**. glm MR, family(poisson) link(log) vce(cl mineid) exposure(hours) eform**

Iteration 0: log pseudolikelihood = -22813.429

Iteration 1: log pseudolikelihood = -20361.96

Iteration 2: log pseudolikelihood = -20357.315

Iteration 3: log pseudolikelihood = -20357.315

Generalized linear models No. of obs = 30,289

Optimization : ML Residual df = 30,288

Scale parameter = 1

Deviance = 23701.43 (1/df) Deviance = .7825353

Pearson = 486084.7104 (1/df) Pearson = 16.04876

Variance function: V(u) = u [Poisson]

Link function : g(u) = ln(u) [Log]

AIC = 1.344271

Log pseudolikelihood = -20357.31454 BIC = -288826.5

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

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

| Robust

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

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

\_cons | .0000103 3.04e-07 -390.49 0.000 9.75e-06 .0000109

ln(hours) | 1 (exposure)

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

**. estat gof**

Deviance goodness-of-fit = 23701.43

Prob > chi2(30288) = 1.0000

Pearson goodness-of-fit = 486084.7

Prob > chi2(30288) = 0.0000

**. glm MR, family(nbinomial) link(log) vce(cl mineid) exposure(hours) eform**

Iteration 0: log pseudolikelihood = -20625.036

Iteration 1: log pseudolikelihood = -20305.405

Iteration 2: log pseudolikelihood = -20305.142

Iteration 3: log pseudolikelihood = -20305.142

Generalized linear models No. of obs = 30,289

Optimization : ML Residual df = 30,288

Scale parameter = 1

Deviance = 16187.10373 (1/df) Deviance = .5344395

Pearson = 455330.4212 (1/df) Pearson = 15.03336

Variance function: V(u) = u+(1)u^2 [Neg. Binomial]

Link function : g(u) = ln(u) [Log]

AIC = 1.340826

Log pseudolikelihood = -20305.14191 BIC = -296340.8

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

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| Robust

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

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

\_cons | .0000108 2.41e-07 -513.09 0.000 .0000104 .0000113

ln(hours) | 1 (exposure)

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

**. nbreg MR, vce(cl mineid) exposure(hours) irr**

Fitting Poisson model:

Iteration 0: log pseudolikelihood = -20357.315

Iteration 1: log pseudolikelihood = -20357.315

Fitting constant-only model:

Iteration 0: log pseudolikelihood = -20312.068

Iteration 1: log pseudolikelihood = -20051.526

Iteration 2: log pseudolikelihood = -20044.999

Iteration 3: log pseudolikelihood = -20044.994

Iteration 4: log pseudolikelihood = -20044.994

Fitting full model:

Iteration 0: log pseudolikelihood = -20044.994

Iteration 1: log pseudolikelihood = -20044.994

Negative binomial regression Number of obs = 30,289

Wald chi2(0) = .

Dispersion = mean Prob > chi2 = .

Log pseudolikelihood = -20044.994 Pseudo R2 = 0.0000

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

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

| Robust

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

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

\_cons | .0000106 2.57e-07 -473.67 0.000 .0000101 .0000111

ln(hours) | 1 (exposure)

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

/lnalpha | -1.024935 .0993919 -1.21974 -.8301309

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alpha | .3588197 .0356638 .295307 .4359922

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