000    | 0.000   | 999.000   | 999.000               |
| <b>X10 WITH</b>           |          |         |           |                       |
| Y0                        | -0.025   | 0.155   | -0.164    | 0.870                 |
| <b>Means</b>              |          |         |           |                       |
| Y0                        | 0.707    | 0.144   | 4.912     | 0.000                 |
| X10                       | -0.247   | 0.161   | -1.531    | 0.126                 |
| X1LDSBW                   | 0.475    | 0.197   | 2.406     | 0.016                 |
| <b>Intercepts</b>         |          |         |           |                       |
| Y1                        | 0.000    | 0.000   | 999.000   | 999.000               |
| X11                       | 0.000    | 0.000   | 999.000   | 999.000               |
| YLDSBW                    | -0.287   | 0.163   | -1.759    | 0.079                 |
| <b>Variances</b>          |          |         |           |                       |
| Y0                        | 1.000    | 0.000   | 999.000   | 999.000               |
| X10                       | 1.000    | 0.000   | 999.000   | 999.000               |
| X1LDSBW                   | 1.000    | 0.000   | 999.000   | 999.000               |
| <b>Residual Variances</b> |          |         |           |                       |
| Y1                        | 0.000    | 999.000 | 999.000   | 999.000               |
| X11                       | 0.000    | 999.000 | 999.000   | 999.000               |
| YLDSBW                    | 0.962    | 0.076   | 12.658    | 0.000                 |