



```

name: <unnamed>
log: C:\Users\Billy\Dropbox\SHR Research\Data - 4th submission\Revised Data\Re
> ady to merge\negative.smcl
log type: smcl
opened on: 20 Sep 2019, 11:03:19

```

```

1 .
2 . nbreg homicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco, offset(lnpop) vce(ro
> bust) irr
note: you are responsible for interpretation of non-count dep. variable

```

Fitting Poisson model:

```

Iteration 0: log pseudolikelihood = -279.69125
Iteration 1: log pseudolikelihood = -278.99042
Iteration 2: log pseudolikelihood = -278.9886
Iteration 3: log pseudolikelihood = -278.9886

```

Fitting constant-only model:

```

Iteration 0: log pseudolikelihood = -170.89608
Iteration 1: log pseudolikelihood = -132.18525
Iteration 2: log pseudolikelihood = -127.56619
Iteration 3: log pseudolikelihood = -126.75972
Iteration 4: log pseudolikelihood = -126.75883
Iteration 5: log pseudolikelihood = -126.75883

```

Fitting full model:

```

Iteration 0: log pseudolikelihood = -123.29702
Iteration 1: log pseudolikelihood = -122.18651
Iteration 2: log pseudolikelihood = -120.09814
Iteration 3: log pseudolikelihood = -120.07312
Iteration 4: log pseudolikelihood = -120.07308
Iteration 5: log pseudolikelihood = -120.07308

```

```

Negative binomial regression      Number of obs      =      39
                                Wald chi2(4)              =      7.69
Dispersion                      = mean                    =      0.1035
Log pseudolikelihood = -120.07308 Pseudo R2              =      0.0527

```

homicide	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
DiffFam_Eco	.8841866	.0478336	-2.28	0.023	.7952336	.9830896
DiffEdu_Eco	.9742142	.0360421	-0.71	0.480	.9060733	1.04748
DiffRel_Eco	1.131139	.0618721	2.25	0.024	1.016146	1.259146
DiffPol_Eco	.9993107	.0293618	-0.02	0.981	.9433883	1.058548
_cons	4.33e-07	1.87e-07	-33.99	0.000	1.86e-07	1.01e-06
lnpop	1	(offset)				
/lnalpha	.7750555	.2071175			.3691128	1.180998
alpha	2.170713	.4495925			1.446451	3.257625

```

3 . outreg2 using H_S.doc, replace ctitle(Model 1)
   H_S.doc
   dir : seeout

```

```

4 .
5 . nbreg homicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco GDP sexratio pcunemp
> pcurban, offset(lnpop) vce(robust) irr
note: you are responsible for interpretation of non-count dep. variable

```

Fitting Poisson model:

```

Iteration 0: log pseudolikelihood = -268.06937
Iteration 1: log pseudolikelihood = -266.68171
Iteration 2: log pseudolikelihood = -266.67754
Iteration 3: log pseudolikelihood = -266.67754

```

Fitting constant-only model:

```

Iteration 0: log pseudolikelihood = -170.89608
Iteration 1: log pseudolikelihood = -132.18525
Iteration 2: log pseudolikelihood = -127.56619
Iteration 3: log pseudolikelihood = -126.75972
Iteration 4: log pseudolikelihood = -126.75883
Iteration 5: log pseudolikelihood = -126.75883

```

Fitting full model:

```

Iteration 0: log pseudolikelihood = -119.66408
Iteration 1: log pseudolikelihood = -112.44234
Iteration 2: log pseudolikelihood = -111.14363
Iteration 3: log pseudolikelihood = -111.11754
Iteration 4: log pseudolikelihood = -111.11753

```

```

Negative binomial regression      Number of obs      =          39
                                Wald chi2(8)              =          40.28
Dispersion                      = mean                    =          0.0000
Log pseudolikelihood = -111.11753 Pseudo R2              =          0.1234

```

homicide	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
DiffFam_Eco	.9181947	.0321863	-2.43	0.015	.857229	.9834962
DiffEdu_Eco	.9635382	.0244241	-1.47	0.143	.9168375	1.012618
DiffRel_Eco	1.05736	.0330389	1.78	0.074	.9945475	1.124139
DiffPol_Eco	1.042053	.0271	1.58	0.113	.9902691	1.096545
GDP	1.022165	.1847779	0.12	0.903	.7172135	1.456779
sexratio	5.165999	13.10681	0.65	0.517	.0357722	746.0406
pcunemp	.9685932	.0444822	-0.69	0.487	.8852183	1.059821
pcurban	.9560539	.0093706	-4.59	0.000	.9378631	.9745975
_cons	1.50e-06	3.91e-06	-5.14	0.000	8.98e-09	.0002495
lnpop	1	(offset)				
/lnalpha	.3867187	.1977366			-.0008378	.7742752
alpha	1.472142	.2910963			.9991625	2.169019

```

6 . outreg2 using H_S.doc, append ctitle(Model 2)

```

H\_S.doc  
dir : seeout

```

7 .
8 . nbreg suicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco, offset(lnpop) vce(rob
> ust) irr
note: you are responsible for interpretation of non-count dep. variable

```

Fitting Poisson model:

```

Iteration 0: log pseudolikelihood = -394.47988
Iteration 1: log pseudolikelihood = -389.48735
Iteration 2: log pseudolikelihood = -389.48146
Iteration 3: log pseudolikelihood = -389.48146

```

Fitting constant-only model:

```

Iteration 0:  log pseudolikelihood = -219.58513
Iteration 1:  log pseudolikelihood = -156.2061
Iteration 2:  log pseudolikelihood = -154.89733
Iteration 3:  log pseudolikelihood = -154.89196
Iteration 4:  log pseudolikelihood = -154.89196

```

Fitting full model:

```

Iteration 0:  log pseudolikelihood = -154.89196
Iteration 1:  log pseudolikelihood = -151.7952
Iteration 2:  log pseudolikelihood = -151.44622
Iteration 3:  log pseudolikelihood = -151.44525
Iteration 4:  log pseudolikelihood = -151.44525

```

```

Negative binomial regression      Number of obs      =      39
                                Wald chi2(4)             =      7.49
Dispersion                      = mean                  Prob > chi2        =      0.1120
Log pseudolikelihood = -151.44525                      Pseudo R2         =      0.0223

```

suicide	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
DiffFam_Eco	.9420262	.0422455	-1.33	0.183	.862761	1.028574
DiffEdu_Eco	1.023607	.0204693	1.17	0.243	.9842639	1.064523
DiffRel_Eco	1.025631	.0467153	0.56	0.578	.9380382	1.121402
DiffPol_Eco	1.01277	.0178784	0.72	0.472	.9783284	1.048425
Cons	9.82e-07	2.93e-07	-46.33	0.000	5.47e-07	1.76e-06
lnpop	1	(offset)				
/lnalpha	.5547329	.1706744			.2202171	.8892487
alpha	1.741476	.2972254			1.246347	2.433301

9 . outreg2 using H\_S.doc, append ctitle(Model 3)

H\_S.doc

dir : seeout

10.

```

11. nbreg suicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco GDP sexratio pcunemp p
> curban, offset(lnpop) vce(robust) irr
note: you are responsible for interpretation of non-count dep. variable

```

Fitting Poisson model:

```

Iteration 0:  log pseudolikelihood = -370.39814
Iteration 1:  log pseudolikelihood = -357.30146
Iteration 2:  log pseudolikelihood = -357.1894
Iteration 3:  log pseudolikelihood = -357.18931
Iteration 4:  log pseudolikelihood = -357.18931

```

Fitting constant-only model:

```

Iteration 0:  log pseudolikelihood = -219.58513
Iteration 1:  log pseudolikelihood = -156.2061
Iteration 2:  log pseudolikelihood = -154.89733
Iteration 3:  log pseudolikelihood = -154.89196
Iteration 4:  log pseudolikelihood = -154.89196

```

Fitting full model:

```

Iteration 0:  log pseudolikelihood = -154.89196
Iteration 1:  log pseudolikelihood = -146.665
Iteration 2:  log pseudolikelihood = -145.14838
Iteration 3:  log pseudolikelihood = -145.12154
Iteration 4:  log pseudolikelihood = -145.1215
Iteration 5:  log pseudolikelihood = -145.1215

```

Negative binomial regression

Dispersion = **mean**  
 Log pseudolikelihood = **-145.1215**

Number of obs = **39**  
 Wald chi2(8) = **33.73**  
 Prob > chi2 = **0.0000**  
 Pseudo R2 = **0.0631**

suicide	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
DiffFam_Eco	.9365966	.0326237	-1.88	0.060	.8747891	1.002771
DiffEdu_Eco	1.013939	.0208957	0.67	0.502	.9737999	1.055732
DiffRel_Eco	.9917966	.0311013	-0.26	0.793	.9326747	1.054666
DiffPol_Eco	1.05329	.0230291	2.37	0.018	1.009107	1.099407
GDP	1.046044	.1227959	0.38	0.701	.8310488	1.316658
sexratio	.2740782	.4757216	-0.75	0.456	.0091292	8.228439
pcunemp	.9468164	.0582406	-0.89	0.374	.8392795	1.068132
pcurban	.9595787	.0091962	-4.31	0.000	.9417227	.9777733
cons	.0000702	.000139	-4.83	0.000	1.45e-06	.0033974
Inpop	1	(offset)				
/lnalpha	.2983057	.1781369			-.0508363	.6474476
alpha	1.347574	.2400526			.9504343	1.910658

12. outreg2 using H\_S.doc, append ctitle(Model 4)

H\_S.docdir : seeout

13. log close

name: &lt;unnamed&gt;

log: C:\Users\Billy\Dropbox\SHR Research\Data - 4th submission\Revised Data\Re

> **ady** to merge\negative.smcllog type: **smcl**closed on: **20 Sep 2019, 11:03:21**