


```

. generate agec50=age-50
. xi: logit chdever agec50 i.sex i.sex*agec50
      _Isex_1-2 (naturally coded; _Isex_2 omitted)
      _Isex*agec50
note: _Isex_1 dropped due to collinearity
note: agec50 dropped due to collinearity
Iteration 0: log likelihood = -675.62283
Iteration 1: log likelihood = -651.26705
Iteration 2: log likelihood = -650.18652
Iteration 3: log likelihood = -650.18189
Iteration 4: log likelihood = -650.18189
Logit estimates
      Number of obs   =    1363
      LR chi2(3)      =    50.88
      Prob > chi2      =    0.0000
      Pseudo R2       =    0.0377

Log likelihood = -650.18189
-----+-----
      chdever |      Coef.   Std. Err.      z    P>|z|   [95% Conf. Interval]
-----+-----
      agec50 |   .0981977   .0231919    4.23   0.000   .0527424   .143653
      _Isex_1 |  -.8962559   .1759208   -5.09   0.000  -.1241054  -1.241054
      _Isex*agec-1 | -.0529667   .029872   -1.77   0.076  -.1115148  -.0055813
      _cons |  -2.087607   .1403913   -14.87   0.000  -2.362769  -1.812445
-----+-----

. estimates store model1

. xi: logit chdever agec50 i.sex i.sex*agec50,or
      _Isex_1-2 (naturally coded; _Isex_2 omitted)
      _Isex*agec50
note: _Isex_1 dropped due to collinearity
note: agec50 dropped due to collinearity
Iteration 0: log likelihood = -675.62283
Iteration 1: log likelihood = -651.26705
Iteration 2: log likelihood = -650.18652
Iteration 3: log likelihood = -650.18189
Iteration 4: log likelihood = -650.18189
Logit estimates
      Number of obs   =    1363
      LR chi2(3)      =    50.88
      Prob > chi2      =    0.0000
      Pseudo R2       =    0.0377

Log likelihood = -650.18189
-----+-----
      chdever |      Odds Ratio   Std. Err.      z    P>|z|   [95% Conf. Interval]
-----+-----
      agec50 |   1.103181   .0255848    4.23   0.000   1.054158   1.154483
      _Isex_1 |   2.450411   .4310784    5.09   0.000   1.735781   3.459259
      _Isex*agec-1 | .9484115   .028331   -1.77   0.076   .8944781   1.005597
-----+-----

. logit chdever sex agec50,or
Iteration 0: log likelihood = -675.62283
Iteration 1: log likelihood = -652.2274
Iteration 2: log likelihood = -651.76593
Iteration 3: log likelihood = -651.7657
Logit estimates
      Number of obs   =    1363
      LR chi2(2)      =    47.71
      Prob > chi2      =    0.0000
      Pseudo R2       =    0.0353

Log likelihood = -651.7657
-----+-----
      chdever |      Odds Ratio   Std. Err.      z    P>|z|   [95% Conf. Interval]
-----+-----
      sex |   .4886373   .0686419   -5.10   0.000   .3710036   .6435688
      agec50 |   1.068993   .0155876    4.58   0.000   1.038875   1.099985
-----+-----

. estimates store model2
. lrtest model1 model2
      LR chi2(1)      =    3.17
      Prob > chi2      =    0.0751
      (Assumption: model2 nested in model1)

.
.
end of do-file
. log close
      log: E:\KUNSEN\logistic\KFora\ 2004\stata3.log
      log type: text
      closed on:  3 May 2004, 10:55:32
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```