05/26/2024

Univariate Regressions on the DV

. logit midonset mmbilag, vce(r)

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -93.710112

Iteration 2: log pseudolikelihood = -93.66279

Iteration 3: log pseudolikelihood = -93.662783

Logistic regression Number of obs = 184

Wald chi2(1) = 5.40

Prob > chi2 = 0.0202

Log pseudolikelihood = -93.662783 Pseudo R2 = 0.0278

| Robust

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

mmbilag | .8554281 .3682431 2.32 0.020 .133685 1.577171

_cons | -1.599868 .2398899 -6.67 0.000 -2.070044 -1.129693

. logit midonset mmbiilag, vce(r)

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -94.377247

Iteration 2: log pseudolikelihood = -94.334073

Iteration 3: log pseudolikelihood = -94.334065

Logistic regression Number of obs = 184

Wald chi2(1) = 4.15

```
                                        Prob > chi2     =     0.0416
Log pseudolikelihood = -94.334065       Pseudo R2       =     0.0208

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   mmbiilag |   .8023468   .3937865     2.04   0.042     .0305394    1.574154
       _cons |  -1.495494   .2175764    -6.87   0.000    -1.921936   -1.069052
------------------------------------------------------------------------------
```

```
. logit midonset mmbiiilag, vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -96.222271
Iteration 2:   log pseudolikelihood = -96.222006
Iteration 3:   log pseudolikelihood = -96.222006

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       0.24
                                                Prob > chi2     =     0.6241
Log pseudolikelihood = -96.222006               Pseudo R2       =     0.0012

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  mmbiiilag |   .2231436   .4553867     0.49   0.624     -.669398    1.115685
       _cons |  -1.321756   .1994985    -6.63   0.000    -1.712766    -.930746
------------------------------------------------------------------------------
```

```
. logit midonset mmbivlag, vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -94.156005
Iteration 2:   log pseudolikelihood = -94.093329
Iteration 3:   log pseudolikelihood = -94.093315
Iteration 4:   log pseudolikelihood = -94.093315

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       4.68
                                                Prob > chi2     =     0.0305
Log pseudolikelihood = -94.093315               Pseudo R2       =     0.0233

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbivlag |   .8785504   .4060247     2.16   0.030     .0827566    1.674344
       _cons |  -1.491655   .2135844    -6.98   0.000    -1.910273   -1.073037
------------------------------------------------------------------------------

------------------------------------------------------------------------------------------------------------------------------------
. logit midonset nummidprdeclag, vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -89.421216
Iteration 2:   log pseudolikelihood = -89.177194
Iteration 3:   log pseudolikelihood = -89.177059
Iteration 4:   log pseudolikelihood = -89.177059

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      14.31
```

```
                                        Prob > chi2     =     0.0002
Log pseudolikelihood = -89.177059       Pseudo R2       =     0.0743

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
nummidprdec~g |   .3439333   .0909328     3.78   0.000     .1657083    .5221582
       _cons |  -2.132349   .3138778    -6.79   0.000    -2.747538    -1.51716
------------------------------------------------------------------------------
```

```
. logit midonset terclaimjprlag, vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -96.339391
Iteration 2:   log pseudolikelihood = -96.339391

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       0.00
                                                Prob > chi2     =     0.9735
Log pseudolikelihood = -96.339391               Pseudo R2       =     0.0000

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
terclaimjpr~g |  -.0032514    .097746    -0.03   0.973    -.1948299    .1883272
       _cons |  -1.273928   .2764069    -4.61   0.000    -1.815675   -.7321801
------------------------------------------------------------------------------
```

```
. logit midonset grrattrlag , vce(r)
```

```
Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -96.266087
Iteration 2:   log pseudolikelihood = -96.266019
Iteration 3:   log pseudolikelihood = -96.266019

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       0.23
                                                Prob > chi2     =     0.6347
Log pseudolikelihood = -96.266019               Pseudo R2       =     0.0008

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  grrattrlag |   .3600727   .7579171     0.48   0.635    -1.125418    1.845563
       _cons |  -1.364285   .2502774    -5.45   0.000     -1.85482     -.87375
------------------------------------------------------------------------------
-------------------------------------------------------------------------------------------------------------------------------
. logit midonset stwbinary , vce(r)

note: stwbinary != 1 predicts failure perfectly
      stwbinary dropped and 18 obs not used

Iteration 0:   log pseudolikelihood = -91.663274
Iteration 1:   log pseudolikelihood = -91.663274

Logistic regression                             Number of obs   =        166
                                                Wald chi2(0)    =          .
                                                Prob > chi2     =          .
Log pseudolikelihood = -91.663274               Pseudo R2       =    -0.0000
```

```
------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   stwbinary |          0  (omitted)
       _cons |  -1.147402   .1820333    -6.30   0.000    -1.504181   -.7906237
------------------------------------------------------------------------------
```

```
. logit midonset stwbinarymmbi , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -93.710112
Iteration 2:   log pseudolikelihood =  -93.66279
Iteration 3:   log pseudolikelihood = -93.662783

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       5.40
                                                Prob > chi2     =     0.0202
Log pseudolikelihood = -93.662783               Pseudo R2       =     0.0278

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
stwbinarymmbi |   .8554281   .3682431     2.32   0.020      .133685    1.577171
       _cons |  -1.599868   .2398899    -6.67   0.000    -2.070044   -1.129693
------------------------------------------------------------------------------
```

```
. logit midonset stwbinarymmbii , vce(r)
```

```
Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -94.377247
Iteration 2:   log pseudolikelihood = -94.334073
Iteration 3:   log pseudolikelihood = -94.334065

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       4.15
                                                Prob > chi2     =     0.0416
Log pseudolikelihood = -94.334065               Pseudo R2       =     0.0208

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
stwbinarym~ii |   .8023468   .3937865     2.04   0.042     .0305394    1.574154
       _cons |  -1.495494   .2175764    -6.87   0.000    -1.921936   -1.069052
------------------------------------------------------------------------------
```

```
. logit midonset stwbinarymmbiv , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -94.156005
Iteration 2:   log pseudolikelihood = -94.093329
Iteration 3:   log pseudolikelihood = -94.093315
Iteration 4:   log pseudolikelihood = -94.093315

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       4.68
                                                Prob > chi2     =     0.0305
Log pseudolikelihood = -94.093315               Pseudo R2       =     0.0233
```

```
------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
stwbinarymm~v |   .8785504   .4060247     2.16   0.030     .0827566    1.674344
       _cons |  -1.491655   .2135844    -6.98   0.000    -1.910273   -1.073037
------------------------------------------------------------------------------
```

```
. logit midonset outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -87.073622
Iteration 2:   log pseudolikelihood = -86.625023
Iteration 3:   log pseudolikelihood = -86.624108
Iteration 4:   log pseudolikelihood = -86.624108

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      17.58
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -86.624108               Pseudo R2       =     0.1008

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   outalllag |   1.635755   .3901256     4.19   0.000      .871123    2.400387
       _cons |  -2.110213   .3065043    -6.88   0.000    -2.710951   -1.509476
------------------------------------------------------------------------------
```

```
. logit midonset allieslag , vce(r)
```

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -89.125221

Iteration 2: log pseudolikelihood = -88.802234

Iteration 3: log pseudolikelihood = -88.80212

Iteration 4: log pseudolikelihood = -88.80212

Logistic regression Number of obs = 184

Wald chi2(1) = 14.69

Prob > chi2 = 0.0001

Log pseudolikelihood = -88.80212 Pseudo R2 = 0.0782

| Robust

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

allieslag | 1.438281 .3752503 3.83 0.000 .7028035 2.173758

_cons | -1.858135 .2614755 -7.11 0.000 -2.370617 -1.345652

Univariate with Independent Variables as the Dependent Variables

MMBi (military expenditures, three year)

. logit mmbi nummidprdeclag , vce(r)

Iteration 0: log pseudolikelihood = -115.43425

Iteration 1: log pseudolikelihood = -108.12555

Iteration 2: log pseudolikelihood = -108.06601

Iteration 3: log pseudolikelihood = -108.066

Logistic regression Number of obs = 184

Wald chi2(1) = 13.98

Prob > chi2 = 0.0002

Log pseudolikelihood = -108.066 Pseudo R2 = 0.0638

```
------------------------------------------------------------------------------
             |               Robust
        mmbi |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
nummidprdec~g |   .3153844   .0843486     3.74   0.000     .1500641    .4807047
       _cons |  -1.479437   .2707224    -5.46   0.000    -2.010043   -.9488312
------------------------------------------------------------------------------
```

. logit mmbi terclaimjprlag , vce(r)

```
Iteration 0:   log pseudolikelihood = -115.43425
Iteration 1:   log pseudolikelihood =  -99.35411
Iteration 2:   log pseudolikelihood = -98.760814
Iteration 3:   log pseudolikelihood = -98.758192
Iteration 4:   log pseudolikelihood = -98.758191

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      27.50
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -98.758191               Pseudo R2       =     0.1445

------------------------------------------------------------------------------
             |               Robust
        mmbi |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
terclaimjpr~g |  -.6049218   .1153492    -5.24   0.000    -.8310021   -.3788414
       _cons |   .3518993    .261573     1.35   0.179    -.1607743     .864573
------------------------------------------------------------------------------
```

. logit mmbi grrattrlag , vce(r)

```
Iteration 0:   log pseudolikelihood = -115.43425
Iteration 1:   log pseudolikelihood = -111.27889
Iteration 2:   log pseudolikelihood = -111.26123
Iteration 3:   log pseudolikelihood = -111.26123

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       6.10
                                                Prob > chi2     =     0.0135
Log pseudolikelihood = -111.26123               Pseudo R2       =     0.0362

------------------------------------------------------------------------------
             |               Robust
        mmbi |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  grrattrlag |   2.418633   .9794423     2.47   0.014     .4989614    4.338305
       _cons |  -1.330619   .2528736    -5.26   0.000    -1.826242   -.8349962
------------------------------------------------------------------------------

. logit mmbi outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -115.43425
Iteration 1:   log pseudolikelihood = -102.98104
Iteration 2:   log pseudolikelihood = -102.78352
Iteration 3:   log pseudolikelihood = -102.78337
Iteration 4:   log pseudolikelihood = -102.78337

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      23.40
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -102.78337               Pseudo R2       =     0.1096
```

```
------------------------------------------------------------------------------
             |               Robust
        mmbi |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   outalllag |   1.652328   .3415786     4.84   0.000     .9828467     2.32181
       _cons |  -1.515127   .2476334    -6.12   0.000    -2.00048   -1.029775
------------------------------------------------------------------------------
```

. logit mmbi allieslag , vce(r)

```
Iteration 0:   log pseudolikelihood = -115.43425
Iteration 1:   log pseudolikelihood = -92.210297
Iteration 2:   log pseudolikelihood = -91.815641
Iteration 3:   log pseudolikelihood = -91.814781
Iteration 4:   log pseudolikelihood = -91.814781

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      41.15
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -91.814781               Pseudo R2       =     0.2046

------------------------------------------------------------------------------
             |               Robust
        mmbi |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  allieslag |   2.386829   .3721009     6.41   0.000     1.657525    3.116134
       _cons |  -1.667707    .244456    -6.82   0.000    -2.146832   -1.188582
------------------------------------------------------------------------------
```

MMBii (military expenditures, five year)

```
. logit mmbii nummidprdeclag , vce(r)

Iteration 0:   log pseudolikelihood = -98.838613
Iteration 1:   log pseudolikelihood = -87.862194
Iteration 2:   log pseudolikelihood = -87.395122
Iteration 3:   log pseudolikelihood = -87.394378
Iteration 4:   log pseudolikelihood = -87.394378

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      22.65
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -87.394378               Pseudo R2       =     0.1158

------------------------------------------------------------------------------
             |               Robust
      mmbii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
nummidprdec~g |    .436274   .0916596     4.76   0.000     .2566245    .6159235
       _cons |  -2.324101   .3289635    -7.06   0.000    -2.968857   -1.679344
------------------------------------------------------------------------------

. logit mmbii terclaimjprlag , vce(r)

Iteration 0:   log pseudolikelihood = -98.838613
Iteration 1:   log pseudolikelihood = -90.465547
Iteration 2:   log pseudolikelihood = -90.037589
Iteration 3:   log pseudolikelihood = -90.036879
Iteration 4:   log pseudolikelihood = -90.036879

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      18.65
```

```
                                        Prob > chi2     =     0.0000
Log pseudolikelihood = -90.036879       Pseudo R2       =     0.0891

------------------------------------------------------------------------------
             |               Robust
       mmbii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
terclaimjpr~g |   -.477529   .1105829    -4.32   0.000    -.6942674   -.2607906
       _cons |   -.368325   .2596876    -1.42   0.156    -.8773034    .1406534
------------------------------------------------------------------------------

. logit mmbii grrattrlag , vce(r)

Iteration 0:   log pseudolikelihood = -98.838613
Iteration 1:   log pseudolikelihood = -97.159346
Iteration 2:   log pseudolikelihood = -97.137131
Iteration 3:   log pseudolikelihood =  -97.13713

Logistic regression                     Number of obs   =        184
                                        Wald chi2(1)    =       4.56
                                        Prob > chi2     =     0.0327
Log pseudolikelihood =  -97.13713       Pseudo R2       =     0.0172

------------------------------------------------------------------------------
             |               Robust
      mmbii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+----------------------------------------------------------------
  grrattrlag |   1.649445   .7721885     2.14   0.033     .1359834    3.162907
       _cons |  -1.618838   .2431646    -6.66   0.000    -2.095432   -1.142244
------------------------------------------------------------------------------
```

```
. logit mmbii outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -98.838613
Iteration 1:   log pseudolikelihood = -86.340511
Iteration 2:   log pseudolikelihood = -85.634599
Iteration 3:   log pseudolikelihood = -85.631798
Iteration 4:   log pseudolikelihood = -85.631798

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      22.96
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -85.631798               Pseudo R2       =     0.1336

------------------------------------------------------------------------------
             |               Robust
      mmbii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   outalllag |   1.903592   .3972839     4.79   0.000      1.12493    2.682255
       _cons |  -2.207275   .3185287    -6.93   0.000     -2.83158    -1.58297
------------------------------------------------------------------------------

. logit mmbii allieslag , vce(r)

Iteration 0:   log pseudolikelihood = -98.838613
Iteration 1:   log pseudolikelihood = -79.023617
Iteration 2:   log pseudolikelihood = -77.401215
Iteration 3:   log pseudolikelihood = -77.391975
Iteration 4:   log pseudolikelihood = -77.391973

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      36.37
```

```
                                        Prob > chi2     =     0.0000
Log pseudolikelihood = -77.391973       Pseudo R2       =     0.2170

------------------------------------------------------------------------------
             |               Robust
       mmbii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   allieslag |   2.485187   .4120956     6.03   0.000     1.677495     3.29288
       _cons |  -2.347037   .3164633    -7.42   0.000    -2.967293    -1.72678
------------------------------------------------------------------------------
```

MMBiii (military expenditures per mil. personnel capita, three year)

```
. logit mmbiii nummidprdeclag , vce(r)

Iteration 0:   log pseudolikelihood = -86.554175
Iteration 1:   log pseudolikelihood = -81.167609
Iteration 2:   log pseudolikelihood = -80.906601
Iteration 3:   log pseudolikelihood = -80.906388
Iteration 4:   log pseudolikelihood = -80.906388

Logistic regression                     Number of obs   =        184
                                        Wald chi2(1)    =      11.46
                                        Prob > chi2     =     0.0007
Log pseudolikelihood = -80.906388       Pseudo R2       =     0.0653

------------------------------------------------------------------------------
             |               Robust
      mmbiii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
nummidprdec~g |   .3241773   .0957667     3.39   0.001      .136478    .5118766
       _cons |  -2.335499   .3444588    -6.78   0.000    -3.010626   -1.660372
```

```
------------------------------------------------------------------------------

. logit mmbiii terclaimjprlag , vce(r)

Iteration 0:   log pseudolikelihood = -86.554175
Iteration 1:   log pseudolikelihood = -79.547889
Iteration 2:   log pseudolikelihood = -79.067553
Iteration 3:   log pseudolikelihood = -79.066577
Iteration 4:   log pseudolikelihood = -79.066577

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      18.51
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -79.066577               Pseudo R2       =     0.0865

------------------------------------------------------------------------------
             |               Robust
      mmbiii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
terclaimjpr~g |  -.4899088   .1138838    -4.30   0.000    -.7131169   -.2667007
       _cons |  -.6816817   .2687409    -2.54   0.011    -1.208404   -.1549591
------------------------------------------------------------------------------

. logit mmbiii grrattrlag , vce(r)

Iteration 0:   log pseudolikelihood = -86.554175
Iteration 1:   log pseudolikelihood = -83.248394
Iteration 2:   log pseudolikelihood = -83.104591
Iteration 3:   log pseudolikelihood = -83.104555
Iteration 4:   log pseudolikelihood = -83.104555
```

```
Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       8.10
                                                Prob > chi2     =     0.0044
Log pseudolikelihood = -83.104555               Pseudo R2       =     0.0399

------------------------------------------------------------------------------
             |               Robust
      mmbiii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  grrattrlag |   2.507107   .8810015     2.85   0.004     .7803762    4.233839
       _cons |  -2.160418   .2776371    -7.78   0.000    -2.704577   -1.616259
------------------------------------------------------------------------------

. logit mmbiii outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -86.554175
Iteration 1:   log pseudolikelihood = -74.845188
Iteration 2:   log pseudolikelihood = -73.662247
Iteration 3:   log pseudolikelihood =  -73.65592
Iteration 4:   log pseudolikelihood =  -73.65592

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      20.80
                                                Prob > chi2     =     0.0000
Log pseudolikelihood =  -73.65592               Pseudo R2       =     0.1490

------------------------------------------------------------------------------
             |               Robust
      mmbiii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  outalllag |    2.10643   .4619202     4.56   0.000     1.201083    3.011777
```

```
       _cons |  -2.698481   .3915427    -6.89   0.000     -3.46589   -1.931071
------------------------------------------------------------------------------

. logit mmbiii allieslag , vce(r)

Iteration 0:   log pseudolikelihood = -86.554175
Iteration 1:   log pseudolikelihood = -69.680928
Iteration 2:   log pseudolikelihood = -66.949972
Iteration 3:   log pseudolikelihood = -66.926118
Iteration 4:   log pseudolikelihood = -66.926089
Iteration 5:   log pseudolikelihood = -66.926089

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      31.03
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -66.926089               Pseudo R2       =     0.2268

------------------------------------------------------------------------------
             |               Robust
      mmbiii |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   allieslag |   2.625574   .4713592     5.57   0.000     1.701727    3.549421
       _cons |  -2.833213   .3899834    -7.26   0.000    -3.597567    -2.06886
```

MMBiv (military expenditures per mil. personnel capita, three year)

```
. logit mmbiv nummidprdeclag , vce(r)

Iteration 0:   log pseudolikelihood = -93.713339
Iteration 1:   log pseudolikelihood =  -91.84139
Iteration 2:   log pseudolikelihood = -91.816463
Iteration 3:   log pseudolikelihood = -91.816461
```

```
Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       4.31
                                                Prob > chi2     =     0.0378
Log pseudolikelihood = -91.816461               Pseudo R2       =     0.0202

------------------------------------------------------------------------------
             |               Robust
      mmbiv |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
nummidprdec~g |   .1784176   .0858945     2.08   0.038     .0100675    .3467677
       _cons |  -1.760713   .2804236    -6.28   0.000    -2.310333   -1.211093
------------------------------------------------------------------------------

. logit mmbiv terclaimjprlag , vce(r)

Iteration 0:   log pseudolikelihood = -93.713339
Iteration 1:   log pseudolikelihood = -89.880089
Iteration 2:   log pseudolikelihood =  -89.77892
Iteration 3:   log pseudolikelihood = -89.778737
Iteration 4:   log pseudolikelihood = -89.778737

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       8.30
                                                Prob > chi2     =     0.0040
Log pseudolikelihood = -89.778737               Pseudo R2       =     0.0420

------------------------------------------------------------------------------
             |               Robust
      mmbiv |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
--------------+---------------------------------------------------------------
terclaimjpr~g |  -.3145456   .1091658    -2.88   0.004    -.5285066   -.1005846
```

```
       _cons |  -.7527148    .265568    -2.83   0.005    -1.273218   -.2322111
------------------------------------------------------------------------------

. logit mmbiv grrattrlag , vce(r)

Iteration 0:   log pseudolikelihood = -93.713339
Iteration 1:   log pseudolikelihood = -91.598037
Iteration 2:   log pseudolikelihood = -91.552944
Iteration 3:   log pseudolikelihood = -91.552939

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =       5.43
                                                Prob > chi2     =     0.0198
Log pseudolikelihood = -91.552939               Pseudo R2       =     0.0231

------------------------------------------------------------------------------
             |               Robust
      mmbiv |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
  grrattrlag |   1.908311   .8190884     2.33   0.020     .3029273    3.513695
       _cons |   -1.81702   .2609114    -6.96   0.000    -2.328397   -1.305643
------------------------------------------------------------------------------

. logit mmbiv outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -93.713339
Iteration 1:   log pseudolikelihood =  -82.90845
Iteration 2:   log pseudolikelihood = -82.209624
Iteration 3:   log pseudolikelihood =  -82.20683
Iteration 4:   log pseudolikelihood =  -82.20683
```

```
Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      20.02
                                                Prob > chi2     =     0.0000
Log pseudolikelihood =  -82.20683               Pseudo R2       =     0.1228

------------------------------------------------------------------------------
             |               Robust
      mmbiv |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   outalllag |   1.838077   .4107976     4.47   0.000     1.032929    2.643226
       _cons |  -2.312535   .3324177    -6.96   0.000    -2.964062   -1.661009
------------------------------------------------------------------------------

. logit mmbiv allieslag , vce(r)

Iteration 0:   log pseudolikelihood = -93.713339
Iteration 1:   log pseudolikelihood = -78.801554
Iteration 2:   log pseudolikelihood = -77.395944
Iteration 3:   log pseudolikelihood = -77.391974
Iteration 4:   log pseudolikelihood = -77.391973

Logistic regression                             Number of obs   =        184
                                                Wald chi2(1)    =      28.73
                                                Prob > chi2     =     0.0000
Log pseudolikelihood = -77.391973               Pseudo R2       =     0.1742

------------------------------------------------------------------------------
             |               Robust
      mmbiv |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   allieslag |   2.208886   .4120956     5.36   0.000     1.401194    3.016579
```

```
       _cons |  -2.347037   .3164633    -7.42   0.000    -2.967293    -1.72678
------------------------------------------------------------------------------
```

.----------

Bivariate Regressions

MMBi

```
. logit midonset mmbilag nummidprdeclag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -88.765398
Iteration 2:   log pseudolikelihood = -88.480299
Iteration 3:   log pseudolikelihood =  -88.48012
Iteration 4:   log pseudolikelihood =  -88.48012

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =      14.10
                                                Prob > chi2     =     0.0009
Log pseudolikelihood =  -88.48012               Pseudo R2       =     0.0816

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     mmbilag |     .47409   .3697464     1.28   0.200    -.2505997     1.19878
nummidprdec~g |    .307881    .089793     3.43   0.001       .13189     .483872
       _cons |  -2.216984   .3420739    -6.48   0.000    -2.887437   -1.546532
------------------------------------------------------------------------------

. logit midonset mmbilag terclaimjprlag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
```

```
Iteration 1:   log pseudolikelihood = -93.149113
Iteration 2:   log pseudolikelihood = -93.083273
Iteration 3:   log pseudolikelihood =  -93.08325
Iteration 4:   log pseudolikelihood =  -93.08325

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =       6.87
                                                Prob > chi2     =     0.0322
Log pseudolikelihood =  -93.08325               Pseudo R2       =     0.0338

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     mmbilag |   1.064236   .4061261     2.62   0.009      .268243    1.860228
terclaimjpr~g |   .1297732   .1125312     1.15   0.249    -.0907839    .3503304
       _cons |  -1.959534    .384056    -5.10   0.000    -2.712269   -1.206798
------------------------------------------------------------------------------

. logit midonset mmbilag grrattrlag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -93.703022
Iteration 2:   log pseudolikelihood =  -93.65545
Iteration 3:   log pseudolikelihood = -93.655443

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =       5.42
                                                Prob > chi2     =     0.0664
Log pseudolikelihood = -93.655443               Pseudo R2       =     0.0279
```

```
------------------------------------------------------------------------------
             |               Robust
   midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbilag |   .8664016   .3754521     2.31   0.021      .130529    1.602274
 grrattrlag |  -.1270882   .8985834    -0.14   0.888    -1.888279    1.634103
      _cons |  -1.574595   .3006266    -5.24   0.000    -2.163812   -.9853775
------------------------------------------------------------------------------

. logit midonset mmbilag outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -86.797293
Iteration 2:   log pseudolikelihood = -86.328255
Iteration 3:   log pseudolikelihood = -86.327229
Iteration 4:   log pseudolikelihood = -86.327229

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =      17.50
                                                Prob > chi2     =     0.0002
Log pseudolikelihood = -86.327229               Pseudo R2       =     0.1039

------------------------------------------------------------------------------
             |               Robust
   midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbilag |   .3143354   .3620119     0.87   0.385    -.3951948    1.023866
  outalllag |   1.527472   .3773799     4.05   0.000     .7878206    2.267123
      _cons |  -2.172767   .3398705    -6.39   0.000      -2.8389   -1.506633
------------------------------------------------------------------------------
```

. logit midonset mmbilag allieslag , vce(r)

Iteration 0: log pseudolikelihood = -96.339886
Iteration 1: log pseudolikelihood = -89.059464
Iteration 2: log pseudolikelihood = -88.733187
Iteration 3: log pseudolikelihood = -88.733067
Iteration 4: log pseudolikelihood = -88.733067

Logistic regression Number of obs = 184
Wald chi2(2) = 15.17
Prob > chi2 = 0.0005
Log pseudolikelihood = -88.733067 Pseudo R2 = 0.0790

| Robust
midonset | Coef. Std. Err. z P>|z| [95% Conf. Interval]
---+---
mmbilag | .1645554 .3630237 0.45 0.650 -.546958 .8760689
allieslag | 1.354449 .3674658 3.69 0.000 .6342295 2.074669
_cons | -1.885594 .2880329 -6.55 0.000 -2.450128 -1.32106

MMBii

. logit midonset mmbiilag nummidprdeclag , vce(r)

Iteration 0: log pseudolikelihood = -96.339886
Iteration 1: log pseudolikelihood = -89.228728
Iteration 2: log pseudolikelihood = -88.969741
Iteration 3: log pseudolikelihood = -88.969599
Iteration 4: log pseudolikelihood = -88.969599

Logistic regression Number of obs = 184

```
                                  Wald chi2(2)    =      14.17
                                  Prob > chi2     =     0.0008
Log pseudolikelihood = -88.969599               Pseudo R2       =     0.0765

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbiilag |   .2841069   .4264388     0.67   0.505    -.5516977    1.119912
nummidprdeclag |   .3206319   .0950127     3.37   0.001     .1344103    .5068534
       _cons |  -2.149038   .3178403    -6.76   0.000    -2.771994   -1.526083
------------------------------------------------------------------------------

. logit midonset mmbiilag terclaimjprlag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -94.177713
Iteration 2:   log pseudolikelihood = -94.131117
Iteration 3:   log pseudolikelihood = -94.131108

Logistic regression                             Number of obs   =        184
                                  Wald chi2(2)    =       4.71
                                  Prob > chi2     =     0.0948
Log pseudolikelihood = -94.131108               Pseudo R2       =     0.0229

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbiilag |   .8945629   .4122956     2.17   0.030     .0864785    1.702647
terclaimjprlag |   .0719509   .1057947     0.68   0.496    -.1354029    .2793047
```

```
       _cons |  -1.676036   .3373895    -4.97   0.000    -2.337307   -1.014764
------------------------------------------------------------------------------

. logit midonset mmbiilag grrattrlag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood =   -94.3716
Iteration 2:   log pseudolikelihood = -94.328338
Iteration 3:   log pseudolikelihood =  -94.32833

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =       4.17
                                                Prob > chi2     =     0.1245
Log pseudolikelihood =  -94.32833               Pseudo R2       =     0.0209

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbiilag |   .7958733   .3969331     2.01   0.045     .0178986    1.573848
  grrattrlag |   .1069905     .83734     0.13   0.898    -1.534166    1.748147
       _cons |   -1.51852   .2827321    -5.37   0.000    -2.072665   -.9643754
------------------------------------------------------------------------------

. logit midonset mmbiilag outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -86.998863
Iteration 2:   log pseudolikelihood = -86.543826
Iteration 3:   log pseudolikelihood = -86.542891
Iteration 4:   log pseudolikelihood = -86.542891
```

```
Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =      17.57
                                                Prob > chi2     =     0.0002
Log pseudolikelihood = -86.542891               Pseudo R2       =     0.1017

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbiilag |   .1757914   .4021297     0.44   0.662    -.6123683    .9639512
   outalllag |   1.578767   .3939971     4.01   0.000     .8065471    2.350987
       _cons |  -2.128742    .317055    -6.71   0.000    -2.750158   -1.507326
------------------------------------------------------------------------------

. logit midonset mmbiilag allieslag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood =  -89.12021
Iteration 2:   log pseudolikelihood = -88.796881
Iteration 3:   log pseudolikelihood = -88.796767
Iteration 4:   log pseudolikelihood = -88.796767

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =      14.87
                                                Prob > chi2     =     0.0006
Log pseudolikelihood = -88.796767               Pseudo R2       =     0.0783

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
   mmbiilag |   .0480029   .4150449     0.12   0.908      -.76547    .8614759
  allieslag |   1.416823   .3950559     3.59   0.000     .6425272    2.191118
      _cons |  -1.862393   .2697987    -6.90   0.000    -2.391188   -1.333597
------------------------------------------------------------------------------
```

.----------

MMBiv

. logit midonset mmbivlag nummidprdeclag , vce(r)

```
Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood =  -88.30168
Iteration 2:   log pseudolikelihood = -87.996029
Iteration 3:   log pseudolikelihood = -87.995707
Iteration 4:   log pseudolikelihood = -87.995707

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =      14.43
                                                Prob > chi2     =     0.0007
Log pseudolikelihood = -87.995707               Pseudo R2       =     0.0866

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbivlag |   .6596893   .4317311     1.53   0.127    -.1864881    1.505867
nummidprdeclag |   .3269216   .0959883     3.41   0.001     .1387879    .5150552
       _cons |  -2.251627   .3393502    -6.64   0.000    -2.916741   -1.586513
------------------------------------------------------------------------------
```

. logit midonset mmbivlag terclaimjprlag , vce(r)

```
Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood =  -94.08436
Iteration 2:   log pseudolikelihood = -94.020628
Iteration 3:   log pseudolikelihood = -94.020613
Iteration 4:   log pseudolikelihood = -94.020613

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =       4.84
                                                Prob > chi2     =     0.0888
Log pseudolikelihood = -94.020613               Pseudo R2       =     0.0241

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbivlag |   .9116441   .4142719     2.20   0.028      .099686    1.723602
terclaimjprlag |   .0412399   .1023118     0.40   0.687    -.1592875    .2417673
       _cons |  -1.588736   .3228055    -4.92   0.000    -2.221423    -.956049
------------------------------------------------------------------------------

. logit midonset mmbivlag grrattrlag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -94.155675
Iteration 2:   log pseudolikelihood = -94.092994
Iteration 3:   log pseudolikelihood = -94.092979
Iteration 4:   log pseudolikelihood = -94.092979

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =       4.68
```

```
                                        Prob > chi2     =     0.0962
Log pseudolikelihood = -94.092979       Pseudo R2       =     0.0233

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbivlag |   .8765607   .4110806     2.13   0.033     .0708576    1.682264
  grrattrlag |   .0259389   .8324551     0.03   0.975    -1.605643    1.657521
       _cons |  -1.497173   .2773179    -5.40   0.000    -2.040706   -.9536402
------------------------------------------------------------------------------

. logit midonset mmbivlag outalllag , vce(r)

Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood =  -86.97875
Iteration 2:   log pseudolikelihood = -86.520433
Iteration 3:   log pseudolikelihood = -86.519496
Iteration 4:   log pseudolikelihood = -86.519496

Logistic regression                     Number of obs   =        184
                                        Wald chi2(2)    =      17.76
                                        Prob > chi2     =     0.0001
Log pseudolikelihood = -86.519496       Pseudo R2       =     0.1019

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    mmbivlag |    .205875    .448832     0.46   0.646    -.6738195     1.08557
   outalllag |      1.5688   .4164102     3.77   0.000     .7526509    2.384949
```

```
       _cons |  -2.126196   .3089269    -6.88   0.000    -2.731682   -1.520711
------------------------------------------------------------------------------
```

. logit midonset mmbivlag allieslag , vce(r)

```
Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -89.034912
Iteration 2:   log pseudolikelihood = -88.704868
Iteration 3:   log pseudolikelihood = -88.704753
Iteration 4:   log pseudolikelihood = -88.704753

Logistic regression                             Number of obs   =        184
                                                Wald chi2(2)    =      14.96
                                                Prob > chi2     =     0.0006
Log pseudolikelihood = -88.704753               Pseudo R2       =     0.0793

------------------------------------------------------------------------------
             |               Robust
    midonset |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
   mmbivlag |   .2052859   .4759764     0.43   0.666    -.7276108    1.138183
  allieslag |   1.359084   .4230884     3.21   0.001     .5298456    2.188322
       _cons |  -1.875576   .2634393    -7.12   0.000    -2.391908   -1.359245
------------------------------------------------------------------------------
```

MULTIVARIATE REGRESSIONS (Table 1 results)

MMBi

. logit midonset mmbilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

```
Iteration 0:   log pseudolikelihood = -96.339886
Iteration 1:   log pseudolikelihood = -83.955747
Iteration 2:   log pseudolikelihood = -82.514378
```

Iteration 3: log pseudolikelihood = -82.463849

Iteration 4: log pseudolikelihood = -82.463836

Iteration 5: log pseudolikelihood = -82.463836

Logistic regression Number of obs = 184

Wald chi2(6) = 24.65

Prob > chi2 = 0.0004

Log pseudolikelihood = -82.463836 Pseudo R2 = 0.1440

| Robust

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

mmbilag | .3877832 .4265733 0.91 0.363 -.4482852 1.223852

nummidprdeclag | .0599072 .1406937 0.43 0.670 -.2158473 .3356618

terclaimjprlag | .4146271 .239146 1.73 0.083 -.0540905 .8833447

grrattrlag | -1.244256 1.239239 -1.00 0.315 -3.67312 1.184608

outalllag | 1.400829 .7358443 1.90 0.057 -.0413991 2.843058

allieslag | 1.041449 1.203911 0.87 0.387 -1.318172 3.40107

_cons | -3.383819 .7669461 -4.41 0.000 -4.887005 -1.880632

Coefficient Effect tables and Marginal Effect Plot

margins, dydx(*)

Average marginal effects Number of obs = 184

Model VCE : Robust

Expression : Pr(midonset), predict()

dy/dx w.r.t. : mmbilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag

| Delta-method

| dy/dx Std. Err. z P>|z| [95% Conf. Interval]

---

mmbilag | .0566058 .0608233 0.93 0.352 -.0626057 .1758173

nummidprdeclag | .0087448 .0204985 0.43 0.670 -.0314315 .0489211

terclaimjprlag | .0605243 .0350547 1.73 0.084 -.0081818 .1292303

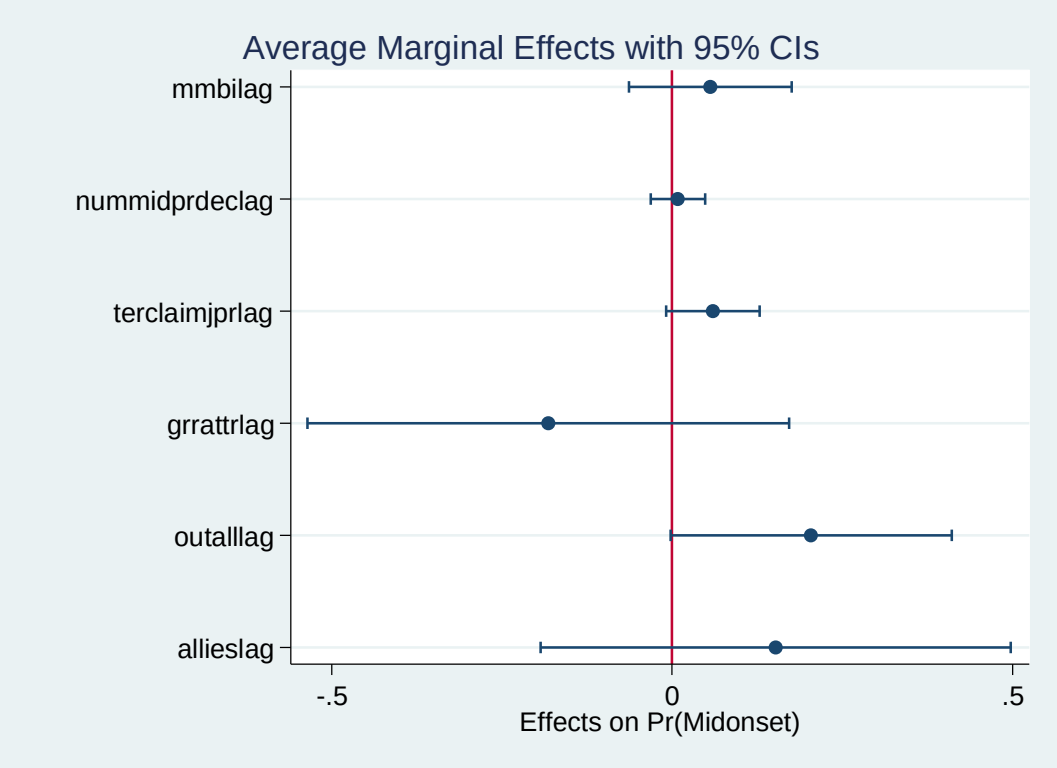
grrattrlag | -.1816275 .1803429 -1.01 0.314 -.5350931 .1718381

outalllag | .204483 .1054748 1.94 0.053 -.0022439 .4112098

allieslag | .1520232 .1760936 0.86 0.388 -.1931139 .4971603

. marginsplot, horizontal xline(0) yscale(reverse) recast(scatter)

Variables that uniquely identify margins: _deriv



MMBii

. logit midonset mmbiilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -84.289402

Iteration 2: log pseudolikelihood = -82.810782

Iteration 3: log pseudolikelihood = -82.761345

Iteration 4: log pseudolikelihood = -82.761324

Iteration 5: log pseudolikelihood = -82.761324

Logistic regression Number of obs = 184

Wald chi2(6) = 23.76

Prob > chi2 = 0.0006

Log pseudolikelihood = -82.761324 Pseudo R2 = 0.1409

| Robust

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

mmbiilag | .0412328 .4654242 0.09 0.929 -.870982 .9534475

nummidprdeclag | .0707826 .1370903 0.52 0.606 -.1979095 .3394747

terclaimjprlag | .4083163 .2451116 1.67 0.096 -.0720937 .8887263

grrattrlag | -1.214414 1.255978 -0.97 0.334 -3.676086 1.247259

outalllag | 1.334275 .7218432 1.85 0.065 -.0805119 2.749062

allieslag | 1.258435 1.223309 1.03 0.304 -1.139206 3.656076

_cons | -3.332335 .7754497 -4.30 0.000 -4.852189 -1.812482

Coefficient Effect tables and Marginal Effect Plot

. margins, dydx(*)

Average marginal effects Number of obs = 184

Model VCE : Robust

Expression : Pr(midonset), predict()

dy/dx w.r.t. : mmbiilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag

---

| Delta-method

| dy/dx Std. Err. z P>|z| [95% Conf. Interval]

---+---

mmbiilag | .0060527 .0682542 0.09 0.929 -.1277231 .1398286

nummidprdeclag | .0103905 .0200657 0.52 0.605 -.0289376 .0497186

terclaimjprlag | .0599385 .0361461 1.66 0.097 -.0109066 .1307836

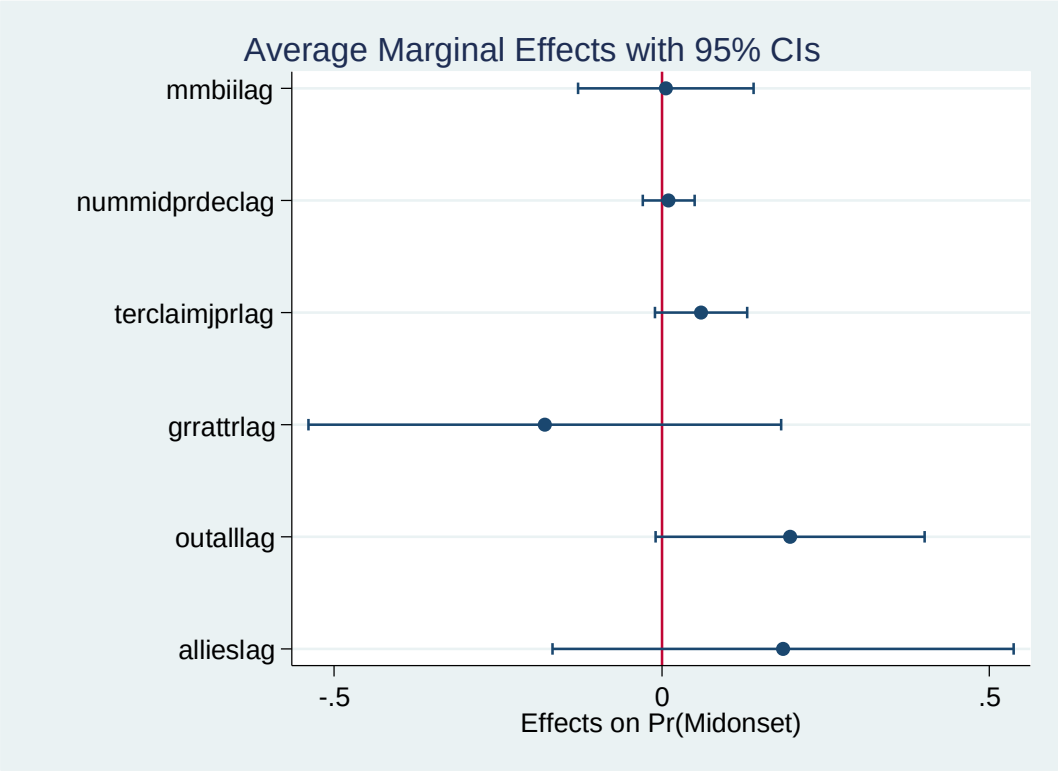
grrattrlag | -.178269 .1840037 -0.97 0.333 -.5389096 .1823716

outalllag | .1958639 .1046113 1.87 0.061 -.0091704 .4008983

allieslag | .1847311 .1794451 1.03 0.303 -.1669748 .5364369

. marginsplot, horizontal xline(0) yscale(reverse) recast(scatter)

Variables that uniquely identify margins: _deriv



MMBiv

. logit midonset mmbivlag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -84.242959

Iteration 2: log pseudolikelihood = -82.780591

Iteration 3: log pseudolikelihood = -82.730935

Iteration 4: log pseudolikelihood = -82.730916

Iteration 5: log pseudolikelihood = -82.730916

Logistic regression Number of obs = 184

Wald chi2(6) = 23.87

Prob > chi2 = 0.0006

Log pseudolikelihood = -82.730916 Pseudo R2 = 0.1413

| Robust

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

mmbivlag | .1265403 .4916959 0.26 0.797 -.8371661 1.090247

nummidprdeclag | .0800569 .1399712 0.57 0.567 -.1942816 .3543954

terclaimjprlag | .3979565 .2455405 1.62 0.105 -.083294 .8792071

grrattrlag | -1.236026 1.248449 -0.99 0.322 -3.682941 1.21089

outalllag | 1.31784 .7197772 1.83 0.067 -.0928971 2.728578

allieslag | 1.196523 1.246119 0.96 0.337 -1.245826 3.638872

_cons | -3.312551 .7661581 -4.32 0.000 -4.814194 -1.810909

Coefficient Effect tables and Marginal Effect Plot

. margins, dydx(*)

Average marginal effects Number of obs = 184

Model VCE : Robust

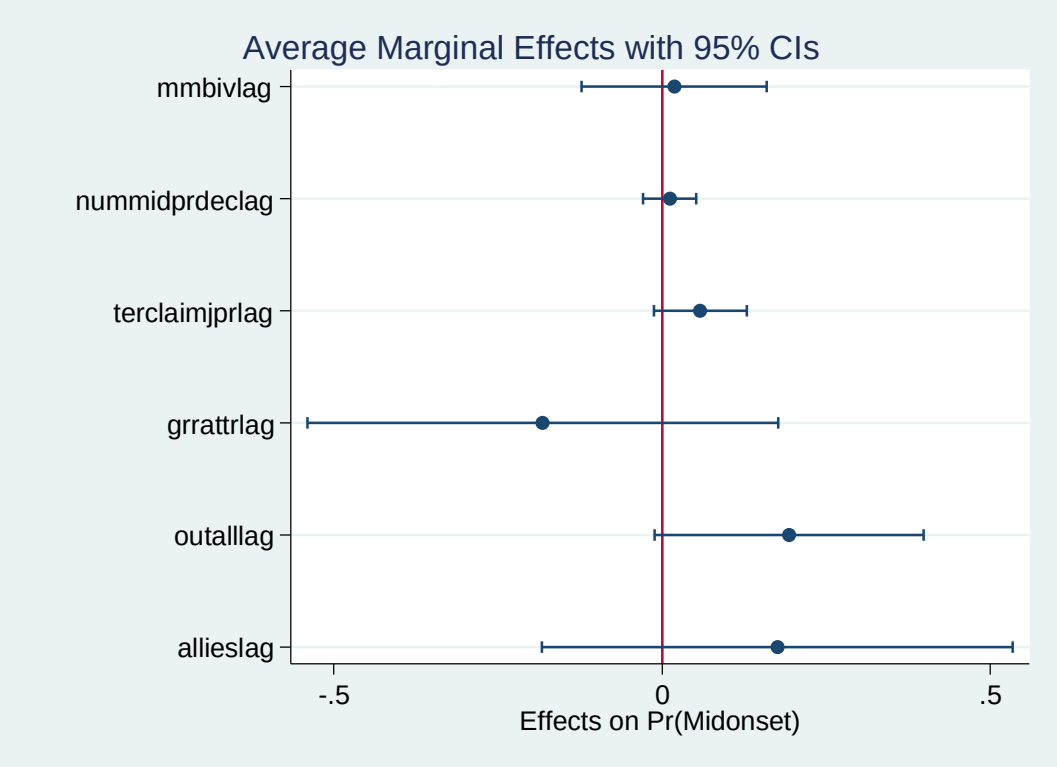
Expression : Pr(midonset), predict()

dy/dx w.r.t. : mmbivlag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag

	Delta-method				
	dy/dx	Std. Err.	z	P>|z|	[95% Conf. Interval]
mmbivlag	.018561	.0720238	0.26	0.797	-.1226031 .1597251
nummidprdeclag	.0117428	.0204326	0.57	0.565	-.0283045 .05179
terclaimjprlag	.0583725	.0362318	1.61	0.107	-.0126406 .1293856
grrattrlag	-.1813009	.1826937	-0.99	0.321	-.539374 .1767723
outalllag	.1933015	.1044557	1.85	0.064	-.0114278 .3980308
allieslag	.1755066	.1825836	0.96	0.336	-.1823507 .533364

. marginsplot, horizontal xline(0) yscale(reverse) recast(scatter)

Variables that uniquely identify margins: _deriv



Steps to War combination Binary Variables Regressions (Table 2 results)

logit midonset stwbinary stwbinarymmbi, vce(r)

Iteration 0: log pseudolikelihood = -96.339886
Iteration 1: log pseudolikelihood = -86.025398
Iteration 2: log pseudolikelihood = -85.268322
Iteration 3: log pseudolikelihood = -85.267773
Iteration 4: log pseudolikelihood = -85.267773

Logistic regression Number of obs = 184
Wald chi2(2) = 20.98
Prob > chi2 = 0.0000
Log pseudolikelihood = -85.267773 Pseudo R2 = 0.1149

| Robust
midonset	Coef. Std. Err. z P>|z| [95% Conf. Interval]
stwbinary	1.016374 .5272113 1.93 0.054 -.0169409 2.049689
stwbinarymmbi	.9472355 .5474937 1.73 0.084 -.1258324 2.020304
_cons	-2.014903 .2852976 -7.06 0.000 -2.574076 -1.45573

Coefficient Effect tables and Marginal Effect Plot

. margins, dydx(*)

Average marginal effects Number of obs = 184
Model VCE : Robust

Expression : Pr(midonset), predict()
dy/dx w.r.t. : stwbinary stwbinarymmbi

| Delta-method

| dy/dx Std. Err. z P>|z| [95% Conf. Interval]

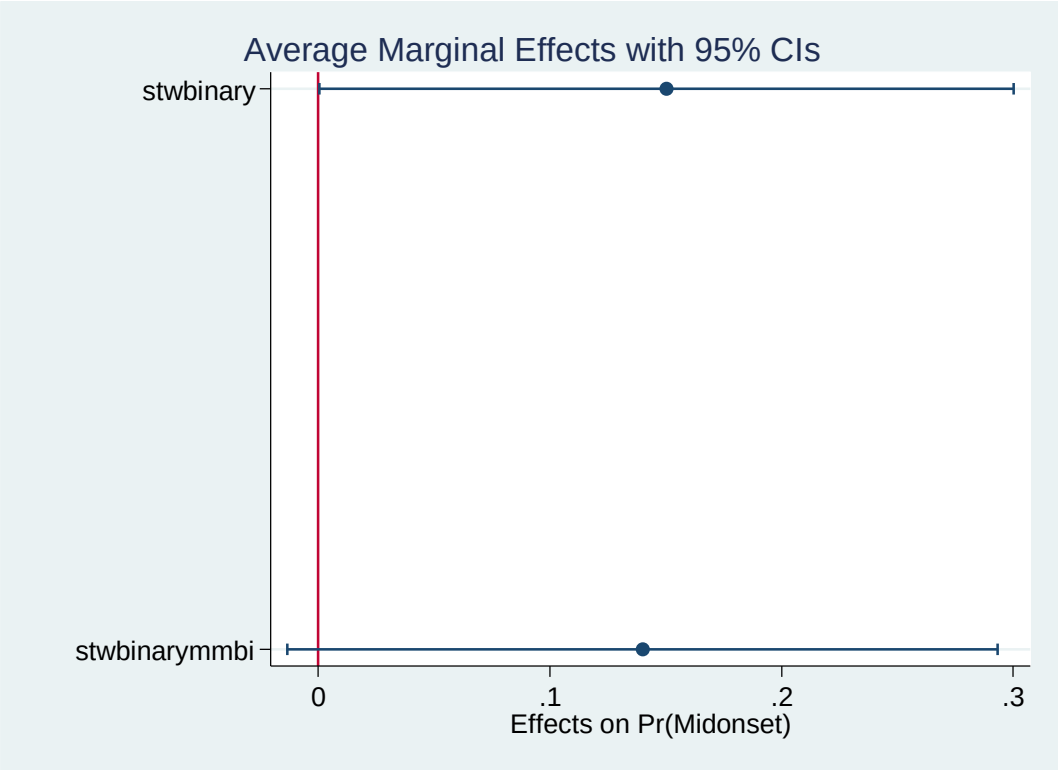
---+---

stwbinary | .1503124 .0763969 1.97 0.049 .0005773 .3000476

stwbinarymmbi | .1400875 .0781688 1.79 0.073 -.0131206 .2932955

. marginsplot, horizontal xline(0) yscale(reverse) recast(scatter)

Variables that uniquely identify margins: _deriv



---

logit midonset stwbinary stwbinarymmbii, vce(r)

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -87.042523

Iteration 2: log pseudolikelihood = -86.520066

Iteration 3: log pseudolikelihood = -86.519674

Iteration 4: log pseudolikelihood = -86.519674

Logistic regression Number of obs = 184
  Wald chi2(2) = 18.42
  Prob > chi2 = 0.0001
Log pseudolikelihood = -86.519674 Pseudo R2 = 0.1019

| Robust
midonset	Coef. Std. Err. z P>|z| [95% Conf. Interval]
stwbinary	1.408767 .4592237 3.07 0.002 .5087054 2.308829
stwbinarymmbii	.4119798 .5103484 0.81 0.420 -.5882847 1.412244
_cons	-2.014903 .2852976 -7.06 0.000 -2.574076 -1.45573

Coefficient Effect tables and Marginal Effect Plot

. margins, dydx(*)

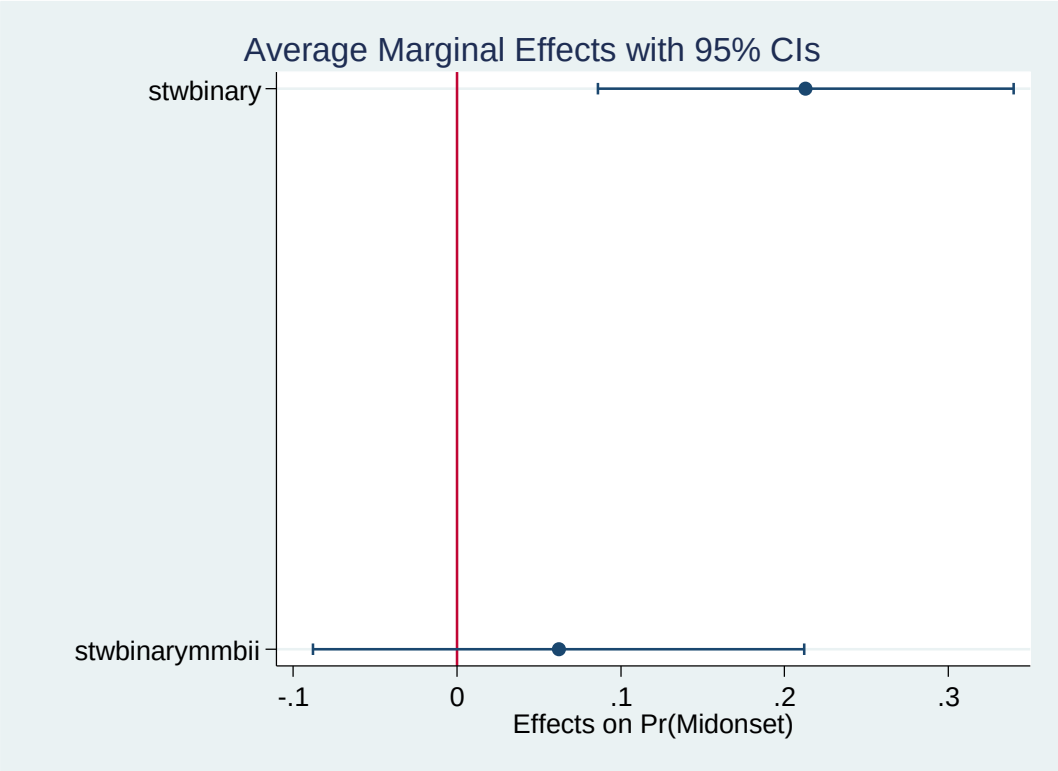
Average marginal effects Number of obs = 184
Model VCE : Robust

Expression : Pr(midonset), predict()
dy/dx w.r.t. : stwbinary stwbinarymmbii

| Delta-method
| dy/dx Std. Err. z P>|z| [95% Conf. Interval]
---|---
stwbinary | .2128086 .0647098 3.29 0.001 .0859797 .3396375
stwbinarymmbii | .0622337 .0764808 0.81 0.416 -.0876659 .2121334

. marginsplot, horizontal xline(0) yscale(reverse) recast(scatter)

Variables that uniquely identify margins: _deriv



---

logit midonset stwbinary stwbinarymmbiv, vce(r)

Iteration 0: log pseudolikelihood = -96.339886

Iteration 1: log pseudolikelihood = -87.281679

Iteration 2: log pseudolikelihood = -86.828502

Iteration 3: log pseudolikelihood = -86.828074

Iteration 4: log pseudolikelihood = -86.828074

Logistic regression Number of obs = 184

Wald chi2(2) = 17.80

Prob > chi2 = 0.0001

Log pseudolikelihood = -86.828074 Pseudo R2 = 0.0987

	Robust				
midonset	Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval]
stwbinary	1.562918	.4460006	3.50	0.000	.6887727 2.437063
stwbinarymmbiv	.1036784	.5103484	0.20	0.839	-.8965861 1.103943
_cons	-2.014903	.2852976	-7.06	0.000	-2.574076 -1.45573

Coefficient Effect tables and Marginal Effect Plot

. margins, dydx(*)

Average marginal effects Number of obs = 184

Model VCE : Robust

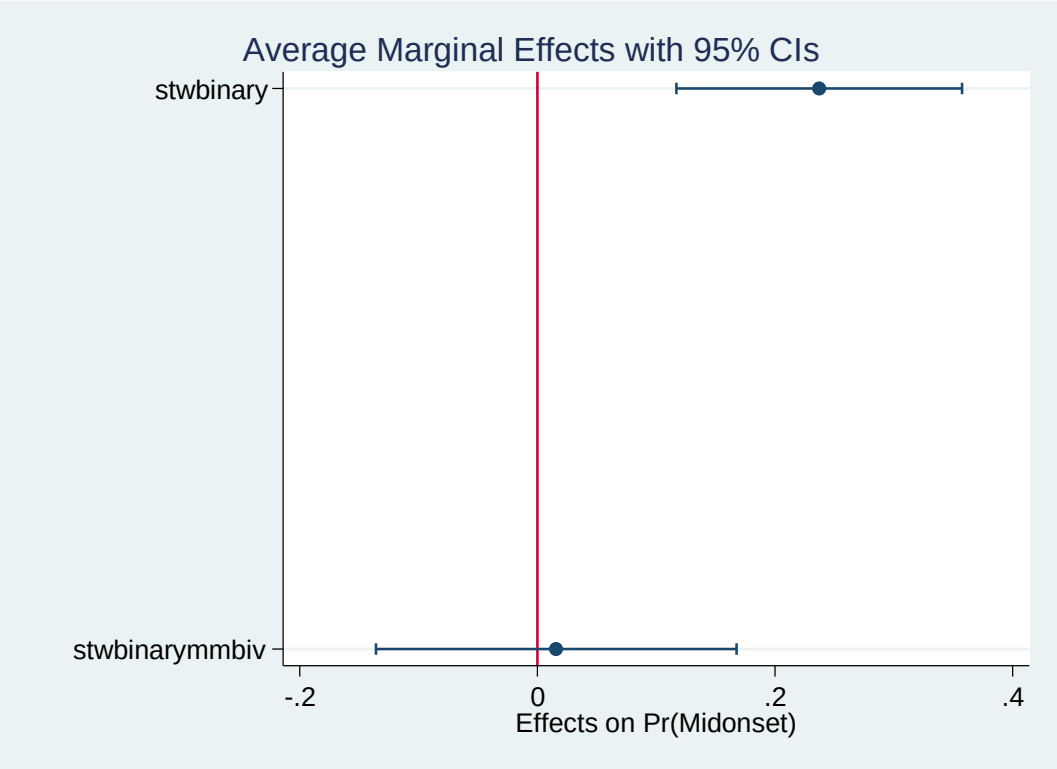
Expression : Pr(midonset), predict()

dy/dx w.r.t. : stwbinary stwbinarymmbiv

	Delta-method				
	dy/dx	Std. Err.	z	P>|z|	[95% Conf. Interval]
stwbinary	.237351	.0612389	3.88	0.000	.1173249 .357377
stwbinarymmbiv	.015745	.0774644	0.20	0.839	-.1360825 .1675725

. marginsplot, horizontal xline(0) yscale(reverse) recast(scatter)

Variables that uniquely identify margins: _deriv



Coefplot Grpahs

logit midonset mmbilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

estimates store Model1

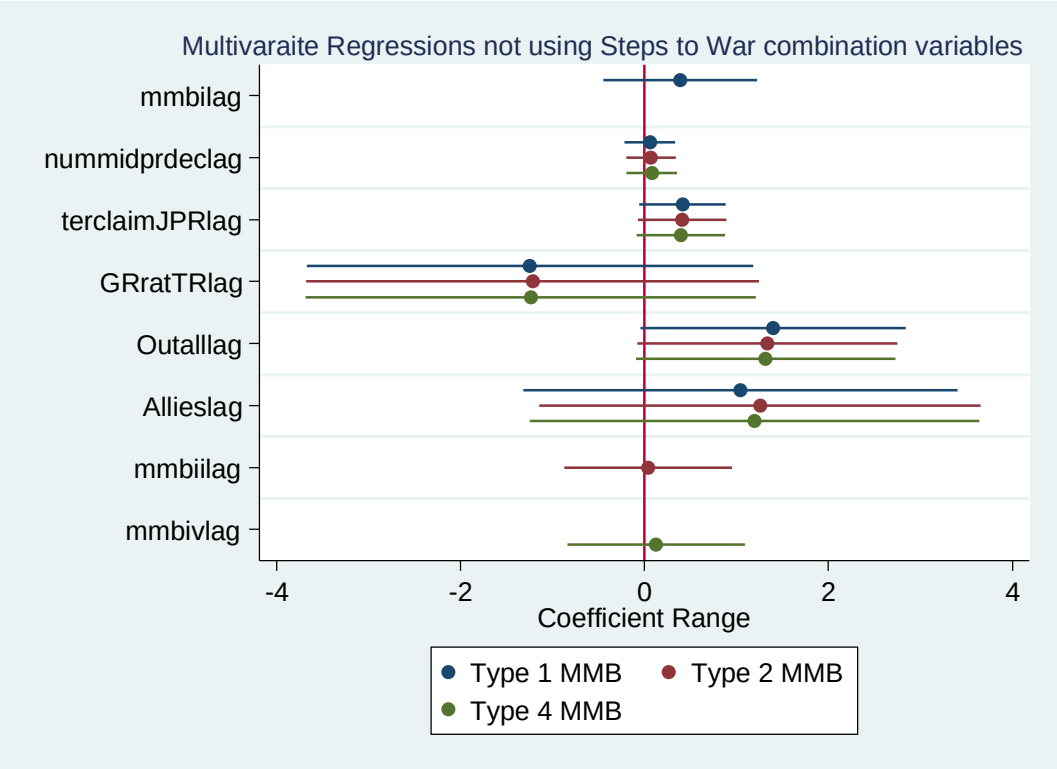
logit midonset mmbiilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

estimates store Model2

logit midonset mmbivlag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

estimates store Model3

coefplot(Model1,label(Type 1 MMB))(Model2,label(Type 2 MMB))(Model3,label(Type 4 MMB)),drop(?cons)xline(0)



logit midonset stwbinary stwbinarymmbi, vce(r)

estimates store ModelI

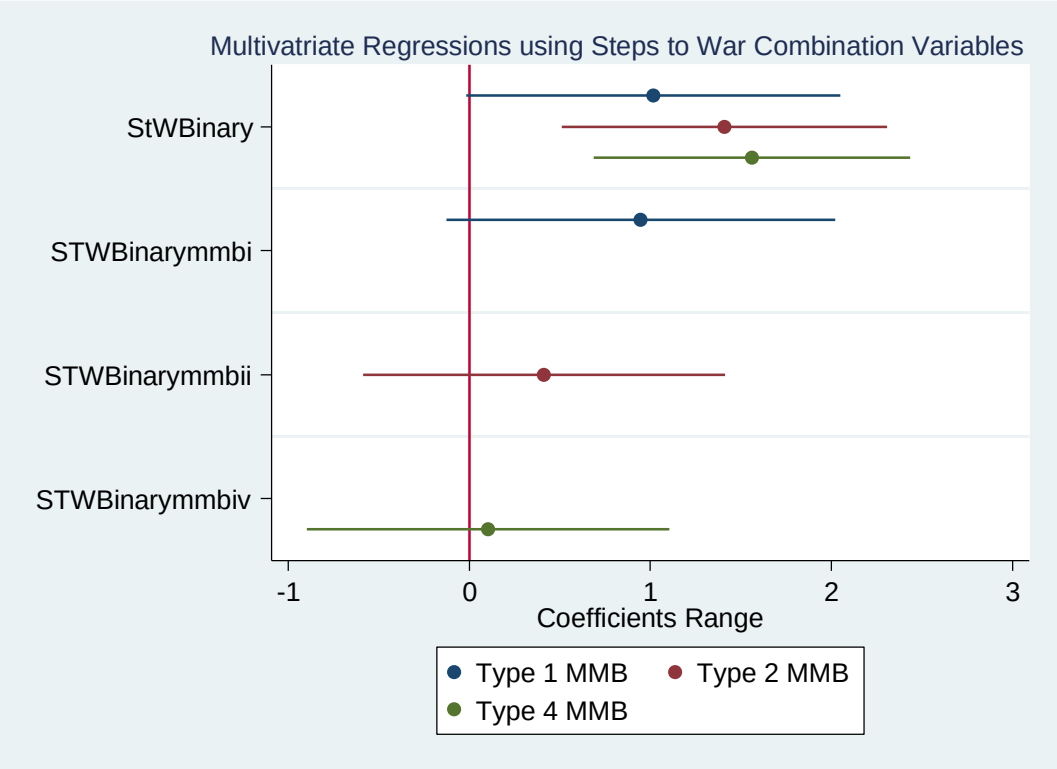
logit midonset stwbinary stwbinarymmbii, vce(r)

estimates store ModelII

logit midonset stwbinary stwbinarymmbiv, vce(r)

estimates store ModelIV

coefplot(ModelI,label(Type 1 MMB))(ModelII,label(Type 2 MMB))(ModelIV,label(Type 4 MMB)),drop(?cons)xline(0)



Adjusted Predicted Probabilities

logit midonset mmbilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)

margins, at(mmbi=(0 1)) atmeans vsquish

Adjusted predictions Number of obs = 184

Model VCE : Robust

Expression : Pr(midonset), predict()

1._at : mmbilag = 0

nummidprde~g = 2.130435 (mean)

terclaimjp~g = 2.157609 (mean)

grrattrlag = .2278983 (mean)

outalllag = .3967391 (mean)

allieslag = .3152174 (mean)

2._at : mmbilag = 1

```
            nummidprde~g    =    2.130435 (mean)
            terclaimjp~g    =    2.157609 (mean)
            grrattrlag      =    .2278983 (mean)
            outalllag       =    .3967391 (mean)
            allieslag       =    .3152174 (mean)

------------------------------------------------------------------------------
             |            Delta-method
             |    Margin   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
          _at |
           1 |   .1466521   .0385446     3.80   0.000     .0711061    .2221981
           2 |   .2020838   .0557982     3.62   0.000     .0927213    .3114463
------------------------------------------------------------------------------
```

```
logit midonset mmbiilag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)
margins, at(mmbii=(0 1)) atmeans vsquish

Adjusted predictions                            Number of obs   =        184
Model VCE    : Robust

Expression   : Pr(midonset), predict()
1._at        : mmbiilag        =           0
               nummidprde~g    =    2.130435 (mean)
               terclaimjp~g    =    2.157609 (mean)
               grrattrlag      =    .2278983 (mean)
               outalllag       =    .3967391 (mean)
               allieslag       =    .3152174 (mean)
2._at        : mmbiilag        =           1
               nummidprde~g    =    2.130435 (mean)
               terclaimjp~g    =    2.157609 (mean)
```

grrattrlag = .2278983 (mean)
outalllag = .3967391 (mean)
allieslag = .3152174 (mean)

| Delta-method
| Margin Std. Err. z P>|z| [95% Conf. Interval]

_at |
1 | .1609369 .0378055 4.26 0.000 .0868394 .2350343
2 | .1665829 .0601559 2.77 0.006 .0486796 .2844862

---

logit midonset mmbivlag nummidprdeclag terclaimjprlag grrattrlag outalllag allieslag , vce(r)
. margins, at(mmbiv=(0 1)) atmeans vsquish

Adjusted predictions Number of obs = 184
Model VCE : Robust

Expression : Pr(midonset), predict()
1._at : mmbivlag = 0
nummidprde~g = 2.130435 (mean)
terclaimjp~g = 2.157609 (mean)
grrattrlag = .2278983 (mean)
outalllag = .3967391 (mean)
allieslag = .3152174 (mean)
2._at : mmbivlag = 1
nummidprde~g = 2.130435 (mean)
terclaimjp~g = 2.157609 (mean)
grrattrlag = .2278983 (mean)
outalllag = .3967391 (mean)
allieslag = .3152174 (mean)

```
------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       _at |
        1  |   .1590859   .0360067     4.42   0.000     .0885141    .2296578
        2  |   .1767527   .0693139     2.55   0.011     .0408999    .3126056
------------------------------------------------------------------------------
```

logit midonset stwbinary stwbinarymmbi, vce(r)

. margins, at(stwbinarymmbi =(0 1)) at(stwbinary=1) vsquish

```
Predictive margins                              Number of obs   =        184
Model VCE    : Robust

Expression   : Pr(midonset), predict()
1._at        : stwbinary~bi    =           0
2._at        : stwbinary~bi    =           1
3._at        : stwbinary       =           1

------------------------------------------------------------------------------
             |            Delta-method
             |     Margin   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
       _at |
        1  |   .1711957   .0362815     4.72   0.000     .1000852    .2423061
        2  |   .3375677   .0939435     3.59   0.000     .1534419    .5216935
        3  |   .3154264    .070812     4.45   0.000     .1766375    .4542153
------------------------------------------------------------------------------
```

logit midonset stwbinary stwbinarymmbii, vce(r)

. margins, at(stwbinarymmbii =(0 1)) at(stwbinary=1) vsquish

Predictive margins Number of obs = 184

Model VCE : Robust

Expression : Pr(midonset), predict()

1._at : stwbinary~ii = 0

2._at : stwbinary~ii = 1

3._at : stwbinary = 1

| Delta-method

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

---+---

_at |

1 | .2007673 .0347802 5.77 0.000 .1325993 .2689352

2 | .2679135 .0764984 3.50 0.000 .1179793 .4178476

3 | .3695652 .069983 5.28 0.000 .232401 .5067294

---

logit midonset stwbinary stwbinarymmbiv, vce(r)

. margins, at(stwbinarymmbiv =(0 1)) at(stwbinary=1) vsquish

Predictive margins Number of obs = 184

Model VCE : Robust

Expression : Pr(midonset), predict()

1._at : stwbinarym~v = 0

2._at : stwbinarym~v = 1

3._at : stwbinary = 1

| Delta-method

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

_at |

1 | .2134662 .0345715 6.17 0.000 .1457074 .281225

2 | .2295049 .0680377 3.37 0.001 .0961534 .3628565

3 | .392814 .0701363 5.60 0.000 .2553495 .5302785