**. logit MR\_indicator, vce(cl mineid) offset(lnhours) or**

Iteration 0: log pseudolikelihood = -13290.31

Iteration 1: log pseudolikelihood = -12749.272

Iteration 2: log pseudolikelihood = -12747.661

Iteration 3: log pseudolikelihood = -12747.661

Logistic regression Number of obs = 30,289

Wald chi2(0) = .

Log pseudolikelihood = -12747.661 Prob > chi2 = .

(Std. Err. adjusted for 1,582 clusters in mineid)

------------------------------------------------------------------------------

| Robust

MR\_indicator | Odds Ratio Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

\_cons | .0000132 3.45e-07 -431.04 0.000 .0000126 .0000139

lnhours | 1 (offset)

------------------------------------------------------------------------------

**. lfit**

Logistic model for MR\_indicator, goodness-of-fit test

number of observations = 30289

number of covariate patterns = 1

Pearson chi2(0) = 0.00

Prob > chi2 = .

**. linktest**

Iteration 0: log likelihood = -16756.658

Iteration 1: log likelihood = -12868.433

Iteration 2: log likelihood = -12622.312

Iteration 3: log likelihood = -12614.036

Iteration 4: log likelihood = -12613.94

Iteration 5: log likelihood = -12613.939

Logistic regression Number of obs = 30,289

LR chi2(2) = 8285.44

Prob > chi2 = 0.0000

Log likelihood = -12613.939 Pseudo R2 = 0.2472

------------------------------------------------------------------------------

MR\_indicator | Coef. Std. Err. z P>|z| [95% Conf. Interval]

-------------+----------------------------------------------------------------

\_hat | 1.307572 .0206671 63.27 0.000 1.267066 1.348079

\_hatsq | .1066627 .005031 21.20 0.000 .0968022 .1165233

\_cons | .060774 .0205963 2.95 0.003 .0204059 .101142

------------------------------------------------------------------------------

**. estat classification**

Logistic model for MR\_indicator

-------- True --------

Classified | D ~D | Total

-----------+--------------------------+-----------

+ | 2967 1273 | 4240

- | 4359 21690 | 26049

-----------+--------------------------+-----------

Total | 7326 22963 | 30289

Classified + if predicted Pr(D) >= .5

--------------------------------------------------

Sensitivity Pr( +| D) 40.50%

Specificity Pr( -|~D) 94.46%

Positive predictive value Pr( D| +) 69.98%

Negative predictive value Pr(~D| -) 83.27%

--------------------------------------------------

False + rate for true ~D Pr( +|~D) 5.54%

False - rate for true D Pr( -| D) 59.50%

False + rate for classified + Pr(~D| +) 30.02%

False - rate for classified - Pr( D| -) 16.73%

--------------------------------------------------

Correctly classified 81.41%

--------------------------------------------------

**. summ MR\_indicator null\_yhat**

Variable | Obs Mean Std. Dev. Min Max

-------------+---------------------------------------------------------

MR\_indicator | 30,289 .24187 .4282230 0 1

null\_yhat | 30,289 .24187 .2095666 .0000132 .9043127