



```

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: 27 Sep 2019, 11:41:49

```

```

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                Prob > chi2          =         0.1035
Log pseudolikelihood = -120.07308 Pseudo R2            =         0.0527

```

homicide	IRR	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
DiffFam_Eco	1.130983	.0611851	2.28	0.023	1.017201	1.257492
DiffEdu_Eco	1.026468	.0379753	0.71	0.480	.9546725	1.103663
DiffRel_Eco	.8840644	.0483574	-2.25	0.024	.7941894	.9841102
DiffPol_Eco	1.00069	.0294023	0.02	0.981	.9446903	1.060009
_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 . nbreg homicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco, offset(lnpop) vce(ro
> bust)
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
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```

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                    Prob > chi2         =          0.1035
Log pseudolikelihood = -120.07308 Pseudo R2            =          0.0527

```

homicide	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
DiffFam_Eco	.1230872	.054099	2.28	0.023	.017055	.2291193
DiffEdu_Eco	.0261241	.0369961	0.71	0.480	-.0463869	.098635
DiffRel_Eco	-.1232254	.0546989	-2.25	0.024	-.2304333	-.0160174
DiffPol_Eco	.0006896	.029382	0.02	0.981	-.0568982	.0582773
_cons	-14.6527	.4311151	-33.99	0.000	-15.49767	-13.80773
_lnpop	1	(offset)				
/lnalpha	.7750555	.2071175			.3691128	1.180998
alpha	2.170713	.4495925			1.446451	3.257625

- ```

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

5 .
6 . 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<br>Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|-------------|----------|---------------------|-------|-------|----------------------|----------|
| DiffFam_Eco | 1.089094 | .0381769            | 2.43  | 0.015 | 1.016781             | 1.166549 |
| DiffEdu_Eco | 1.037842 | .0263076            | 1.47  | 0.143 | .9875395             | 1.090706 |
| DiffRel_Eco | .9457521 | .0295516            | -1.78 | 0.074 | .88957               | 1.005482 |
| DiffPol_Eco | .9596438 | .0249569            | -1.58 | 0.113 | .911955              | 1.009826 |
| 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 |

```

7 . nbreg homicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco GDP sexratio pcunemp
> pcurban, offset(lnpop) vce(robust)
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    | Coef.     | Robust<br>Std. Err. | z     | P> z  | [95% Conf. Interval] |           |
|-------------|-----------|---------------------|-------|-------|----------------------|-----------|
| DiffFam_Eco | .0853459  | .0350539            | 2.43  | 0.015 | .0166415             | .1540502  |
| DiffEdu_Eco | .0371431  | .0253484            | 1.47  | 0.143 | -.0125388            | .086825   |
| DiffRel_Eco | -.0557748 | .0312466            | -1.78 | 0.074 | -.1170171            | .0054674  |
| DiffPol_Eco | -.0411931 | .0260064            | -1.58 | 0.113 | -.0921647            | .0097785  |
| GDP         | .021923   | .1807711            | 0.12  | 0.903 | -.3323817            | .3762278  |
| sexratio    | 1.642099  | 2.537129            | 0.65  | 0.517 | -3.330583            | 6.61478   |
| pcunemp     | -.0319106 | .0459246            | -0.69 | 0.487 | -.1219211            | .0580999  |
| pcurban     | -.044941  | .0098013            | -4.59 | 0.000 | -.0641512            | -.0257307 |
| cons        | -13.41212 | 2.61031             | -5.14 | 0.000 | -18.52823            | -8.296009 |
| lnpop       | 1         | (offset)            |       |       |                      |           |

|          |                 |                 |                  |                 |
|----------|-----------------|-----------------|------------------|-----------------|
| /lnalpha | <b>.3867187</b> | <b>.1977366</b> | <b>-.0008378</b> | <b>.7742752</b> |
| alpha    | <b>1.472142</b> | <b>.2910963</b> | <b>.9991625</b>  | <b>2.169019</b> |

8 . outreg2 using H\_S.doc, append ctitle(Model 2)

H\_S.doc

dir : seeout

9 .

10. 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<br>Std. Err. | z             | P> z         | [95% Conf. Interval] |                 |
|-------------|-----------------|---------------------|---------------|--------------|----------------------|-----------------|
| DiffFam_Eco | <b>1.061542</b> | <b>.0476052</b>     | <b>1.33</b>   | <b>0.183</b> | <b>.9722201</b>      | <b>1.159069</b> |
| DiffEdu_Eco | <b>.9769375</b> | <b>.019536</b>      | <b>-1.17</b>  | <b>0.243</b> | <b>.9393882</b>      | <b>1.015988</b> |
| DiffRel_Eco | <b>.9750099</b> | <b>.0444096</b>     | <b>-0.56</b>  | <b>0.578</b> | <b>.8917408</b>      | <b>1.066055</b> |
| DiffPol_Eco | <b>.9873908</b> | <b>.0174304</b>     | <b>-0.72</b>  | <b>0.472</b> | <b>.953812</b>       | <b>1.022152</b> |
| _cons       | <b>9.82e-07</b> | <b>2.93e-07</b>     | <b>-46.33</b> | <b>0.000</b> | <b>5.47e-07</b>      | <b>1.76e-06</b> |
| lnpop       | <b>1</b>        | (offset)            |               |              |                      |                 |
| /lnalpha    | <b>.5547329</b> | <b>.1706744</b>     |               |              | <b>.2202171</b>      | <b>.8892487</b> |
| alpha       | <b>1.741476</b> | <b>.2972254</b>     |               |              | <b>1.246347</b>      | <b>2.433301</b> |

11. nbreg suicide DiffFam\_Eco DiffEdu\_Eco DiffRel\_Eco DiffPol\_Eco, offset(lnpop) vce(rob  
> ust)

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     | Coef.     | Robust Std. Err. | z      | P> z  | [95% Conf. Interval] |           |
|-------------|-----------|------------------|--------|-------|----------------------|-----------|
| DiffFam_Eco | .0597222  | .0448454         | 1.33   | 0.183 | -.0281731            | .1476175  |
| DiffEdu_Eco | -.0233326 | .0199972         | -1.17  | 0.243 | -.0625264            | .0158612  |
| DiffRel_Eco | -.0253076 | .0455479         | -0.56  | 0.578 | -.1145798            | .0639646  |
| DiffPol_Eco | -.0126894 | .017653          | -0.72  | 0.472 | -.0472887            | .0219099  |
| Cons        | -13.83344 | .2985626         | -46.33 | 0.000 | -14.41861            | -13.24827 |
| lnpop       | 1         | (offset)         |        |       |                      |           |
| /lnalpha    | .5547329  | .1706744         |        |       | .2202171             | .8892487  |
| alpha       | 1.741476  | .2972254         |        |       | 1.246347             | 2.433301  |

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

H\_S.doc

dir : seeout

13.

14. 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 Number of obs = 39
 Wald chi2(8) = 33.73
Dispersion = mean Prob > chi2 = 0.0000
Log pseudolikelihood = -145.1215 Pseudo R2 = 0.0631

```

| suicide     | IRR      | Robust<br>Std. Err. | z     | P> z  | [95% Conf. Interval] |          |
|-------------|----------|---------------------|-------|-------|----------------------|----------|
| DiffFam_Eco | 1.067695 | .0371902            | 1.88  | 0.060 | .9972365             | 1.143133 |
| DiffEdu_Eco | .986253  | .0203252            | -0.67 | 0.502 | .9472102             | 1.026905 |
| DiffRel_Eco | 1.008271 | .0316179            | 0.26  | 0.793 | .9481673             | 1.072185 |
| DiffPol_Eco | .9494061 | .0207577            | -2.37 | 0.018 | .9095811             | .9909749 |
| 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 |
| lnpop       | 1        | (offset)            |       |       |                      |          |
| /lnalpha    | .2983057 | .1781369            |       |       | -.0508363            | .6474476 |
| alpha       | 1.347574 | .2400526            |       |       | .9504343             | 1.910658 |

```

15. nbreg suicide DiffFam_Eco DiffEdu_Eco DiffRel_Eco DiffPol_Eco GDP sexratio pcunemp p
> curban, offset(lnpop) vce(robust)
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 Number of obs = 39
 Wald chi2(8) = 33.73
Dispersion = mean Prob > chi2 = 0.0000
Log pseudolikelihood = -145.1215 Pseudo R2 = 0.0631

```

| suicide     | Coef.     | Robust<br>Std. Err. | z     | P> z  | [95% Conf. Interval] |           |
|-------------|-----------|---------------------|-------|-------|----------------------|-----------|
| DiffFam_Eco | .0655026  | .0348322            | 1.88  | 0.060 | -.0027673            | .1337725  |
| DiffEdu_Eco | -.0138424 | .0206085            | -0.67 | 0.502 | -.0542343            | .0265495  |
| DiffRel_Eco | .0082372  | .0313585            | 0.26  | 0.793 | -.0532243            | .0696988  |
| DiffPol_Eco | -.0519186 | .0218639            | -2.37 | 0.018 | -.0947711            | -.0090661 |
| GDP         | .045015   | .1173908            | 0.38  | 0.701 | -.1850667            | .2750967  |
| sexratio    | -1.294342 | 1.735715            | -0.75 | 0.456 | -4.69628             | 2.107596  |
| pcunemp     | -.0546501 | .0615121            | -0.89 | 0.374 | -.1752116            | .0659113  |
| pcurban     | -.0412609 | .0095836            | -4.31 | 0.000 | -.0600444            | -.0224774 |
| _cons       | -9.563778 | 1.979131            | -4.83 | 0.000 | -13.4428             | -5.684753 |

| lnpop    | 1 (offset) |          |           |          |
|----------|------------|----------|-----------|----------|
| /lnalpha | .2983057   | .1781369 | -.0508363 | .6474476 |
| alpha    | 1.347574   | .2400526 | .9504343  | 1.910658 |

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

H\_S.doc

dir : seeout

17. log close

name: <unnamed>

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

> **ady to merge\negative.smcl**

log type: **smcl**

closed on: **27 Sep 2019, 11:41:53**

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