

```

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log: E:\KURSER\Logistisk\Forår 2006\statal.log
log type: text
opened on: 25 Apr 2006, 13:09:43
. use fram,clear
. version
version 9.2
. *kort undersøgelse af var bla for missing
. codebook sex chd age sbp cig
-----
sex (unlabeled)
-----
      type: numeric (float)
      label: sex
      range: [1,2]
      unique values: 2
      tabulation: Freq.   Numeric   Label
                  669         1   male
                  737         2   female
                  units: 1
                  missing.: 0/1406
-----
chd coronary heart disease diagnosis
-----
      type: numeric (float)
      label: chd
      range: [0,10]
      unique values: 11
      examples: 0 no evidence of chd through ex. 10
                0 no evidence of chd through ex. 10
                0 no evidence of chd through ex. 10
                1 preexisting chd at ex. 1
                units: 1
                missing.: 0/1406
-----
age age at ex. 1
-----
      type: numeric (float)
      range: [45,62]
      unique values: 18
      mean: 52.4452
      std. dev: 4.78471
      percentiles: 10% 25% 50% 75% 90%
                  46 48 52 56 59
-----
sbp systolic blood pressure, ex. 1
-----
      type: numeric (float)
      range: [90,300]
      unique values: 94
      mean: 148.126
      std. dev: 28.0289
      percentiles: 10% 25% 50% 75% 90%
                  120 130 142 160 182
-----
cig cigarettes per day, ex. 1
-----
      type: numeric (float)
      range: [0,60]
      unique values: 13
      mean: 8.04199
      std. dev: 11.5951
      percentiles: 10% 25% 50% 75% 90%
                  0 0 0 20 20
-----
.
. generate chdever=chd>1 if( chd!=.)
. generate age4=(age>48)+(age>52)+(age>56) if( age!=.)
. generate sys160=sbp>160 if( sbp!=.)
. generate smoke=cig>0 if( cig!=.)
(1 missing value generated)
.
. drop if chd==1
(43 observations deleted)
.
. tabodds chdever sex, base(2)w or
-----
      |      cases      controls      odds      Woolf
      |      |      |      |      |      |
      | sex |      |      |      |      |
      |---|
      | male | 164 | 479 | 2.02794 | 1.54321 | 2.66494
      | female | 104 | 616 | 1.00000 | 0.74539 | 1.34158
      |---|
Test of homogeneity (equal odds): chi2(1) = 26.29
Pr>chi2 = 0.0000
Score test for trend of odds: chi2(1) = 26.29
Pr>chi2 = 0.0000
. tabodds chdever sys160, base(1) w or
-----
      |      cases      controls      odds      Woolf
      |      |      |      |      |
      | sys160 |      |      |      |
      |---|

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```

-----+-----
      0 |      167      880      1.00000      0.79140      1.26359
      1 |      101      215      2.47542      1.85493      3.30348
-----+-----
Test of homogeneity (equal odds):  chi2(1) =      39.37
                                   Pr>chi2 =      0.0000
Score test for trend of odds:      chi2(1) =      39.37
                                   Pr>chi2 =      0.0000
. tabodds chdever smoke if smoke!=. , base(1) w or
-----+-----
      smoke |      cases      controls      odds      Woolf
              |      cases      controls      ratio      [95% Conf. Interval]
-----+-----
      0 |      134      614      1.00000      0.76775      1.30250
      1 |      134      480      1.27917      0.97886      1.67160
-----+-----
Test of homogeneity (equal odds):  chi2(1) =      3.26
                                   Pr>chi2 =      0.0710
Score test for trend of odds:      chi2(1) =      3.26
                                   Pr>chi2 =      0.0710
. tabodds chdever age4, base(1) w or
-----+-----
      age4 |      cases      controls      odds      Woolf
              |      cases      controls      ratio      [95% Conf. Interval]
-----+-----
      0 |      51      308      1.00000      0.65768      1.52049
      1 |      61      298      1.23622      0.82490      1.85263
      2 |      64      254      1.52169      1.01629      2.27842
      3 |      92      235      2.36429      1.61367      3.46406
-----+-----
Test of homogeneity (equal odds):  chi2(3) =      23.27
                                   Pr>chi2 =      0.0000
Score test for trend of odds:      chi2(1) =      21.64
                                   Pr>chi2 =      0.0000
.
. table sys160 chdever ,by(sex)
-----+-----
sex and      |      chdever
sys160      |      0      1
-----+-----
male        |
      0 |      414      117
      1 |      65      47
-----+-----
female      |
      0 |      466      50
      1 |      150      54
-----+-----
. cs chdever sys160, w or
      sys160
      Exposed      Unexposed      Total
-----+-----
      Cases |      101      167      268
      Noncases |      215      880      1095
-----+-----
      Total |      316      1047      1363
      Risk |      .3196203      .1595033      .1966251
-----+-----
      Point estimate      [95% Conf. Interval]
-----+-----
Risk difference |      .1601169      .1041216      .2161122
Risk ratio      |      2.003847      1.620021      2.478612
Attr. frac. ex. |      .5009598      .3827239      .5965483
Attr. frac. pop |      .1887946      .1854928      .3303476
Odds ratio      |      2.475421      1.854928      3.303476 (Woolf)
-----+-----
      chi2(1) =      39.40      Pr>chi2 =      0.0000
. cs chdever sys160, by(sex) w or
      sex |      OR      [95% Conf. Interval]      M-H Weight
-----+-----
      male |      2.55858      1.668179      3.924239      11.82737 (Woolf)
      female |      3.3552      2.19045      5.139293      10.41667 (Woolf)
-----+-----
      Crude |      2.475421      1.854928      3.303476
      M-H combined |      2.931629      2.168865      3.962648
-----+-----
Test of homogeneity (M-H)      chi2(1) =      0.774      Pr>chi2 =      0.3791
Test that combined OR = 1:
      Mantel-Haenszel      chi2(1) =      51.72
                          Pr>chi2 =      0.0000
.
. logit chdever sys160
Iteration 0:      log likelihood = -675.62283
Iteration 1:      log likelihood = -658.05691
Iteration 2:      log likelihood = -657.47154

```

Iteration 3: log likelihood = -657.47131
Logistic regression

Number of obs = 1363
LR chi2(1) = 36.30
Prob > chi2 = 0.0000
Pseudo R2 = 0.0269

Log likelihood = -657.47131

chdever	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
sys160	.9064106	.1472295	6.16	0.000	.617846 1.194975
_cons	-1.661928	.0844061	-19.69	0.000	-1.827361 -1.496495

. logit chdever sys160,or

Iteration 0: log likelihood = -675.62283
Iteration 1: log likelihood = -658.05691
Iteration 2: log likelihood = -657.47154
Iteration 3: log likelihood = -657.47131
Logistic regression

Number of obs = 1363
LR chi2(1) = 36.30
Prob > chi2 = 0.0000
Pseudo R2 = 0.0269

Log likelihood = -657.47131

chdever	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]
sys160	2.475421	.3644551	6.16	0.000	1.854928 3.303476

. * vi vil have kvinder dvs sex=2 som reference
. * vi vil have lavt blodtryk som reference

. char sex[omit]2

. char sys160[omit]0

. xi:logit chdever i.sys160 i.sex

i.sys160 _Isys160_0-1 (naturally coded; _Isys160_0 omitted)
i.sex _Isex_1-2 (naturally coded; _Isex_2 omitted)

Iteration 0: log likelihood = -675.62283
Iteration 1: log likelihood = -639.93851
Iteration 2: log likelihood = -638.68006
Iteration 3: log likelihood = -638.6787
Logistic regression

Number of obs = 1363
LR chi2(2) = 73.89
Prob > chi2 = 0.0000
Pseudo R2 = 0.0547

Log likelihood = -638.6787

chdever	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]
_Isys160_1	1.075291	.1536891	7.00	0.000	.7740655 1.376516
_Isex_1	.8749646	.1457309	6.00	0.000	.5893373 1.160592
_cons	-2.170322	.1279629	-16.96	0.000	-2.421124 -1.919519

. xi:logit chdever i.sys160 i.sex,or

i.sys160 _Isys160_0-1 (naturally coded; _Isys160_0 omitted)
i.sex _Isex_1-2 (naturally coded; _Isex_2 omitted)

Iteration 0: log likelihood = -675.62283
Iteration 1: log likelihood = -639.93851
Iteration 2: log likelihood = -638.68006
Iteration 3: log likelihood = -638.6787
Logistic regression

Number of obs = 1363
LR chi2(2) = 73.89
Prob > chi2 = 0.0000
Pseudo R2 = 0.0547

Log likelihood = -638.6787

chdever	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]
_Isys160_1	2.930844	.4504388	7.00	0.000	2.168565 3.961076
_Isex_1	2.39879	.3495779	6.00	0.000	1.802793 3.191822

. log close

log: E:\KURSER\Logistisk\Forår 2006\statal.log
log type: text
closed on: 25 Apr 2006, 13:09:46