Appendix 2

Stata Do File:

```
/*
Replication Do File for Dugan and Chenoweth's "Moving Beyond Deterrence: The Effectiveness of Raising the Expected Utility of Abstaining from Terrorism in Israel" (2012)

Ensure the following are installed prior to running:
// https://www.stata.com/statalist/archive/2008-03/msg01053.html
ssc desc gam
net get gam
!unzip gam.zip
ssc install estout
ssc install dups

Primary replication data contained in "GATE_GTD_Israel_monthly_data_STATA.dta", which was provided in replication zip folder by Dugan and Chenoweth. Replication code using this dataset were provided in Dugan and Chenoweth's Online Appendix and copied into this Do file.

Data for recreating Dugan and Chenoweth's GTD dataset were downloaded from https://www.start.umd.edu/gtd/access/ as an excel file: "globalterrorismdb_0221dist.xlsx". This file is used to create a dataset of GTD terrorist attacks according to Dugan and Chenoweth's parameters: "GTD_personal_rep_87-04.dta".
        This dataset is used to consider observation-level terrorist attack data and to differentiate Palestinian from Unknown perpetrators.
        This dataset is combined with Dugan and Chenoweth's GATE-Israel records to produce "GATE_GTD_Israel_monthly_data_ext.dta" as a direct replica of their provided dataset.

Data for expanding Dugan and Chenoweth's work using the RAND Database of Worldwide Terrorism Incidents (RDWTI) was downloaded from https://www.rand.org/nsrd/projects/terrorism-incidents/download.html as a csv: "RAND_Database_of_Worldwide_Terrorism_Incidents.csv". This file is used to create a dataset of RAND terrorist attacks according to parameters of Dugan and Chenoweth's study: "rand_terrorism_87-04.dta"
        This dataset is combined with Dugan and Chenoweth's GATE-Israel records to produce "GATE_RAND_Israel_monthly_data.dta" for the extension portion of the report.
*/

/*Dugan and Chenoweth Direct Replication Code*/
ssc install estout
ssc install dups

log using replication_log
```

```
use "GATE_GTD_Israel_monthly_data_STATA.dta"

sort mcount

/* All Actions */
nbreg att93miss L.allact firstint secondint GTD2 L.att93miss L2.att93miss L3.att93miss
L4.att93miss, exposure(popthou)
est sto m1

* By Tactical Regime;
nbreg att93miss L.allact L.att93miss L2.att93miss L3.att93miss L4.att93miss if firstint==1,
exposure(popthou)
nbreg att93miss L.allact GTD2 L.att93miss L2.att93miss L3.att93miss L4.att93miss if
oslolull==1, exposure(popthou)
nbreg att93miss L.allact L.att93miss L2.att93miss L3.att93miss L4.att93miss if secondint==1,
exposure(popthou)

/* Conciliatory and Repressive Actions */
nbreg att93miss L.concil concla2 L.repress firstint secondint GTD2 L.att93miss L2.att93miss
L3.att93miss L4.att93miss, exposure(popthou)
est sto m2

* By Tactical Regime;
nbreg att93miss L.concil concla2 L.repress L.att93miss L2.att93miss L3.att93miss L4.att93miss
if firstint==1, exposure(popthou)
nbreg att93miss L.concil concla2 L.repress GTD2 L.att93miss L2.att93miss L3.att93miss
L4.att93miss if oslolull==1, exposure(popthou)
nbreg att93miss L.concil L.repress L.att93miss L2.att93miss L3.att93miss L4.att93miss if
secondint==1, exposure(popthou)

/* Conciliatory/Repressive and Discriminate/Indiscriminate */
nbreg att93miss L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint GTD2
L.att93miss L2.att93miss L3.att93miss L4.att93miss, exposure(popthou)
est sto m3

* By Tactical Regime;
nbreg att93miss L.concdisc cdisla2 L.concindisc L.reprdisc L.reprindisc L.att93miss
L2.att93miss L3.att93miss L4.att93miss if firstint==1, exposure(popthou)
nbreg att93miss L.concdisc L.concindisc cindla2 L.reprdisc rdisla2 L.reprindisc GTD2
L.att93miss L2.att93miss L3.att93miss L4.att93miss if oslolull==1, exposure(popthou)
nbreg att93miss L.concdisc L.concindisc L.reprdisc L.reprindisc L.att93miss L2.att93miss
L3.att93miss L4.att93miss if secondint==1, exposure(popthou)


/* Create table of results for publication */
```

```
esttab m1 m2 m3 using dug_chen_orig.rtf, se varwidth(32) order(L.allact L.concil concla2 L.repress L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint GTD2 L.att93miss L2.att93miss L3.att93miss L4.att93miss) coeflabel(L.allact "All Actions" L.concil "Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc "Conciliatory-Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-Indiscriminate" firstint "First Intifada" secondint "Second Intifada" GTD2 "GTD2" L.att93miss "First Lagged Attacks" L2.att93miss "Second Lagged Attacks" L3.att93miss "Third Lagged Attacks" L4.att93miss "Fourth Lagged Attacks") title({\b Table 1.} Negative Binomial Coefficients and (SE), June 1987 through December 2004, n = 191 (Dugan Chenoweth Replication Data)) drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2" "Model 3") replace

clear


// Recreate Dugan & Chenoweth GTD counts from updated GTD data; add flag for Palestinian vs unknown perpetrators

import excel "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Chenoweth_Moving-beyond-deterrence\globalterrorismdb_0221dist.xlsx", firstrow

keep eventid iyear imonth iday approxdate extended resolution country country_txt region region_txt provstate city latitude longitude specificity vicinity location summary crit1 crit2 crit3 doubtterr alternative multiple success attacktype1 attacktype1_txt attacktype2 attacktype2_txt attacktype3 attacktype3_txt targtype1 targtype1_txt targsubtype1 corp1 target1 natlty1 natlty1_txt targtype2 targtype2_txt targsubtype2 corp2 target2 natlty2 natlty2_txt targtype3 targtype3_txt corp3 target3 natlty3 natlty3_txt gname gname2 gname3 guncertain1 guncertain2 individual claimed weaptype1 weaptype2 nkill nkillter nwound nwoundte addnotes scite1 scite2 scite3 dbsource

keep if (country == 97 | country == 155 ) & ( natlty1 == 97 | natlty2 == 97 | natlty3 == 97 )

save "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Chenoweth_Moving-beyond-deterrence\GTD_personal_rep.dta", replace

keep if ((iyear == 1987 & imonth >= 6) | iyear > 1987) & (iyear <= 2004)

save "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Chenoweth_Moving-beyond-deterrence\GTD_personal_rep_87-04.dta", replace

clear

// Terrorist Group Names.xlsx created by manually assigning each gname in the above dataset as a Palestine affiliate, Unknown, or non-Palestinian //
import excel "Terrorist Group Names.xlsx", firstrow
```

```
save "gname_affiliations.dta", replace

use "GTD_personal_rep_87-04.dta"

merge m:1 gname using "gname_affiliations.dta"

egen mo_yr = concat(imonth iyear), punct(-)

egen att_pal = sum(palestineaffiliate), by(mo_yr)
egen att_unk = sum(unknown), by(mo_yr)
egen att_palunk = rowtotal(att_pal-att_unk)
egen att_tot = count(eventid), by(mo_yr)

save "GTD_personal_rep_87-04.dta", replace


// Aggregate GTD records by month and year to merge with GATE-Israel data in
"GATE_GTD_Israel_monthly_data_STATA.dta"
keep iyear imonth mo_yr att_pal att_unk att_palunk att_tot

dups, drop key(mo_yr)
drop _expand

save "GTD_personal_rep_tomerge.dta", replace

use "GATE_GTD_Israel_monthly_data_STATA.dta"

egen mo_yr = concat(month year), punct(-)
merge 1:1 mo_yr using "GTD_personal_rep_tomerge.dta"

replace att_pal = 0 if missing(att_pal) & !missing(att93miss)
replace att_unk = 0 if missing(att_unk) & !missing(att93miss)
replace att_palunk = 0 if missing(att_palunk) & !missing(att93miss)
replace att_tot = 0 if missing(att_tot) & !missing(att93miss)

drop mo_yr imonth iyear

save "GATE_GTD_Israel_monthly_data_ext.dta", replace

// Run if want to compare Dugan & Chenoweth's counts with generated GTD counts
gen cnt_diff = att93miss - att_palunk
tab cnt_diff

// Percent of Palestinian-perpetrated attacks from all known perpetrators
summ att_pal
sca tot_pal = r(sum)
```

```
gen att_known = att_tot - att_unk
summ att_known
sca tot_known = r(sum)
display tot_pal / tot_known

// Avg % Palestinian-perpetrated attacks per month for all known perpetrators
gen pal_perc_kn = att_pal / att_known
mean(pal_perc_kn)

// Percent of Palestinian-perpetrated attacks from all perpetrators
summ att_pal
sca tot_pal = r(sum)
summ att_tot
sca tot_att = r(sum)
display tot_pal / tot_att

// Avg % Palestinian-perpetrated attacks per month for all perpetrators
gen pal_perc = att_pal / att_tot
mean(pal_perc)

// Percent of Known-Perpetrator attacks
summ att_known
sca tot_known = r(sum)
summ att_tot
sca tot_att = r(sum)
display tot_known / tot_att

// Generate summary statistics
total(att_palunk)
mean(att_palunk)
total(att_tot)
mean(att_tot)
total(att_pal)
mean(att_pal)
total(att_known)



// Run models with recreated GTD counts for Palestinian-only attacks (att_pal) and Palestinian
and Unknown attacks (att_palunk)


/* Conciliatory/Repressive and Discriminate/Indiscriminate */
sort mcount
```

```
nbreg att_palunk L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint
GTD2 L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk, exposure(popthou)
est sto m3

nbreg att_pal L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint GTD2
L.att_pal L2.att_pal L3.att_pal L4.att_pal, exposure(popthou)
est sto m3_pal

/* Conciliatory and Repressive Actions */

nbreg att_palunk L.concil concla2 L.repress firstint secondint GTD2 L.att_palunk L2.att_palunk
L3.att_palunk L4.att_palunk, exposure(popthou)
est sto m2

nbreg att_pal L.concil concla2 L.repress firstint secondint GTD2 L.att_pal L2.att_pal L3.att_pal
L4.att_pal, exposure(popthou)
est sto m2_pal

/* All Actions */

nbreg att_palunk L.allact firstint secondint GTD2 L.att_palunk L2.att_palunk L3.att_palunk
L4.att_palunk, exposure(popthou)
est sto m1

nbreg att_pal L.allact firstint secondint GTD2 L.att_pal L2.att_pal L3.att_pal L4.att_pal,
exposure(popthou)
est sto m1_pal


// Combine model results of Palestinian and Unknown attacks for presentation

esttab m1 m2 m3 using gtd_rep.rtf, se varwidth(32) order(L.allact L.concil concla2 L.repress
L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint GTD2 L.att_palunk
L2.att_palunk L3.att_palunk L4.att_palunk) coeflabel(L.allact "All Actions" L.concil
"Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc "Conciliatory-
Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-
Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-
Indiscriminate" firstint "First Intifada" secondint "Second Intifada" GTD2 "GTD2" L.att_palunk
"First Lagged Attacks" L2.att_palunk "Second Lagged Attacks" L3.att_palunk "Third Lagged
Attacks" L4.att_palunk "Fourth Lagged Attacks") title({\b Table 2.} Negative Binomial
Coefficients and (SE), June 1987 through December 2004, n = 191 (Recreated GTD dataset))
drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2" "Model 3") replace

// Combine model results of Palestinian-only attacks for presentation
```

```
esttab m1_pal m2_pal m3_pal using gtd_rep_pal.rtf, se varwidth(32) order(L.allact L.concil concla2 L.repress L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint GTD2 L.att_pal L2.att_pal L3.att_pal L4.att_pal) coeflabel(L.allact "All Actions" L.concil "Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc "Conciliatory-Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-Indiscriminate" firstint "First Intifada" secondint "Second Intifada" GTD2 "GTD2" L.att_pal "First Lagged Attacks" L2.att_pal "Second Lagged Attacks" L3.att_pal "Third Lagged Attacks" L4.att_pal "Fourth Lagged Attacks") title({\b Table 2.} Negative Binomial Coefficients and (SE), June 1987 through December 2004, n = 191 (Recreated GTD dataset, only Palestinian actors)) drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2" "Model 3") replace

clear


// Create monthly terrorist attack counts from RAND database

import delimited "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Chenoweth_Moving-beyond-deterrence\RAND_Database_of_Worldwide_Terrorism_Incidents\RAND_Database_of_Worldwide_Terrorism_Incidents.csv"

keep if (country == "Israel" | country == "West Bank/Gaza" )

gen inc_date = date(date, "DMY", 2009)

keep if inrange(inc_date,td(01jun1987),td(31dec2004))

save "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Chenoweth_Moving-beyond-deterrence\rand_terrorism_87-04.dta", replace

clear

// rand_perpetrator_affiliations.xlsx created by manually assigning each Perpetrator in the above dataset as a Palestine affiliate, Unknown, or non-Palestinian
import excel "rand_perpetrator_affiliations.xlsx", firstrow

save "rand_perp_affiliations.dta", replace


use "rand_terrorism_87-04.dta"

merge m:1 perpetrator using "rand_perp_affiliations.dta"

gen month=month(inc_date)
gen yr=year(inc_date)
```

```
egen mo_yr = concat(month yr), punct(-)

egen att_pal = sum(palestineaffiliate), by(mo_yr)
egen att_unk = sum(unknown), by(mo_yr)
egen att_tot = count(description), by(mo_yr)
egen att_palunk = rowtotal(att_pal-att_unk)

save "rand_terrorism_87-04.dta", replace


// Aggregate RAND terrorist attacks to month-year level to merge with GATE-Israel data in
"GATE_GTD_Israel_monthly_data_STATA.dta"
keep yr month mo_yr att_pal att_unk att_palunk att_tot

dups, drop key(mo_yr)
drop _expand

save "rand_terrorism_tomerge.dta", replace

use "GATE_GTD_Israel_monthly_data_STATA.dta"

egen mo_yr = concat(month year), punct(-)
merge 1:1 mo_yr using "rand_terrorism_tomerge.dta"

replace att_pal = 0 if missing(att_pal)
replace att_unk = 0 if missing(att_unk)
replace att_palunk = 0 if missing(att_palunk)
replace att_tot = 0 if missing(att_tot)
gen RAND2 = 1 if year >= 1998
replace RAND2 = 0 if missing(RAND2)

drop mo_yr month yr GTD2

save "GATE_RAND_Israel_monthly_data.dta", replace



// Run if want to compare RAND with Dugan and Chenoweth's GTD counts
gen pers_diff = att93miss - att_palunk
tab pers_diff

// Generate summary statistics - all years
total(att_palunk)
mean(att_palunk)
total(att_tot)
mean(att_tot)
```

```
total(att_pal)
mean(att_pal)

// Generate summary statistics - post-1998
total(att_palunk) if year >= 1998
mean(att_palunk) if year >= 1998
total(att_tot) if year >= 1998
mean(att_tot) if year >= 1998
total(att_pal) if year >= 1998
mean(att_pal) if year >= 1998

// Percent of Known-Perpetrator attacks - post-1998
summ att_tot
sca tot_att = r(sum)
gen att_known = att_tot - att_unk
summ att_known
sca tot_known = r(sum)
display tot_known / tot_att

// Percent of Palestinian-perpetrated attacks of known - post-1998
summ att_pal
sca tot_pal = r(sum)
//gen att_known = att_tot - att_unk
summ att_known
sca tot_known = r(sum)
display tot_pal / tot_known

// Avg % Palestinian-perpetrated attacks per month
gen pal_perc = att_pal / att_known
mean(pal_perc)


// Run RAND data models - all years

/* Conciliatory/Repressive and Discriminate/Indiscriminate */

sort mcount

nbreg att_palunk L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint
RAND2 L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk, exposure(popthou)
est sto m3

nbreg att_pal L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint RAND2
L.att_pal L2.att_pal L3.att_pal L4.att_pal, exposure(popthou)
est sto m3_pal
```

```
/* Conciliatory and Repressive Actions */

nbreg att_palunk L.concil concla2 L.repress firstint secondint RAND2 L.att_palunk
L2.att_palunk L3.att_palunk L4.att_palunk, exposure(popthou)
est sto m2

nbreg att_pal L.concil concla2 L.repress firstint secondint RAND2 L.att_pal L2.att_pal
L3.att_pal L4.att_pal, exposure(popthou)
est sto m2_pal

/* All Actions */

nbreg att_palunk L.allact firstint secondint RAND2 L.att_palunk L2.att_palunk L3.att_palunk
L4.att_palunk, exposure(popthou)
est sto m1

nbreg att_pal L.allact firstint secondint RAND2 L.att_pal L2.att_pal L3.att_pal L4.att_pal,
exposure(popthou)
est sto m1_pal

// Combine model results of Palestine-only attacks for publication
esttab m1_pal m2_pal m3_pal using rand_pal.rtf, se varwidth(32) order(L.allact L.concil concla2
L.repress L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint RAND2
L.att_pal L2.att_pal L3.att_pal L4.att_pal) coeflabel(L.allact "All Actions" L.concil
"Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc "Conciliatory-
Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-
Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-
Indiscriminate" firstint "First Intifada" secondint "Second Intifada" RAND2 "RAND2" L.att_pal
"First Lagged Attacks" L2.att_pal "Second Lagged Attacks" L3.att_pal "Third Lagged Attacks"
L4.att_pal "Fourth Lagged Attacks") title({\b Table 3.} Negative Binomial Coefficients and
(SE), June 1987 through December 2004, n = 207 (RAND Terrorism Database, confirmed
Palestinian-affiliated)) drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2"
"Model 3") replace

// Combine model results of Palestine and Unknown attacks for publication
esttab m1 m2 m3 using rand_palunk.rtf, se varwidth(32) order(L.allact L.concil concla2
L.repress L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstint secondint RAND2
L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk) coeflabel(L.allact "All Actions"
L.concil "Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc
"Conciliatory-Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-
Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-
Indiscriminate" firstint "First Intifada" secondint "Second Intifada" RAND2 "RAND2"
L.att_palunk "First Lagged Attacks" L2.att_palunk "Second Lagged Attacks" L3.att_palunk
"Third Lagged Attacks" L4.att_palunk "Fourth Lagged Attacks") title({\b Table 4.} Negative
Binomial Coefficients and (SE), June 1987 through December 2004, n = 207 (RAND Terrorism
```

Database)) drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2" "Model 3") replace

// Run Models - post-1998

/* Conciliatory/Repressive and Discriminate/Indiscriminate */

sort mcount

nbreg att_palunk L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc secondint L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk if year >= 1998, exposure(popthou)
est sto m3_trim

nbreg att_pal L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc secondint L.att_pal L2.att_pal L3.att_pal L4.att_pal if year >= 1998, exposure(popthou)
est sto m3_trimpal

/* Conciliatory and Repressive Actions */

nbreg att_palunk L.concil concla2 L.repress secondint L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk if year >= 1998, exposure(popthou)
est sto m2_trim

nbreg att_pal L.concil concla2 L.repress secondint L.att_pal L2.att_pal L3.att_pal L4.att_pal if year >= 1998, exposure(popthou)
est sto m2_trimpal

/* All Actions */

nbreg att_palunk L.allact secondint L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk if year >= 1998, exposure(popthou)
est sto m1_trim

nbreg att_pal L.allact secondint L.att_pal L2.att_pal L3.att_pal L4.att_pal if year >= 1998, exposure(popthou)
est sto m1_trimpal

// Combine models of Palestine-only attacks post-1998 for publication
esttab m1_trimpal m2_trimpal m3_trimpal using rand_pal_98.rtf, se varwidth(32) order(L.allact L.concil concla2 L.repress L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc secondint L.att_pal L2.att_pal L3.att_pal L4.att_pal) coeflabel(L.allact "All Actions" L.concil "Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc "Conciliatory-Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-

```
Indiscriminate" secondint "Second Intifada" L.att_pal "First Lagged Attacks" L2.att_pal "Second Lagged Attacks" L3.att_pal "Third Lagged Attacks" L4.att_pal "Fourth Lagged Attacks") title({\b Table 3.} Negative Binomial Coefficients and (SE), Jan 1998 through December 2004, n = 84 (RAND Terrorism Database, confirmed Palestinian-affiliated)) drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2" "Model 3") replace

// Combine models of Palestine and Unknown attacks post-1998 for publication
esttab m1_trim m2_trim m3_trim using rand_palunk_98.rtf, se varwidth(32) order(L.allact L.concil concla2 L.repress L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc secondint L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk) coeflabel(L.allact "All Actions" L.concil "Conciliatory" concla2 "Conciliatory^2" L.repress "Repressive" L.concdisc "Conciliatory-Discriminate" L.concindisc "Conciliatory-Indiscriminate" cindla2 "(Conciliatory-Indiscriminate)^2" L.reprdisc "Repressive-Discriminate" L.reprindisc "Repressive-Indiscriminate" secondint "Second Intifada" L.att_palunk "First Lagged Attacks" L2.att_palunk "Second Lagged Attacks" L3.att_palunk "Third Lagged Attacks" L4.att_palunk "Fourth Lagged Attacks") title({\b Table 4.} Negative Binomial Coefficients and (SE), Jan 1998 through December 2004, n = 84 (RAND Terrorism Database)) drop(_cons lnalpha) noobs nonumbers mtitle("Model 1" "Model 2" "Model 3") replace

log close
translate replication_log.smcl replication_log.log
```

Stata Selected Output (excluding combined esttab representations for an attempt at brevity):

```
.
. use "GATE_GTD_Israel_monthly_data_STATA.dta"

.
. sort mcount

.
. /* All Actions */
. nbreg att93miss L.allact firstint secondint GTD2 L.att93miss L2.att93miss L3.
> att93miss L4.att93miss, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -596.75231
Iteration 1:   log likelihood = -595.71721
Iteration 2:   log likelihood = -595.71526
Iteration 3:   log likelihood = -595.71526

Fitting constant-only model:

Iteration 0:   log likelihood = -547.64894
Iteration 1:   log likelihood =  -547.1875
Iteration 2:   log likelihood = -547.18687
Iteration 3:   log likelihood = -547.18687

Fitting full model:

Iteration 0:   log likelihood = -508.70529
Iteration 1:   log likelihood = -506.53765
Iteration 2:   log likelihood = -489.65563
Iteration 3:   log likelihood =  -488.6419
Iteration 4:   log likelihood = -488.63898
Iteration 5:   log likelihood = -488.63898

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(8)        =     117.10
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -488.63898                     Pseudo R2         =     0.1070

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
       L1. |   .0048216   .0042815     1.13   0.260      -.00357    .0132131
           |
```

```
   firstint |   .7321785   .1585557     4.62   0.000     .4214151    1.042942
  secondint |   1.262925   .2638796     4.79   0.000     .7457308     1.78012
       GTD2 |  -1.023311   .2545668    -4.02   0.000    -1.522252   -.5243688
            |
  att93miss |
         L1. |   .0231073   .0112614     2.05   0.040     .0010354    .0451792
         L2. |  -.0006846   .0095993    -0.07   0.943    -.0194988    .0181297
         L3. |   .0345852   .0105659     3.27   0.001     .0138765    .0552939
         L4. |   .0183108   .0107387     1.71   0.088    -.0027367    .0393583
             |
       _cons |  -7.819436   .1884326   -41.50   0.000    -8.188758   -7.450115
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -.9590632   .1632015                     -1.278932   -.6391942
-------------+----------------------------------------------------------------
       alpha |   .3832517   .0625473                      .2783343    .5277175
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 214.15              Prob >= chibar2 = 0.000

. est sto m1


.
. * By Tactical Regime;
. nbreg att93miss L.allact L.att93miss L2.att93miss L3.att93miss L4.att93miss i
> f firstint==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood =  -205.8924
Iteration 1:   log likelihood =  -205.8924

Fitting constant-only model:

Iteration 0:   log likelihood = -188.89022
Iteration 1:   log likelihood = -181.78763
Iteration 2:   log likelihood = -181.78396
Iteration 3:   log likelihood = -181.78396

Fitting full model:

Iteration 0:   log likelihood = -178.82254
Iteration 1:   log likelihood = -178.54652
Iteration 2:   log likelihood = -178.54445
Iteration 3:   log likelihood = -178.54445

Negative binomial regression                    Number of obs     =         61
```

```
                                  LR chi2(5)        =       6.48
Dispersion     = mean                 Prob > chi2       =     0.2624
Log likelihood = -178.54445           Pseudo R2         =     0.0178

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
       L1. |   .0146756    .010895     1.35   0.178    -.0066783    .0360294
           |
  att93miss |
       L1. |    .01113   .0193356     0.58   0.565    -.0267671    .0490271
       L2. |  -.0159356   .0184907    -0.86   0.389    -.0521766    .0203055
       L3. |   .0220208   .0180716     1.22   0.223    -.0133989    .0574404
       L4. |   .0170086   .0194736     0.87   0.382    -.0211589    .0551761
           |
     _cons |  -6.981134   .2759537   -25.30   0.000    -7.521994   -6.440275
ln(popthou) |          1  (exposure)
------------+-----------------------------------------------------------------
   /lnalpha |  -1.141312    .283626                     -1.697208    -.585415
------------+-----------------------------------------------------------------
      alpha |   .3193998   .0905901                      .1831942    .5568747
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 54.70                Prob >= chibar2 = 0.000

. nbreg att93miss L.allact GTD2 L.att93miss L2.att93miss L3.att93miss L4.att93m
> iss if oslolull==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -162.61854
Iteration 1:   log likelihood = -156.43743
Iteration 2:   log likelihood = -156.43371
Iteration 3:   log likelihood = -156.43371

Fitting constant-only model:

Iteration 0:   log likelihood = -174.69725
Iteration 1:   log likelihood = -173.75029
Iteration 2:   log likelihood = -173.74831
Iteration 3:   log likelihood = -173.74831

Fitting full model:

Iteration 0:   log likelihood = -159.58545
Iteration 1:   log likelihood =  -150.5202
```

```
Iteration 2:   log likelihood = -148.68141
Iteration 3:   log likelihood =  -148.5679
Iteration 4:   log likelihood = -148.56717
Iteration 5:   log likelihood = -148.56717

Negative binomial regression                    Number of obs     =         76
                                                LR chi2(6)        =      50.36
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -148.56717                     Pseudo R2         =     0.1449

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
       L1. |  -.0202926   .0124749    -1.63   0.104    -.0447429    .0041577
           |
      GTD2 |  -1.111398    .304625    -3.65   0.000    -1.708452   -.5143443
           |
  att93miss |
       L1. |   .0729707   .0337673     2.16   0.031     .006788    .1391533
       L2. |  -.0056752   .0327086    -0.17   0.862    -.0697829    .0584324
       L3. |   .0194482   .0312058     0.62   0.533     -.041714    .0806104
       L4. |   .0406395   .0279534     1.45   0.146    -.0141483    .0954272
           |
     _cons |  -7.375517   .3924157   -18.80   0.000    -8.144638   -6.606397
ln(popthou) |          1  (exposure)
------------+-----------------------------------------------------------------
   /lnalpha |  -1.107077    .422212                     -1.934597   -.2795567
------------+-----------------------------------------------------------------
      alpha |   .3305237   .1395511                      .1444825    .7561189
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 15.73                Prob >= chibar2 = 0.000

. nbreg att93miss L.allact L.att93miss L2.att93miss L3.att93miss L4.att93miss i
> f secondint==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -210.81698
Iteration 1:   log likelihood = -210.77752
Iteration 2:   log likelihood =  -210.7775

Fitting constant-only model:

Iteration 0:   log likelihood = -162.29866
Iteration 1:   log likelihood = -158.07583
```

```
Iteration 2:   log likelihood = -158.05628
Iteration 3:   log likelihood = -158.05628

Fitting full model:

Iteration 0:   log likelihood = -153.01591
Iteration 1:   log likelihood = -152.11786
Iteration 2:   log likelihood = -152.08242
Iteration 3:   log likelihood = -152.08239
Iteration 4:   log likelihood = -152.08239

Negative binomial regression                    Number of obs     =         52
                                                LR chi2(5)        =      11.95
Dispersion     = mean                           Prob > chi2       =     0.0355
Log likelihood = -152.08239                     Pseudo R2         =     0.0378

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
       L1. |   .0072504   .0053196     1.36   0.173    -.0031758    .0176766
           |
  att93miss |
       L1. |   .0153912   .0138786     1.11   0.267    -.0118103    .0425927
       L2. |  -.0017429   .0124074    -0.14   0.888    -.0260609    .0225751
       L3. |   .0332179   .0146574     2.27   0.023       .00449    .0619458
       L4. |   .0080438   .0138683     0.58   0.562    -.0191375    .0352251
           |
     _cons |  -7.525921   .2825079   -26.64   0.000    -8.079627   -6.972216
ln(popthou) |          1  (exposure)
------------+-----------------------------------------------------------------
   /lnalpha |  -.9478529   .2497701                     -1.437393   -.4583124
------------+-----------------------------------------------------------------
      alpha |   .3875723    .096804                      .2375462    .6323499
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 117.39              Prob >= chibar2 = 0.000

.
. /* Conciliatory and Repressive Actions */
. nbreg att93miss L.concil concla2 L.repress firstint secondint GTD2 L.att93mis
> s L2.att93miss L3.att93miss L4.att93miss, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood =   -587.243
Iteration 1:   log likelihood = -586.24681
```

```
Iteration 2:   log likelihood = -586.24481
Iteration 3:   log likelihood = -586.24481

Fitting constant-only model:

Iteration 0:   log likelihood = -547.64894
Iteration 1:   log likelihood =  -547.1875
Iteration 2:   log likelihood = -547.18687
Iteration 3:   log likelihood = -547.18687

Fitting full model:

Iteration 0:   log likelihood = -507.17368
Iteration 1:   log likelihood = -486.72687
Iteration 2:   log likelihood = -484.76919
Iteration 3:   log likelihood = -484.75867
Iteration 4:   log likelihood = -484.75867

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(10)       =     124.86
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -484.75867                     Pseudo R2         =     0.1141

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     concil |
       L1. |   .0484138   .0312955     1.55   0.122    -.0129244    .1097519
           |
    concla2 |  -.0027959    .001241    -2.25   0.024    -.0052283   -.0003635
           |
    repress |
       L1. |   .0085581   .0059497     1.44   0.150     -.003103    .0202192
           |
   firstint |   .6255994   .1845037     3.39   0.001     .2639789      .98722
  secondint |   1.120258   .2766812     4.05   0.000     .5779731    1.662543
       GTD2 |  -1.031789   .2524574    -4.09   0.000    -1.526597   -.5369819
           |
  att93miss |
       L1. |   .0248524   .0114197     2.18   0.030     .0024701    .0472347
       L2. |   .0039241   .0098691     0.40   0.691     -.015419    .0232671
       L3. |   .0348533   .0105541     3.30   0.001     .0141677    .0555389
       L4. |   .0200169    .010648     1.88   0.060    -.0008529    .0408866
           |
     _cons |  -7.932365   .2240893   -35.40   0.000    -8.371572   -7.493159
ln(popthou) |          1  (exposure)
```

```
-------------+----------------------------------------------------------------
   /lnalpha |  -1.014989   .1655617                -1.339484   -.6904939
-------------+----------------------------------------------------------------
      alpha |   .3624065   .0600006                 .2619809    .5013284
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 202.97            Prob >= chibar2 = 0.000

. est sto m2


.
. * By Tactical Regime;
. nbreg att93miss L.concil concla2 L.repress L.att93miss L2.att93miss L3.att93m
> iss L4.att93miss if firstint==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -196.22572
Iteration 1:   log likelihood = -196.22556
Iteration 2:   log likelihood = -196.22556

Fitting constant-only model:

Iteration 0:   log likelihood = -188.89022
Iteration 1:   log likelihood = -181.78763
Iteration 2:   log likelihood = -181.78396
Iteration 3:   log likelihood = -181.78396

Fitting full model:

Iteration 0:   log likelihood = -175.85565
Iteration 1:   log likelihood = -174.81234
Iteration 2:   log likelihood = -174.76894
Iteration 3:   log likelihood =  -174.7689
Iteration 4:   log likelihood =  -174.7689

Negative binomial regression                    Number of obs     =         61
                                                LR chi2(7)        =      14.03
Dispersion     = mean                           Prob > chi2       =     0.0506
Log likelihood =  -174.7689                     Pseudo R2         =     0.0386

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     concil |
       L1. |    .280443    .099631     2.81   0.005     .0851698    .4757161
           |
```

```
    concla2 |  -.0194952    .008112    -2.40   0.016    -.0353943    -.003596
            |
    repress |
       L1. |  -.0023882   .0136314    -0.18   0.861    -.0291052    .0243288
            |
  att93miss |
       L1. |   .0011769   .0185279     0.06   0.949    -.0351371    .0374908
       L2. |  -.0154531   .0175477    -0.88   0.379    -.0498459    .0189396
       L3. |  -.0005541   .0190831    -0.03   0.977    -.0379564    .0368481
       L4. |   .0410524   .0207162     1.98   0.048     .0004494    .0816553
            |
      _cons |  -7.245324   .2824408   -25.65   0.000    -7.798898    -6.69175
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
   /lnalpha |  -1.325246   .3017715                     -1.916707   -.7337848
-------------+----------------------------------------------------------------
      alpha |   .2657376    .080192                      .1470905    .4800885
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 42.91                Prob >= chibar2 = 0.000

. nbreg att93miss L.concil concla2 L.repress GTD2 L.att93miss L2.att93miss L3.a
> tt93miss L4.att93miss if oslolull==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -152.78609
Iteration 1:   log likelihood = -146.69838
Iteration 2:   log likelihood = -146.68884
Iteration 3:   log likelihood = -146.68884

Fitting constant-only model:

Iteration 0:   log likelihood = -174.69725
Iteration 1:   log likelihood = -173.75029
Iteration 2:   log likelihood = -173.74831
Iteration 3:   log likelihood = -173.74831

Fitting full model:

Iteration 0:   log likelihood =  -158.0291
Iteration 1:   log likelihood =  -148.0264
Iteration 2:   log likelihood = -144.69203
Iteration 3:   log likelihood = -143.38187
Iteration 4:   log likelihood = -143.28914
Iteration 5:   log likelihood =  -143.2816
Iteration 6:   log likelihood = -143.28159
```

```
Negative binomial regression                    Number of obs     =         76
                                                LR chi2(8)        =      60.93
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -143.28159                     Pseudo R2         =     0.1753

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     concil |
       L1. |   .1731201   .0640181     2.70   0.007     .0476468    .2985933
           |
    concla2 |   -.007393   .0022334    -3.31   0.001    -.0117704   -.0030156
           |
    repress |
       L1. |  -.0110518   .0150096    -0.74   0.462    -.0404701    .0183665
           |
      GTD2 |  -.7217739   .2967597    -2.43   0.015    -1.303412   -.1401355
           |
  att93miss |
       L1. |   .1012866   .0319331     3.17   0.002     .0386989    .1638743
       L2. |   .0016695   .0301157     0.06   0.956    -.0573562    .0606951
       L3. |   .0161243   .0275114     0.59   0.558     -.037797    .0700455
       L4. |   .0311295   .0248062     1.25   0.210    -.0174898    .0797488
           |
      _cons |  -8.713279   .5242745   -16.62   0.000    -9.740838    -7.68572
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
   /lnalpha |  -1.523985   .5436685                     -2.589556   -.4584145
-------------+----------------------------------------------------------------
      alpha |    .217842   .1184338                      .0750534    .6322854
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 6.81                 Prob >= chibar2 = 0.005

. nbreg att93miss L.concil L.repress L.att93miss L2.att93miss L3.att93miss L4.a
> tt93miss if secondint==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -197.64699
Iteration 1:   log likelihood = -197.54344
Iteration 2:   log likelihood = -197.54332
Iteration 3:   log likelihood = -197.54332

Fitting constant-only model:
```

```
Iteration 0:   log likelihood = -162.29866
Iteration 1:   log likelihood = -158.07583
Iteration 2:   log likelihood = -158.05628
Iteration 3:   log likelihood = -158.05628

Fitting full model:

Iteration 0:   log likelihood = -150.43434
Iteration 1:   log likelihood = -148.60836
Iteration 2:   log likelihood = -148.39165
Iteration 3:   log likelihood = -148.39068
Iteration 4:   log likelihood = -148.39068

Negative binomial regression                    Number of obs     =         52
                                                LR chi2(6)        =      19.33
Dispersion     = mean                           Prob > chi2       =     0.0036
Log likelihood = -148.39068                     Pseudo R2         =     0.0612

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     concil |
       L1. |  -.0535432   .0230924    -2.32   0.020    -.0988035    -.008283
           |
    repress |
       L1. |   .0205735   .0075542     2.72   0.006     .0057676    .0353794
           |
  att93miss |
       L1. |    .008929   .0133927     0.67   0.505    -.0173202    .0351781
       L2. |   .0097804   .0126483     0.77   0.439    -.0150099    .0345707
       L3. |   .0393543   .0146133     2.69   0.007     .0107128    .0679958
       L4. |   .0159031   .0132367     1.20   0.230    -.0100403    .0418465
           |
     _cons |  -7.583495   .2679498   -28.30   0.000    -8.108667   -7.058323
ln(popthou) |          1  (exposure)
------------+-----------------------------------------------------------------
   /lnalpha |  -1.123771   .2623629                     -1.637993   -.6095493
------------+-----------------------------------------------------------------
      alpha |   .3250517   .0852815                      .1943698    .5435958
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 98.31                Prob >= chibar2 = 0.000

.
. /* Conciliatory/Repressive and Discriminate/Indiscriminate */
. nbreg att93miss L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc first
> int secondint GTD2 L.att93miss L2.att93miss L3.att93miss L4.att93miss, exposu
```

```
> re(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -585.78892
Iteration 1:   log likelihood = -584.79911
Iteration 2:   log likelihood = -584.79713
Iteration 3:   log likelihood = -584.79713

Fitting constant-only model:

Iteration 0:   log likelihood = -547.64894
Iteration 1:   log likelihood =  -547.1875
Iteration 2:   log likelihood = -547.18687
Iteration 3:   log likelihood = -547.18687

Fitting full model:

Iteration 0:   log likelihood = -507.12022
Iteration 1:   log likelihood = -486.57444
Iteration 2:   log likelihood = -484.60206
Iteration 3:   log likelihood = -484.59107
Iteration 4:   log likelihood = -484.59106

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(12)       =     125.19
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -484.59106                     Pseudo R2         =     0.1144

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
   concdisc |
         L1. |  -.0025727   .0411091    -0.06   0.950    -.0831452    .0779997
             |
 concindisc |
         L1. |   .0510737   .0355492     1.44   0.151    -.0186014    .1207488
             |
    cindla2 |  -.0034413   .0015904    -2.16   0.030    -.0065585   -.0003241
             |
   reprdisc |
         L1. |   .0158859   .0150135     1.06   0.290    -.0135401    .0453119
             |
 reprindisc |
         L1. |   .0053762   .0081282     0.66   0.508    -.0105547    .0213072
             |
```

```
   firstint |   .6604086   .1905625     3.47   0.001     .2869129    1.033904
  secondint |     1.1532   .2777496     4.15   0.000     .6088208    1.697579
       GTD2 |   -1.02788   .2528338    -4.07   0.000    -1.523425    -.532335
            |
  att93miss |
         L1. |     .0254   .0114727     2.21   0.027     .0029139    .0478862
         L2. |   .0017546   .0098116     0.18   0.858    -.0174758    .0209849
         L3. |   .0340408   .0106948     3.18   0.001     .0130793    .0550023
         L4. |   .0202644   .0106822     1.90   0.058    -.0006724    .0412012
             |
       _cons |  -7.901549   .2207323   -35.80   0.000    -8.334177   -7.468922
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.019206   .1660539                     -1.344665   -.6937461
-------------+----------------------------------------------------------------
       alpha |   .3608814   .0599258                      .2606269    .4997006
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 200.41              Prob >= chibar2 = 0.000

. est sto m3


.
. * By Tactical Regime;
. nbreg att93miss L.concdisc cdisla2 L.concindisc L.reprdisc L.reprindisc L.att
> 93miss L2.att93miss L3.att93miss L4.att93miss if firstint==1, exposure(poptho
> u)

Fitting Poisson model:

Iteration 0:   log likelihood = -194.82023
Iteration 1:   log likelihood = -194.82015
Iteration 2:   log likelihood = -194.82015

Fitting constant-only model:

Iteration 0:   log likelihood = -188.89022
Iteration 1:   log likelihood = -181.78763
Iteration 2:   log likelihood = -181.78396
Iteration 3:   log likelihood = -181.78396

Fitting full model:

Iteration 0:   log likelihood = -176.06356
Iteration 1:   log likelihood =    -175.08
Iteration 2:   log likelihood =  -175.0509
Iteration 3:   log likelihood = -175.05088
```

```
Negative binomial regression                    Number of obs     =         61
                                                LR chi2(9)        =      13.47
Dispersion     = mean                           Prob > chi2       =     0.1426
Log likelihood = -175.05088                     Pseudo R2         =     0.0370

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
   concdisc |
       L1. |   .4756439   .2169036     2.19   0.028     .0505206    .9007671
           |
    cdisla2 |  -.1065427   .0514615    -2.07   0.038    -.2074054     -.00568
           |
 concindisc |
       L1. |   .0296406   .0422365     0.70   0.483    -.0531413    .1124226
           |
   reprdisc |
       L1. |   .0326759    .036842     0.89   0.375     -.039533    .1048848
           |
 reprindisc |
       L1. |  -.0113025   .0191731    -0.59   0.556     -.048881     .026276
           |
  att93miss |
       L1. |   .0022921   .0191903     0.12   0.905    -.0353202    .0399043
       L2. |  -.0120394   .0175634    -0.69   0.493     -.046463    .0223842
       L3. |   .0117619   .0176435     0.67   0.505    -.0228188    .0463425
       L4. |   .0268777   .0189278     1.42   0.156    -.0102202    .0639755
           |
     _cons |  -7.010207   .2622903   -26.73   0.000    -7.524287   -6.496128
ln(popthou) |          1  (exposure)
------------+-----------------------------------------------------------------
   /lnalpha |  -1.33955   .3084543                     -1.944109   -.7349904
------------+-----------------------------------------------------------------
      alpha |   .2619636   .0808038                      .1431147    .4795101
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 39.54                Prob >= chibar2 = 0.000

. nbreg att93miss L.concdisc L.concindisc cindla2 L.reprdisc rdisla2 L.reprindi
> sc GTD2 L.att93miss L2.att93miss L3.att93miss L4.att93miss if oslolull==1, ex
> posure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood =   -147.321
Iteration 1:   log likelihood = -134.05407
```

```
Iteration 2:   log likelihood = -133.95137
Iteration 3:   log likelihood = -133.95132
Iteration 4:   log likelihood = -133.95132

Fitting constant-only model:

Iteration 0:   log likelihood = -174.69725
Iteration 1:   log likelihood = -173.75029
Iteration 2:   log likelihood = -173.74831
Iteration 3:   log likelihood = -173.74831

Fitting full model:

Iteration 0:   log likelihood = -156.32027
Iteration 1:   log likelihood = -141.42389
Iteration 2:   log likelihood = -135.80908
Iteration 3:   log likelihood = -134.51578
Iteration 4:   log likelihood = -134.11529
Iteration 5:   log likelihood = -134.01209
Iteration 6:   log likelihood = -133.96888
Iteration 7:   log likelihood = -133.95566
Iteration 8:   log likelihood = -133.95235
Iteration 9:   log likelihood = -133.95156
Iteration 10:  log likelihood = -133.95137
Iteration 11:  log likelihood = -133.95133
Iteration 12:  log likelihood = -133.95132

Negative binomial regression                    Number of obs     =         76
                                                LR chi2(11)       =      79.59
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -133.95132                     Pseudo R2         =     0.2290

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
   concdisc |
       L1. |  -.0630349   .0453828    -1.39   0.165    -.1519836    .0259138
           |
 concindisc |
       L1. |   .1727689   .0588325     2.94   0.003     .0574594    .2880785
           |
    cindla2 |    -.00887    .002439    -3.64   0.000    -.0136503   -.0040896
           |
   reprdisc |
       L1. |    .489783   .1542231     3.18   0.001     .1875114    .7920547
           |
```

```
    rdisla2 |  -.0651955   .0167274    -3.90   0.000    -.0979806   -.0324103
            |
 reprindisc |
       L1. |   .0097333   .0127813     0.76   0.446    -.0153175    .0347841
            |
      GTD2 |  -.5436324   .2653406    -2.05   0.040    -1.063691   -.0235744
            |
  att93miss |
       L1. |   .0654884   .0216804     3.02   0.003     .0229955    .1079813
       L2. |   .0175687   .0211099     0.83   0.405    -.0238059    .0589434
       L3. |    .017371    .018575     0.94   0.350    -.0190354    .0537774
       L4. |   .0240356   .0166896     1.44   0.150    -.0086755    .0567466
            |
      _cons |  -9.260754   .4737973   -19.55   0.000    -10.18938   -8.332128
ln(popthou) |          1  (exposure)
------------+----------------------------------------------------------------
   /lnalpha |  -15.22214   1068.445                -2109.337    2078.893
------------+----------------------------------------------------------------
      alpha |   2.45e-07   .0002617                       0           .
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 0.0e+00             Prob >= chibar2 = 0.500

. nbreg att93miss L.concdisc L.concindisc L.reprdisc L.reprindisc L.att93miss L
> 2.att93miss L3.att93miss L4.att93miss if secondint==1, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -197.05373
Iteration 1:   log likelihood =  -196.9506
Iteration 2:   log likelihood = -196.95046
Iteration 3:   log likelihood = -196.95046

Fitting constant-only model:

Iteration 0:   log likelihood = -162.29866
Iteration 1:   log likelihood = -158.07583
Iteration 2:   log likelihood = -158.05628
Iteration 3:   log likelihood = -158.05628

Fitting full model:

Iteration 0:   log likelihood = -150.48232
Iteration 1:   log likelihood = -148.63063
Iteration 2:   log likelihood =  -148.3779
Iteration 3:   log likelihood = -148.37663
Iteration 4:   log likelihood = -148.37663
```

```
Negative binomial regression                    Number of obs     =         52
                                                LR chi2(8)        =      19.36
Dispersion     = mean                           Prob > chi2       =     0.0131
Log likelihood = -148.37663                     Pseudo R2         =     0.0612

------------------------------------------------------------------------------
  att93miss |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
   concdisc |
         L1. |  -.0413092   .0767883    -0.54   0.591    -.1918114    .1091931
             |
 concindisc |
         L1. |  -.0548913   .0244743    -2.24   0.025    -.1028601   -.0069224
             |
  reprdisc |
         L1. |   .0205635   .0169436     1.21   0.225    -.0126455    .0537724
             |
 reprindisc |
         L1. |   .0203565   .0103691     1.96   0.050     .0000334    .0406797
             |
  att93miss |
         L1. |   .0088625   .0138054     0.64   0.521    -.0181955    .0359205
         L2. |   .0101418   .0129399     0.78   0.433    -.0152199    .0355036
         L3. |   .0388156   .0149373     2.60   0.009     .0095391    .0680921
         L4. |   .0157288   .0132099     1.19   0.234    -.0101622    .0416198
             |
       _cons |  -7.583325   .2686585   -28.23   0.000    -8.109886   -7.056764
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.125588    .262855                     -1.640774   -.6104017
-------------+----------------------------------------------------------------
       alpha |   .3244616   .0852863                      .1938299    .5431326
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 97.15               Prob >= chibar2 = 0.000


.
. clear

.
.
. // Recreate Dugan & Chenoweth GTD counts from updated GTD data; add flag for
> Palestinian vs unknown perpetrators
.
. import excel "C:\Users\natra\Documents\Education\UChicago\Quantitative Securi
```

```
> ty\Dugan-Chenoweth_Moving-beyond-deterrence\globalterrorismdb_0221dist.xlsx",
>  firstrow
(135 vars, 201,183 obs)

.
. keep eventid iyear imonth iday approxdate extended resolution country country
> _txt region region_txt provstate city latitude longitude specificity vicinity
>  location summary crit1 crit2 crit3 doubtterr alternative multiple success at
> tacktype1 attacktype1_txt attacktype2 attacktype2_txt attacktype3 attacktype3
> _txt targtype1 targtype1_txt targsubtype1 corp1 target1 natlty1 natlty1_txt t
> argtype2 targtype2_txt targsubtype2 corp2 target2 natlty2 natlty2_txt targtyp
> e3 targtype3_txt corp3 target3 natlty3 natlty3_txt gname gname2 gname3 guncer
> tain1 guncertain2 individual claimed weaptype1 weaptype2 nkill nkillter nwoun
> d nwoundte addnotes scite1 scite2 scite3 dbsource

.
. keep if (country == 97 | country == 155 ) & ( natlty1 == 97 | natlty2 == 97 |
>  natlty3 == 97 )
(197,478 observations deleted)

.
. save "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan
> -Chenoweth_Moving-beyond-deterrence\GTD_personal_rep.dta", replace
file C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Ch
> enoweth_Moving-beyond-deterrence\GTD_personal_rep.dta saved

.
. keep if ((iyear == 1987 & imonth >= 6) | iyear > 1987) & (iyear <= 2004)
(2,391 observations deleted)

.
. save "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan
> -Chenoweth_Moving-beyond-deterrence\GTD_personal_rep_87-04.dta", replace
file C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Ch
> enoweth_Moving-beyond-deterrence\GTD_personal_rep_87-04.dta saved

.
. clear

.
. // Terrorist Group Names.xlsx created by manually assigning each gname in the
>  above dataset as a Palestine affiliate, Unknown, or non-Palestinian //
. import excel "Terrorist Group Names.xlsx", firstrow
(4 vars, 64 obs)

. save "gname_affiliations.dta", replace
```

```
file gname_affiliations.dta saved

.
. use "GTD_personal_rep_87-04.dta"

.
. merge m:1 gname using "gname_affiliations.dta"

    Result                      # of obs.
    -----------------------------------------
    not matched                        19
        from master                     0  (_merge==1)
        from using                     19  (_merge==2)

    matched                         1,314  (_merge==3)
    -----------------------------------------

.
. egen mo_yr = concat(imonth iyear), punct(-)

.
. egen att_pal = sum(palestineaffiliate), by(mo_yr)

. egen att_unk = sum(unknown), by(mo_yr)

. egen att_palunk = rowtotal(att_pal-att_unk)

. egen att_tot = count(eventid), by(mo_yr)

.
. save "GTD_personal_rep_87-04.dta", replace
file GTD_personal_rep_87-04.dta saved

.
.
. // Aggregate GTD records by month and year to merge with GATE-Israel data in
> "GATE_GTD_Israel_monthly_data_STATA.dta"
. keep iyear imonth mo_yr att_pal att_unk att_palunk att_tot

.
. dups, drop key(mo_yr)

group by: iyear imonth mo_yr att_pal att_unk att_palunk att_tot

groups formed: 152 containing 1305 observations
unique observations: 28
```

groups of duplicate observations:

_group	_count	mo_yr
1	6	6-1987
2	6	8-1987
3	2	10-1987
4	4	11-1987
5	5	12-1987
6	4	2-1988
7	12	3-1988
8	3	4-1988
9	4	5-1988
10	8	6-1988
11	2	7-1988
12	7	8-1988
13	9	10-1988
14	2	12-1988
15	11	1-1989
16	5	2-1989
17	8	3-1989
18	12	4-1989
19	12	5-1989
20	8	6-1989
21	5	7-1989
22	8	8-1989
23	17	9-1989
24	10	11-1989
25	6	12-1989
26	14	1-1990
27	3	2-1990
28	11	4-1990
29	9	5-1990
30	13	6-1990
31	4	7-1990
32	4	8-1990
33	10	9-1990
34	15	10-1990
35	10	11-1990

36	13	12-1990
37	12	3-1991
38	5	4-1991
39	4	5-1991
40	8	7-1991
41	19	8-1991
42	7	9-1991
43	10	10-1991
44	22	11-1991
45	5	12-1991
46	8	1-1992
47	16	2-1992
48	13	3-1992
49	6	4-1992
50	9	5-1992
51	9	6-1992
52	8	7-1992
53	7	8-1992
54	15	9-1992
55	17	10-1992
56	16	11-1992
57	10	12-1992
58	19	1-1994
59	13	2-1994
60	23	3-1994
61	23	4-1994
62	20	5-1994
63	8	6-1994
64	11	7-1994
65	15	8-1994
66	5	9-1994
67	12	10-1994
68	12	11-1994
69	12	12-1994
70	14	1-1995
71	2	2-1995
72	3	3-1995
73	2	4-1995

74	4	5-1995
75	7	6-1995
76	5	7-1995
77	4	8-1995
78	5	9-1995
79	6	11-1995
80	5	12-1995
81	5	1-1996
82	5	2-1996
83	5	3-1996
84	4	4-1996
85	6	5-1996
86	5	6-1996
87	8	12-1996
88	2	1-1997
89	3	3-1997
90	9	4-1997
91	4	7-1997
92	2	2-1998
93	2	3-1998
94	2	7-1998
95	3	8-1998
96	2	9-1998
97	6	10-1998
98	4	8-1999
99	2	9-1999
100	4	5-2000
101	4	8-2000
102	3	9-2000
103	6	10-2000
104	14	11-2000
105	5	12-2000
106	8	1-2001
107	5	2-2001
108	14	3-2001
109	12	4-2001
110	18	5-2001
111	5	6-2001

112	6	7-2001
113	51	8-2001
114	17	9-2001
115	10	10-2001
116	14	11-2001
117	12	12-2001
118	8	1-2002
119	35	2-2002
120	25	3-2002
121	9	4-2002
122	14	5-2002
123	12	6-2002
124	9	7-2002
125	7	8-2002
126	2	9-2002
127	6	10-2002
128	12	11-2002
129	2	12-2002
130	7	1-2003
131	6	2-2003
132	14	3-2003
133	8	4-2003
134	13	5-2003
135	7	6-2003
136	3	7-2003
137	5	8-2003
138	3	9-2003
139	3	10-2003
140	3	11-2003
141	6	12-2003
142	6	1-2004
143	3	3-2004
144	5	4-2004
145	2	5-2004
146	5	6-2004
147	3	7-2004
148	7	8-2004
149	5	9-2004
150	4	11-2004

```
  |--------------------------|
  |   151       2   12-2004 |
  |   152      19       .-. |
  +--------------------------+

(1,153 observations deleted)

observations remaining: 180

. drop _expand

.
. save "GTD_personal_rep_tomerge.dta", replace
file GTD_personal_rep_tomerge.dta saved

.
. use "GATE_GTD_Israel_monthly_data_STATA.dta"

.
. egen mo_yr = concat(month year), punct(-)

. merge 1:1 mo_yr using "GTD_personal_rep_tomerge.dta"

    Result                      # of obs.
    -----------------------------------------
    not matched                        33
        from master                    32  (_merge==1)
        from using                     1  (_merge==2)

    matched                           179  (_merge==3)
    -----------------------------------------

.
. replace att_pal = 0 if missing(att_pal) & !missing(att93miss)
(20 real changes made)

. replace att_unk = 0 if missing(att_unk) & !missing(att93miss)
(20 real changes made)

. replace att_palunk = 0 if missing(att_palunk) & !missing(att93miss)
(20 real changes made)

. replace att_tot = 0 if missing(att_tot) & !missing(att93miss)
(20 real changes made)

.
```

```
. drop mo_yr imonth iyear

.
. save "GATE_GTD_Israel_monthly_data_ext.dta", replace
file GATE_GTD_Israel_monthly_data_ext.dta saved

.
. // Run if want to compare Dugan & Chenoweth's counts with generated GTD count
> s
. gen cnt_diff = att93miss - att_palunk
(13 missing values generated)

. tab cnt_diff

  cnt_diff |      Freq.     Percent        Cum.
-----------+-----------------------------------
        -7 |          2        1.01        1.01
        -5 |          2        1.01        2.01
        -3 |          1        0.50        2.51
        -2 |          9        4.52        7.04
        -1 |         19        9.55       16.58
         0 |        155       77.89       94.47
         1 |          9        4.52       98.99
         2 |          2        1.01      100.00
-----------+-----------------------------------
     Total |        199      100.00

.
. // Percent of Palestinian-perpetrated attacks from all known perpetrators
. summ att_pal

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     att_pal |       200        4.37    4.962482         0         25

. sca tot_pal = r(sum)

. gen att_known = att_tot - att_unk
(12 missing values generated)

. summ att_known

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
   att_known |       200        4.61    5.010331         0         25
```

```
. sca tot_known = r(sum)

. display tot_pal / tot_known
.94793926


.
. // Avg % Palestinian-perpetrated attacks per month for all known perpetrators
. gen pal_perc_kn = att_pal / att_known
(57 missing values generated)

. mean(pal_perc_kn)

Mean estimation                 Number of obs   =       155

--------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
 pal_perc_kn |   .8961965   .0201498      .8563908    .9360023
--------------------------------------------------------------


.
. // Percent of Palestinian-perpetrated attacks from all perpetrators
. summ att_pal

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     att_pal |       200        4.37    4.962482         0         25

. sca tot_pal = r(sum)

. summ att_tot

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     att_tot |       200        6.57    6.626815         0         51

. sca tot_att = r(sum)

. display tot_pal / tot_att
.6651446


.
. // Avg % Palestinian-perpetrated attacks per month for all perpetrators
. gen pal_perc = att_pal / att_tot
(33 missing values generated)
```

```
. mean(pal_perc)

Mean estimation                 Number of obs   =        179

--------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
    pal_perc |   .5899759   .0271514      .5363958    .6435561
--------------------------------------------------------------

.
. // Percent of Known-Perpetrator attacks
. summ att_known

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
   att_known |        200        4.61    5.010331         0         25

. sca tot_known = r(sum)

. summ att_tot

    Variable |        Obs        Mean    Std. Dev.       Min        Max
-------------+---------------------------------------------------------
     att_tot |        200        6.57    6.626815         0         51

. sca tot_att = r(sum)

. display tot_known / tot_att
.70167428

.
. // Generate summary statistics
. total(att_palunk)

Total estimation                Number of obs   =        200

--------------------------------------------------------------
             |      Total   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
  att_palunk |       1266   92.56925      1083.457    1448.543
--------------------------------------------------------------

. mean(att_palunk)

Mean estimation                 Number of obs   =        200
```

```
------------------------------------------------------------
             |      Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
  att_palunk |      6.33   .4628462      5.417287    7.242713
------------------------------------------------------------
```

```
. total(att_tot)

Total estimation                  Number of obs   =        200

------------------------------------------------------------
             |     Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
     att_tot |      1314   93.71731      1129.194    1498.806
------------------------------------------------------------
```

```
. mean(att_tot)

Mean estimation                   Number of obs   =        200

------------------------------------------------------------
             |      Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
     att_tot |      6.57   .4685866      5.645968    7.494032
------------------------------------------------------------
```

```
. total(att_pal)

Total estimation                  Number of obs   =        200

------------------------------------------------------------
             |     Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
     att_pal |       874    70.1801      735.6079    1012.392
------------------------------------------------------------
```

```
. mean(att_pal)

Mean estimation                   Number of obs   =        200

------------------------------------------------------------
             |      Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
     att_pal |      4.37   .3509005      3.678039    5.061961
------------------------------------------------------------
```

```
. total(att_known)

Total estimation                  Number of obs   =        200

------------------------------------------------------------------
             |      Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------------
   att_known |        922   70.85678      782.2735    1061.726
------------------------------------------------------------------


.
.
.
. // Run models with recreated GTD counts for Palestinian-only attacks (att_pal
> ) and Palestinian and Unknown attacks (att_palunk)
.
.
. /* Conciliatory/Repressive and Discriminate/Indiscriminate */
. sort mcount


.
. nbreg att_palunk L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firs
> tint secondint GTD2 L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk, e
> xposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -591.83659
Iteration 1:   log likelihood = -590.69081
Iteration 2:   log likelihood = -590.68658
Iteration 3:   log likelihood = -590.68658

Fitting constant-only model:

Iteration 0:   log likelihood = -554.68059
Iteration 1:   log likelihood =  -554.3128
Iteration 2:   log likelihood = -554.31245
Iteration 3:   log likelihood = -554.31245

Fitting full model:

Iteration 0:   log likelihood = -513.73876
Iteration 1:   log likelihood = -491.97364
Iteration 2:   log likelihood = -489.83647
Iteration 3:   log likelihood = -489.81771
```

```
Iteration 4:   log likelihood = -489.81771

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(12)       =     128.99
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -489.81771                     Pseudo R2         =     0.1164

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    concdisc |
          L1. |  -.0040176   .0402309    -0.10   0.920    -.0828686    .0748335
              |
  concindisc |
          L1. |   .0408028    .034876     1.17   0.242     -.027553    .1091585
              |
     cindla2 |  -.0029262   .0015318    -1.91   0.056    -.0059284     .000076
              |
    reprdisc |
          L1. |   .0139588   .0147401     0.95   0.344    -.0149313    .0428488
              |
  reprindisc |
          L1. |   .0057565   .0080341     0.72   0.474    -.0099901     .021503
              |
    firstint |   .6256768   .1874373     3.34   0.001     .2583065    .9930472
   secondint |   1.136625   .2760348     4.12   0.000     .5956063    1.677643
        GTD2 |  -1.021481   .2488955    -4.10   0.000    -1.509307   -.5336544
              |
  att_palunk |
          L1. |   .0259768   .0106615     2.44   0.015     .0050806    .0468729
          L2. |   .0019194   .0096662     0.20   0.843    -.0170261    .0208649
          L3. |   .0313674   .0101522     3.09   0.002     .0114694    .0512653
          L4. |   .0220503   .0105309     2.09   0.036     .0014102    .0426904
              |
        _cons |  -7.841774   .2183511   -35.91   0.000    -8.269735   -7.413814
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.043556   .1668915                      -1.370657   -.7164542
-------------+----------------------------------------------------------------
       alpha |   .3522002   .0587792                       .2539401    .4884812
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 201.74              Prob >= chibar2 = 0.000

. est sto m3

.
```

```
. nbreg att_pal L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstin
> t secondint GTD2 L.att_pal L2.att_pal L3.att_pal L4.att_pal, exposure(popthou
> )

Fitting Poisson model:

Iteration 0:   log likelihood = -463.22113
Iteration 1:   log likelihood = -461.27946
Iteration 2:   log likelihood =  -461.2589
Iteration 3:   log likelihood = -461.25888

Fitting constant-only model:

Iteration 0:   log likelihood = -485.97042
Iteration 1:   log likelihood = -483.22476
Iteration 2:   log likelihood = -483.22141
Iteration 3:   log likelihood = -483.22141

Fitting full model:

Iteration 0:   log likelihood = -443.69943
Iteration 1:   log likelihood = -427.88389
Iteration 2:   log likelihood = -416.67331
Iteration 3:   log likelihood = -409.76848
Iteration 4:   log likelihood = -408.98942
Iteration 5:   log likelihood = -408.97793
Iteration 6:   log likelihood = -408.97793

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(12)       =     148.49
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -408.97793                     Pseudo R2         =     0.1536

------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
   concdisc |
        L1. |  -.0295666   .0482645    -0.61   0.540    -.1241632    .0650301
            |
  concindisc |
        L1. |    .010202   .0382431     0.27   0.790    -.0647532    .0851572
            |
    cindla2 |  -.0015635   .0017233    -0.91   0.364    -.0049411     .001814
            |
   reprdisc |
        L1. |   .0097031   .0162956     0.60   0.552    -.0222357    .0416419
```

```
             |
  reprindisc |
          L1. |   .0106336   .0084745     1.25   0.210    -.0059762    .0272434
             |
     firstint |    .867487   .2161064     4.01   0.000     .4439263    1.291048
    secondint |   1.634517   .3698473     4.42   0.000     .9096292    2.359404
         GTD2 |  -1.233671   .3546363    -3.48   0.001    -1.928746   -.5385969
             |
      att_pal |
          L1. |    .036076   .0165162     2.18   0.029     .0037048    .0684473
          L2. |   .0264248   .0154159     1.71   0.087    -.0037899    .0566395
          L3. |   .0403014   .0160985     2.50   0.012     .0087489     .071854
          L4. |   .0353383   .0162718     2.17   0.030     .0034461    .0672305
             |
        _cons |  -8.536063   .2476058   -34.47   0.000    -9.021361   -8.050764
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -.9911724   .2049674                     -1.392901   -.5894436
-------------+----------------------------------------------------------------
       alpha |   .3711413   .0760719                      .2483538    .5546358
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 104.56              Prob >= chibar2 = 0.000

.
.
. /* Conciliatory and Repressive Actions */
.
. nbreg att_palunk L.concil concla2 L.repress firstint secondint GTD2 L.att_pal
> unk L2.att_palunk L3.att_palunk L4.att_palunk, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -592.35437
Iteration 1:   log likelihood =  -591.2314
Iteration 2:   log likelihood =  -591.2273
Iteration 3:   log likelihood =  -591.2273

Fitting constant-only model:

Iteration 0:   log likelihood = -554.68059
Iteration 1:   log likelihood =  -554.3128
Iteration 2:   log likelihood = -554.31245
Iteration 3:   log likelihood = -554.31245

Fitting full model:
```

```
Iteration 0:   log likelihood = -513.57552
Iteration 1:   log likelihood = -491.74229
Iteration 2:   log likelihood = -489.59097
Iteration 3:   log likelihood = -489.57226
Iteration 4:   log likelihood = -489.57226

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(10)       =     129.48
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -489.57226                     Pseudo R2         =     0.1168

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      concil |
        L1. |   .0450596   .0308222     1.46   0.144    -.0153509      .10547
            |
     concla2 |  -.0026541   .0012103    -2.19   0.028    -.0050264   -.0002819
            |
     repress |
        L1. |   .0080251   .0059352     1.35   0.176    -.0036076    .0196578
            |
    firstint |   .6020958   .1808513     3.33   0.001     .2476337    .9565578
   secondint |   1.108856   .2745205     4.04   0.000     .5708054    1.646906
        GTD2 |   -1.02499   .2482076    -4.13   0.000    -1.511468   -.5385118
            |
  att_palunk |
        L1. |   .0253353   .0104828     2.42   0.016     .0047894    .0458812
        L2. |   .0037261   .0096993     0.38   0.701    -.0152842    .0227365
        L3. |   .0319267   .0100526     3.18   0.001      .012224    .0516294
        L4. |   .0221103   .0104905     2.11   0.035     .0015493    .0426713
            |
      _cons |  -7.888832   .2213288   -35.64   0.000    -8.322628   -7.455035
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.044926   .1665822                     -1.371421   -.7184311
-------------+----------------------------------------------------------------
       alpha |   .3517178   .0585899                      .2537461    .4875165
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 203.31                Prob >= chibar2 = 0.000

. est sto m2

.
. nbreg att_pal L.concil concla2 L.repress firstint secondint GTD2 L.att_pal L2
> .att_pal L3.att_pal L4.att_pal, exposure(popthou)
```

Fitting Poisson model:

Iteration 0: log likelihood = -463.45033
Iteration 1: log likelihood = -461.52102
Iteration 2: log likelihood = -461.50061
Iteration 3: log likelihood = -461.5006

Fitting constant-only model:

Iteration 0: log likelihood = -485.97042
Iteration 1: log likelihood = -483.22476
Iteration 2: log likelihood = -483.22141
Iteration 3: log likelihood = -483.22141

Fitting full model:

Iteration 0: log likelihood = -443.59894
Iteration 1: log likelihood = -428.51803
Iteration 2: log likelihood = -417.20013
Iteration 3: log likelihood = -409.66875
Iteration 4: log likelihood = -408.64662
Iteration 5: log likelihood = -408.62684
Iteration 6: log likelihood = -408.62684

Negative binomial regression Number of obs = 191
LR chi2(10) = 149.19
Dispersion = mean Prob > chi2 = 0.0000
Log likelihood = -408.62684 Pseudo R2 = 0.1544

att_pal	Coef.	Std. Err.	z	P>|z|	[95% Conf. Interval]	
concil						
L1.	.0215332	.0343351	0.63	0.531	-.0457624	.0888287
concla2	-.00188	.0013867	-1.36	0.175	-.0045978	.0008378
repress						
L1.	.0096996	.0066849	1.45	0.147	-.0034026	.0228018
firstint	.8477658	.2109433	4.02	0.000	.4343246	1.261207
secondint	1.627883	.3683939	4.42	0.000	.9058441	2.349921
GTD2	-1.234226	.3536132	-3.49	0.000	-1.927295	-.5411565
att_pal						

```
        L1. |   .0371892    .016412     2.27   0.023     .0050222    .0693562
        L2. |   .0280658   .0154319     1.82   0.069    -.0021801    .0583118
        L3. |   .0390646   .0158472     2.47   0.014     .0080047    .0701245
        L4. |    .035691   .0161364     2.21   0.027     .0040643    .0673177
            |
      _cons |   -8.59676   .2499682   -34.39   0.000    -9.086688   -8.106831
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
   /lnalpha |     -.9928   .2043842                     -1.393386   -.5922142
-------------+----------------------------------------------------------------
      alpha |   .3705377   .0757321                      .2482334    .5531012
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 105.75                Prob >= chibar2 = 0.000

. est sto m2


.
. /* All Actions */
.
. nbreg att_palunk L.allact firstint secondint GTD2 L.att_palunk L2.att_palunk
> L3.att_palunk L4.att_palunk, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -603.29505
Iteration 1:   log likelihood = -602.18233
Iteration 2:   log likelihood = -602.17854
Iteration 3:   log likelihood = -602.17854

Fitting constant-only model:

Iteration 0:   log likelihood = -554.68059
Iteration 1:   log likelihood =  -554.3128
Iteration 2:   log likelihood = -554.31245
Iteration 3:   log likelihood = -554.31245

Fitting full model:

Iteration 0:   log likelihood = -514.97638
Iteration 1:   log likelihood = -495.39431
Iteration 2:   log likelihood = -493.41642
Iteration 3:   log likelihood = -493.40862
Iteration 4:   log likelihood = -493.40862

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(8)        =     121.81
```

```
Dispersion     = mean                    Prob > chi2       =     0.0000
Log likelihood = -493.40862              Pseudo R2         =     0.1099

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      allact |
         L1. |   .0043414   .0042762     1.02   0.310    -.0040399    .0127227
             |
    firstint |   .7073582   .1563241     4.52   0.000     .4009686    1.013748
   secondint |   1.247033   .2628178     4.74   0.000     .7319191    1.762146
        GTD2 |  -1.008798   .2500602    -4.03   0.000    -1.498907    -.518689
             |
  att_palunk |
         L1. |   .0243447   .0103938     2.34   0.019     .0039731    .0447162
         L2. |  -.0002099   .0095306    -0.02   0.982    -.0188895    .0184696
         L3. |   .0316485   .0100998     3.13   0.002     .0118532    .0514438
         L4. |   .0208902   .0106472     1.96   0.050      .000022    .0417584
             |
       _cons |  -7.796355   .1847108   -42.21   0.000    -8.158381   -7.434328
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -.9852352   .1636575                     -1.305998   -.6644724
-------------+----------------------------------------------------------------
       alpha |   .3733514   .0611018                      .270902    .5145449
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 217.54              Prob >= chibar2 = 0.000

. est sto m1

.
. nbreg att_pal L.allact firstint secondint GTD2 L.att_pal L2.att_pal L3.att_pa
> l L4.att_pal, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -468.75279
Iteration 1:   log likelihood = -466.80452
Iteration 2:   log likelihood = -466.78351
Iteration 3:   log likelihood =  -466.7835

Fitting constant-only model:

Iteration 0:   log likelihood = -485.97042
Iteration 1:   log likelihood = -483.22476
Iteration 2:   log likelihood = -483.22141
```

```
Iteration 3:   log likelihood = -483.22141

Fitting full model:

Iteration 0:   log likelihood = -444.33946
Iteration 1:   log likelihood = -425.41651
Iteration 2:   log likelihood = -414.95405
Iteration 3:   log likelihood = -411.53041
Iteration 4:   log likelihood = -411.42719
Iteration 5:   log likelihood = -411.42703
Iteration 6:   log likelihood = -411.42703

Negative binomial regression                    Number of obs     =        191
                                                LR chi2(8)        =     143.59
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -411.42703                     Pseudo R2         =     0.1486

------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
        L1. |   .0031894   .0048077     0.66   0.507    -.0062335    .0126123
            |
   firstint |   1.023133    .186972     5.47   0.000     .6566746    1.389591
  secondint |   1.840993   .3555719     5.18   0.000     1.144085    2.537902
       GTD2 |  -1.223234   .3545393    -3.45   0.001    -1.918118   -.5283498
            |
    att_pal |
        L1. |   .0358301   .0165922     2.16   0.031     .0033101    .0683502
        L2. |   .0220736   .0153232     1.44   0.150    -.0079593    .0521064
        L3. |   .0380999   .0157955     2.41   0.016     .0071413    .0690585
        L4. |   .0315678   .0160979     1.96   0.050     .0000164    .0631191
            |
      _cons |  -8.577613   .2166374   -39.59   0.000    -9.002214   -8.153011
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
   /lnalpha |   -.945746    .202219                     -1.342088    -.549404
-------------+----------------------------------------------------------------
      alpha |   .3883897   .0785398                      .2612995    .5772938
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 110.71                  Prob >= chibar2 = 0.000

. est sto m1

.
.
```

```
. clear

.
.
. // Create monthly terrorist attack counts from RAND database
.
. import delimited "C:\Users\natra\Documents\Education\UChicago\Quantitative Se
> curity\Dugan-Chenoweth_Moving-beyond-deterrence\RAND_Database_of_Worldwide_Te
> rrorism_Incidents\RAND_Database_of_Worldwide_Terrorism_Incidents.csv"
(8 vars, 40,129 obs)

.
. keep if (country == "Israel" | country == "West Bank/Gaza" )
(36,404 observations deleted)

.
. gen inc_date = date(date, "DMY", 2009)

.
. keep if inrange(inc_date,td(01jun1987),td(31dec2004))
(1,676 observations deleted)

.
. save "C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan
> -Chenoweth_Moving-beyond-deterrence\rand_terrorism_87-04.dta", replace
file C:\Users\natra\Documents\Education\UChicago\Quantitative Security\Dugan-Ch
> enoweth_Moving-beyond-deterrence\rand_terrorism_87-04.dta saved

.
. clear

.
. // rand_perpetrator_affiliations.xlsx created by manually assigning each Perp
> etrator in the above dataset as a Palestine affiliate, Unknown, or non-Palest
> inian
. import excel "rand_perpetrator_affiliations.xlsx", firstrow
(4 vars, 31 obs)

.
. save "rand_perp_affiliations.dta", replace
file rand_perp_affiliations.dta saved

.
.
. use "rand_terrorism_87-04.dta"
```

```
.
. merge m:1 perpetrator using "rand_perp_affiliations.dta"

    Result                      # of obs.
    -----------------------------------------
    not matched                         0
    matched                         2,049  (_merge==3)
    -----------------------------------------

.
. gen month=month(inc_date)

. gen yr=year(inc_date)

. egen mo_yr = concat(month yr), punct(-)

.
. egen att_pal = sum(palestineaffiliate), by(mo_yr)

. egen att_unk = sum(unknown), by(mo_yr)

. egen att_tot = count(description), by(mo_yr)

. egen att_palunk = rowtotal(att_pal-att_unk)

.
. save "rand_terrorism_87-04.dta", replace
file rand_terrorism_87-04.dta saved

.
.
. // Aggregate RAND terrorist attacks to month-year level to merge with GATE-Is
> rael data in "GATE_GTD_Israel_monthly_data_STATA.dta"
. keep yr month mo_yr att_pal att_unk att_palunk att_tot

.
. dups, drop key(mo_yr)

group by: month yr mo_yr att_pal att_unk att_tot att_palunk

groups formed: 125 containing 2005 observations
unique observations: 44

groups of duplicate observations:
  +--------------------------+
  | _group   _count     mo_yr |
```

1	3	1-1991
2	3	1-1993
3	2	1-1995
4	2	1-1997
5	7	1-1998
6	4	1-1999
7	35	1-2001
8	55	1-2002
9	32	1-2003
10	14	1-2004
11	4	2-1988
12	3	2-1989
13	2	2-1991
14	4	2-1994
15	3	2-1996
16	3	2-1998
17	6	2-1999
18	2	2-2000
19	59	2-2001
20	93	2-2002
21	6	2-2003
22	6	2-2004
23	7	3-1988
24	2	3-1989
25	2	3-1990
26	3	3-1991
27	5	3-1993
28	5	3-1994
29	2	3-1995
30	2	3-1996
31	3	3-1998
32	2	3-1999
33	39	3-2001
34	116	3-2002
35	27	3-2003
36	11	3-2004
37	4	4-1988
38	5	4-1989

39	2	4-1991
40	4	4-1994
41	2	4-1995
42	5	4-1998
43	2	4-1999
44	12	4-2001
45	41	4-2002
46	21	4-2003
47	13	4-2004
48	4	5-1989
49	3	5-1990
50	3	5-1992
51	2	5-1994
52	7	5-1998
53	5	5-1999
54	18	5-2001
55	23	5-2002
56	40	5-2003
57	6	5-2004
58	3	6-1987
59	9	6-1988
60	2	6-1989
61	7	6-1990
62	2	6-1991
63	3	6-1998
64	7	6-2001
65	30	6-2002
66	39	6-2003
67	7	6-2004
68	2	7-1990
69	2	7-1993
70	3	7-1994
71	2	7-1997
72	7	7-1998
73	27	7-2001
74	33	7-2002
75	11	7-2003
76	23	7-2004

77	3	8-1994
78	2	8-1995
79	2	8-1996
80	3	8-1998
81	2	8-1999
82	32	8-2001
83	30	8-2002
84	17	8-2003
85	39	8-2004
86	6	9-1989
87	2	9-1995
88	3	9-1998
89	4	9-2000
90	9	9-2001
91	43	9-2002
92	7	9-2003
93	33	9-2004
94	2	10-1987
95	3	10-1988
96	3	10-1990
97	3	10-1991
98	2	10-1992
99	4	10-1994
100	5	10-1998
101	36	10-2000
102	34	10-2001
103	32	10-2002
104	15	10-2003
105	24	10-2004
106	6	11-1987
107	3	11-1990
108	2	11-1994
109	3	11-1995
110	3	11-1998
111	90	11-2000
112	100	11-2001
113	27	11-2002
114	6	11-2003
115	67	11-2004

```
 |-------------------------|
 |   116      13   12-1987 |
 |   117       2   12-1989 |
 |   118       3   12-1990 |
 |   119       3   12-1993 |
 |   120       2   12-1998 |
 |-------------------------|
 |   121      50   12-2000 |
 |   122      41   12-2001 |
 |   123      17   12-2002 |
 |   124      17   12-2003 |
 |   125     135   12-2004 |
 +-------------------------+

(1,880 observations deleted)

observations remaining: 169

. drop _expand

.
. save "rand_terrorism_tomerge.dta", replace
file rand_terrorism_tomerge.dta saved


.
. use "GATE_GTD_Israel_monthly_data_STATA.dta"

.
. egen mo_yr = concat(month year), punct(-)

. merge 1:1 mo_yr using "rand_terrorism_tomerge.dta"
(note: variable month was byte, now float to accommodate using data's values)

    Result                      # of obs.
    -----------------------------------------
    not matched                        42
        from master                    42  (_merge==1)
        from using                      0  (_merge==2)

    matched                           169  (_merge==3)
    -----------------------------------------

.
. replace att_pal = 0 if missing(att_pal)
(42 real changes made)
```

```
. replace att_unk = 0 if missing(att_unk)
(42 real changes made)

. replace att_palunk = 0 if missing(att_palunk)
(42 real changes made)

. replace att_tot = 0 if missing(att_tot)
(42 real changes made)

. gen RAND2 = 1 if year >= 1998
(127 missing values generated)

. replace RAND2 = 0 if missing(RAND2)
(127 real changes made)


.
. drop mo_yr month yr GTD2


.
. save "GATE_RAND_Israel_monthly_data.dta", replace
file GATE_RAND_Israel_monthly_data.dta saved

.
.
.
. // Run if want to compare RAND with Dugan and Chenoweth's GTD counts
. gen pers_diff = att93miss - att_palunk
(12 missing values generated)

. tab pers_diff

  pers_diff |      Freq.     Percent        Cum.
------------+-----------------------------------
       -133 |          1        0.50        0.50
        -91 |          1        0.50        1.01
        -88 |          1        0.50        1.51
        -78 |          1        0.50        2.01
        -66 |          1        0.50        2.51
        -63 |          1        0.50        3.02
        -55 |          1        0.50        3.52
        -49 |          1        0.50        4.02
        -45 |          1        0.50        4.52
        -41 |          1        0.50        5.03
        -34 |          1        0.50        5.53
        -33 |          2        1.01        6.53
        -31 |          1        0.50        7.04
```

-30	1	0.50	7.54
-29	1	0.50	8.04
-28	2	1.01	9.05
-27	2	1.01	10.05
-26	1	0.50	10.55
-25	1	0.50	11.06
-24	1	0.50	11.56
-23	1	0.50	12.06
-21	1	0.50	12.56
-20	2	1.01	13.57
-18	1	0.50	14.07
-17	1	0.50	14.57
-16	1	0.50	15.08
-14	1	0.50	15.58
-13	1	0.50	16.08
-12	2	1.01	17.09
-11	1	0.50	17.59
-10	1	0.50	18.09
-9	2	1.01	19.10
-8	3	1.51	20.60
-5	7	3.52	24.12
-4	4	2.01	26.13
-3	6	3.02	29.15
-2	5	2.51	31.66
-1	16	8.04	39.70
0	26	13.07	52.76
1	9	4.52	57.29
2	14	7.04	64.32
3	12	6.03	70.35
4	4	2.01	72.36
5	7	3.52	75.88
6	9	4.52	80.40
7	8	4.02	84.42
8	5	2.51	86.93
9	3	1.51	88.44
10	5	2.51	90.95
11	2	1.01	91.96
12	4	2.01	93.97
14	2	1.01	94.97
15	3	1.51	96.48
17	1	0.50	96.98
18	1	0.50	97.49
19	4	2.01	99.50
20	1	0.50	100.00
Total	199	100.00	

```
.
. // Generate summary statistics - all years
. total(att_palunk)

Total estimation                Number of obs   =        211

------------------------------------------------------------
             |     Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
  att_palunk |      2025   286.6429      1459.934    2590.066
------------------------------------------------------------

. mean(att_palunk)

Mean estimation                 Number of obs   =        211

------------------------------------------------------------
             |      Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
  att_palunk |   9.597156   1.358497      6.919117     12.2752
------------------------------------------------------------

. total(att_tot)

Total estimation                Number of obs   =        211

------------------------------------------------------------
             |     Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
     att_tot |      2049   287.3337      1482.572    2615.428
------------------------------------------------------------

. mean(att_tot)

Mean estimation                 Number of obs   =        211

------------------------------------------------------------
             |      Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
     att_tot |    9.7109   1.361771      7.026407    12.39539
------------------------------------------------------------

. total(att_pal)

Total estimation                Number of obs   =        211
```

```
------------------------------------------------------------
             |      Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
    att_pal |        632   129.0501      377.6004    886.3996
------------------------------------------------------------

. mean(att_pal)

Mean estimation                 Number of obs   =        211

------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
    att_pal |   2.995261   .6116118      1.789575    4.200946
------------------------------------------------------------


.
. // Generate summary statistics - post-1998
. total(att_palunk) if year >= 1998

Total estimation                Number of obs   =         84

------------------------------------------------------------
             |      Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
  att_palunk |       1817   248.6353      1322.474    2311.526
------------------------------------------------------------

. mean(att_palunk) if year >= 1998

Mean estimation                 Number of obs   =         84

------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
  att_palunk |   21.63095   2.959944      15.74374    27.51816
------------------------------------------------------------

. total(att_tot) if year >= 1998

Total estimation                Number of obs   =         84

------------------------------------------------------------
             |      Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
```

```
    att_tot |      1830   249.1366      1334.477    2325.523
------------------------------------------------------------

. mean(att_tot) if year >= 1998

Mean estimation                 Number of obs   =        84

------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
    att_tot |   21.78571   2.965912      15.88663    27.68479
------------------------------------------------------------

. total(att_pal) if year >= 1998

Total estimation                Number of obs   =        84

------------------------------------------------------------
             |      Total   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
    att_pal |        537   122.3613      293.6284    780.3716
------------------------------------------------------------

. mean(att_pal) if year >= 1998

Mean estimation                 Number of obs   =        84

------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+----------------------------------------------
    att_pal |   6.392857   1.456682      3.495576    9.290138
------------------------------------------------------------

.
. // Percent of Known-Perpetrator attacks - post-1998
. summ att_tot

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    att_tot |       211      9.7109    19.78087         0        135

. sca tot_att = r(sum)

. gen att_known = att_tot - att_unk

. summ att_known
```

```
    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
  att_known |       211    3.109005    8.896359         0        110

. sca tot_known = r(sum)

. display tot_known / tot_att
.32015617

.
. // Percent of Palestinian-perpetrated attacks of known - post-1998
. summ att_pal

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
    att_pal |       211    2.995261    8.884174         0        110

. sca tot_pal = r(sum)

. //gen att_known = att_tot - att_unk
. summ att_known

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
  att_known |       211    3.109005    8.896359         0        110

. sca tot_known = r(sum)

. display tot_pal / tot_known
.96341463

.
. // Avg % Palestinian-perpetrated attacks per month
. gen pal_perc = att_pal / att_known
(90 missing values generated)

. mean(pal_perc)

Mean estimation                 Number of obs   =       121

--------------------------------------------------------------
             |       Mean   Std. Err.     [95% Conf. Interval]
-------------+------------------------------------------------
   pal_perc |   .8812021   .0265658      .8286037    .9338006
--------------------------------------------------------------
```

```
.
.
. // Run RAND data models - all years
.
. /* Conciliatory/Repressive and Discriminate/Indiscriminate */
.
. sort mcount


.
. nbreg att_palunk L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firs
> tint secondint RAND2 L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk,
> exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -3130.8493
Iteration 1:   log likelihood = -1395.0622
Iteration 2:   log likelihood = -839.83324
Iteration 3:   log likelihood = -754.93592
Iteration 4:   log likelihood = -753.83127
Iteration 5:   log likelihood = -753.82984
Iteration 6:   log likelihood = -753.82984

Fitting constant-only model:

Iteration 0:   log likelihood = -666.66238
Iteration 1:   log likelihood = -621.61073
Iteration 2:   log likelihood =  -621.3754
Iteration 3:   log likelihood = -621.37521
Iteration 4:   log likelihood = -621.37521

Fitting full model:

Iteration 0:   log likelihood = -575.53791
Iteration 1:   log likelihood = -518.82571  (backed up)
Iteration 2:   log likelihood = -499.26541
Iteration 3:   log likelihood = -498.30592
Iteration 4:   log likelihood = -498.29445
Iteration 5:   log likelihood = -498.29445

Negative binomial regression                    Number of obs     =        207
                                                LR chi2(12)       =     246.16
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -498.29445                     Pseudo R2         =     0.1981
```

```
------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    concdisc |
        L1. |   .0271455   .0446697     0.61   0.543    -.0604055    .1146965
            |
  concindisc |
        L1. |  -.0057699   .0377605    -0.15   0.879    -.0797791    .0682392
            |
     cindla2 |  -.0007142   .0016321    -0.44   0.662    -.0039131    .0024847
            |
    reprdisc |
        L1. |   .0111258   .0155029     0.72   0.473    -.0192594     .041511
            |
  reprindisc |
        L1. |    .001518   .0085058     0.18   0.858     -.015153     .018189
            |
    firstint |   .4319013   .2291928     1.88   0.060    -.0173082    .8811109
   secondint |   1.834066    .259083     7.08   0.000     1.326273    2.341859
       RAND2 |   .4523179   .2461496     1.84   0.066    -.0301265    .9347622
            |
  att_palunk |
        L1. |   .0194637   .0051335     3.79   0.000     .0094023    .0295251
        L2. |  -.0059872   .0050752    -1.18   0.238    -.0159344       .00396
        L3. |   .0114016   .0057434     1.99   0.047     .0001447    .0226585
        L4. |  -.0045229   .0049178    -0.92   0.358    -.0141616    .0051157
            |
      _cons |  -8.356765   .2560603   -32.64   0.000    -8.858634   -7.854896
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -.8107304   .1726535                     -1.149125   -.4723357
-------------+----------------------------------------------------------------
       alpha |   .4445333   .0767502                      .3169139    .6235441
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 511.07              Prob >= chibar2 = 0.000

. est sto m3

.
. nbreg att_pal L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc firstin
> t secondint RAND2 L.att_pal L2.att_pal L3.att_pal L4.att_pal, exposure(poptho
> u)

Fitting Poisson model:

Iteration 0:   log likelihood = -6548.6862
```

```
Iteration 1:   log likelihood = -4964.5988  (backed up)
Iteration 2:   log likelihood = -2343.2204  (backed up)
Iteration 3:   log likelihood = -1236.0068
Iteration 4:   log likelihood = -1226.7095
Iteration 5:   log likelihood = -399.27711
Iteration 6:   log likelihood = -348.46307
Iteration 7:   log likelihood = -334.56981
Iteration 8:   log likelihood = -334.53454
Iteration 9:   log likelihood = -334.53453

Fitting constant-only model:

Iteration 0:   log likelihood = -448.65677
Iteration 1:   log likelihood = -407.16121
Iteration 2:   log likelihood = -407.01485
Iteration 3:   log likelihood = -407.01445
Iteration 4:   log likelihood = -407.01445

Fitting full model:

Iteration 0:   log likelihood = -374.27624
Iteration 1:   log likelihood = -334.28886  (backed up)
Iteration 2:   log likelihood =  -318.9244
Iteration 3:   log likelihood = -317.41093
Iteration 4:   log likelihood = -315.61745
Iteration 5:   log likelihood = -315.60412
Iteration 6:   log likelihood = -315.60411

Negative binomial regression                    Number of obs     =        207
                                                LR chi2(12)       =     182.82
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -315.60411                     Pseudo R2         =     0.2246

------------------------------------------------------------------------------
     att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    concdisc |
          L1. |  -.0136438   .0574716    -0.24   0.812    -.1262861    .0989986
              |
  concindisc |
          L1. |   .1026248   .0465993     2.20   0.028     .0112919    .1939578
              |
     cindla2 |  -.0061955   .0023502    -2.64   0.008    -.0108018   -.0015892
              |
    reprdisc |
          L1. |  -.0067155   .0185831    -0.36   0.718    -.0431377    .0297068
```

```
             |
  reprindisc |
         L1. |  -.003968   .0086153    -0.46   0.645    -.0208538    .0129177
             |
    firstint |  -.1376152   .2651123    -0.52   0.604    -.6572258    .3819953
   secondint |   2.448277   .4428104     5.53   0.000     1.580384    3.316169
       RAND2 |  -1.354533    .411757    -3.29   0.001    -2.161562   -.5475045
             |
     att_pal |
         L1. |    .048552   .0151476     3.21   0.001     .0188633    .0782408
         L2. |    .013769   .0210936     0.65   0.514    -.0275738    .0551117
         L3. |   .0261627   .0216463     1.21   0.227    -.0162632    .0685885
         L4. |   .0427057   .0218324     1.96   0.050    -.0000851    .0854965
             |
       _cons |  -8.982391   .2757401   -32.58   0.000    -9.522832    -8.44195
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.171324   .3201937                     -1.798892   -.5437563
-------------+----------------------------------------------------------------
       alpha |   .3099562    .099246                      .1654821    .5805634
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 37.86               Prob >= chibar2 = 0.000

. est sto m3


.
. /* Conciliatory and Repressive Actions */
.
. nbreg att_palunk L.concil concla2 L.repress firstint secondint RAND2 L.att_pa
> lunk L2.att_palunk L3.att_palunk L4.att_palunk, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood =  -3121.806
Iteration 1:   log likelihood = -1421.8881
Iteration 2:   log likelihood = -849.67272
Iteration 3:   log likelihood = -749.40416
Iteration 4:   log likelihood = -748.20346
Iteration 5:   log likelihood = -748.20299
Iteration 6:   log likelihood = -748.20299

Fitting constant-only model:

Iteration 0:   log likelihood = -666.66238
Iteration 1:   log likelihood = -621.61073
Iteration 2:   log likelihood =  -621.3754
```

```
Iteration 3:   log likelihood = -621.37521
Iteration 4:   log likelihood = -621.37521

Fitting full model:

Iteration 0:   log likelihood = -575.55157
Iteration 1:   log likelihood = -518.62051  (backed up)
Iteration 2:   log likelihood = -504.24427
Iteration 3:   log likelihood = -498.83945
Iteration 4:   log likelihood = -498.48872
Iteration 5:   log likelihood = -498.48836
Iteration 6:   log likelihood = -498.48836

Negative binomial regression                    Number of obs     =        207
                                                LR chi2(10)       =     245.77
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -498.48836                     Pseudo R2         =     0.1978

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      concil |
        L1. |   .0199549   .0342032     0.58   0.560    -.0470822     .086992
            |
     concla2 |  -.0014811   .0013877    -1.07   0.286     -.004201    .0012388
            |
     repress |
        L1. |   .0046053    .005784     0.80   0.426    -.0067311    .0159417
            |
    firstint |   .4490332   .2219222     2.02   0.043     .0140737    .8839926
   secondint |   1.804015   .2561297     7.04   0.000      1.30201     2.30602
       RAND2 |   .4249434   .2438355     1.74   0.081    -.0529654    .9028521
            |
  att_palunk |
        L1. |   .0191989   .0050291     3.82   0.000      .009342    .0290558
        L2. |  -.0060031   .0050016    -1.20   0.230    -.0158061    .0037998
        L3. |   .0110724   .0055093     2.01   0.044     .0002744    .0218704
        L4. |  -.0037114   .0045042    -0.82   0.410    -.0125394    .0051166
            |
      _cons |  -8.411628   .2581175   -32.59   0.000    -8.917529   -7.905727
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
   /lnalpha |   -.820217   .1738713                     -1.160998   -.4794355
-------------+----------------------------------------------------------------
      alpha |   .4403361   .0765618                      .3131734    .6191328
------------------------------------------------------------------------------
```

```
LR test of alpha=0: chibar2(01) = 499.43                Prob >= chibar2 = 0.000

. est sto m2

.
. nbreg att_pal L.concil concla2 L.repress firstint secondint RAND2 L.att_pal L
> 2.att_pal L3.att_pal L4.att_pal, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -6424.6623
Iteration 1:   log likelihood = -5030.3603  (backed up)
Iteration 2:   log likelihood = -2262.9468  (backed up)
Iteration 3:   log likelihood = -1976.0753  (backed up)
Iteration 4:   log likelihood = -1388.9287
Iteration 5:   log likelihood = -484.18429
Iteration 6:   log likelihood = -341.89904
Iteration 7:   log likelihood = -339.66134
Iteration 8:   log likelihood = -339.65373
Iteration 9:   log likelihood = -339.65373

Fitting constant-only model:

Iteration 0:   log likelihood = -448.65677
Iteration 1:   log likelihood = -407.16121
Iteration 2:   log likelihood = -407.01485
Iteration 3:   log likelihood = -407.01445
Iteration 4:   log likelihood = -407.01445

Fitting full model:

Iteration 0:   log likelihood = -374.51307
Iteration 1:   log likelihood = -346.80321
Iteration 2:   log likelihood = -318.24869
Iteration 3:   log likelihood = -317.12277
Iteration 4:   log likelihood = -317.09183
Iteration 5:   log likelihood =  -317.0918

Negative binomial regression                    Number of obs     =        207
                                                LR chi2(10)       =     179.85
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood =  -317.0918                     Pseudo R2         =     0.2209

------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
```

```
      concil |
        L1. |   .0713786   .0423069     1.69   0.092    -.0115414    .1542987
            |
     concla2 |  -.0038006   .0018098    -2.10   0.036    -.0073477   -.0002535
            |
     repress |
        L1. |  -.0039687   .0068325    -0.58   0.561    -.0173601    .0094228
            |
    firstint |  -.1902046   .2608814    -0.73   0.466    -.7015227    .3211135
   secondint |   2.428915   .4394321     5.53   0.000     1.567644    3.290186
       RAND2 |  -1.365093   .4122733    -3.31   0.001    -2.173134   -.5570521
            |
     att_pal |
        L1. |   .0495981   .0150587     3.29   0.001     .0200836    .0791125
        L2. |   .0147405   .0214643     0.69   0.492    -.0273288    .0568098
        L3. |   .0280779   .0210674     1.33   0.183    -.0132135    .0693692
        L4. |   .0400411   .0213179     1.88   0.060    -.0017413    .0818234
            |
       _cons |  -8.947663   .2842905   -31.47   0.000    -9.504862   -8.390464
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.116096   .3113453                     -1.726321   -.5058703
-------------+----------------------------------------------------------------
       alpha |   .3275562   .1019831                      .1779378    .6029806
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 45.12                Prob >= chibar2 = 0.000

. est sto m2


.
. /* All Actions */
.
. nbreg att_palunk L.allact firstint secondint RAND2 L.att_palunk L2.att_palunk
>  L3.att_palunk L4.att_palunk, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -3109.0448
Iteration 1:   log likelihood = -3090.3368
Iteration 2:   log likelihood = -822.63603
Iteration 3:   log likelihood = -758.57514
Iteration 4:   log likelihood = -756.97731
Iteration 5:   log likelihood = -756.97571
Iteration 6:   log likelihood = -756.97571

Fitting constant-only model:
```

```
Iteration 0:   log likelihood = -666.66238
Iteration 1:   log likelihood = -621.61073
Iteration 2:   log likelihood =  -621.3754
Iteration 3:   log likelihood = -621.37521
Iteration 4:   log likelihood = -621.37521

Fitting full model:

Iteration 0:   log likelihood = -575.40253
Iteration 1:   log likelihood = -518.02563
Iteration 2:   log likelihood =  -501.8929
Iteration 3:   log likelihood = -499.70717
Iteration 4:   log likelihood = -499.59341
Iteration 5:   log likelihood = -499.59325
Iteration 6:   log likelihood = -499.59325

Negative binomial regression                    Number of obs     =        207
                                                LR chi2(8)        =     243.56
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -499.59325                     Pseudo R2         =     0.1960

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      allact |
         L1. |   .0031192   .0040642     0.77   0.443    -.0048465    .0110848
             |
    firstint |   .5762891   .1972958     2.92   0.003     .1895965    .9629817
   secondint |   1.860033    .251953     7.38   0.000     1.366214    2.353852
       RAND2 |   .5276429    .233663     2.26   0.024     .0696719     .985614
             |
  att_palunk |
         L1. |   .0191498   .0050817     3.77   0.000     .0091898    .0291099
         L2. |  -.0060057   .0049033    -1.22   0.221    -.0156161    .0036047
         L3. |   .0083595   .0051896     1.61   0.107    -.0018119     .018531
         L4. |  -.0027523   .0045379    -0.61   0.544    -.0116463    .0061418
             |
       _cons |  -8.489837   .2001526   -42.42   0.000    -8.882129   -8.097546
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -.8147791   .1747714                     -1.157325   -.4722336
-------------+----------------------------------------------------------------
       alpha |   .4427371   .0773778                      .314326    .6236078
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 514.76                 Prob >= chibar2 = 0.000
```

```
. est sto m1

.
. nbreg att_pal L.allact firstint secondint RAND2 L.att_pal L2.att_pal L3.att_p
> al L4.att_pal, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -6201.0422
Iteration 1:   log likelihood = -4969.4215  (backed up)
Iteration 2:   log likelihood = -1691.7028  (backed up)
Iteration 3:   log likelihood = -1069.7792
Iteration 4:   log likelihood = -357.57436
Iteration 5:   log likelihood =  -348.1402
Iteration 6:   log likelihood = -348.08501
Iteration 7:   log likelihood =   -348.085

Fitting constant-only model:

Iteration 0:   log likelihood = -448.65677
Iteration 1:   log likelihood = -407.16121
Iteration 2:   log likelihood = -407.01485
Iteration 3:   log likelihood = -407.01445
Iteration 4:   log likelihood = -407.01445

Fitting full model:

Iteration 0:   log likelihood = -374.57295
Iteration 1:   log likelihood = -345.23246
Iteration 2:   log likelihood = -319.67763
Iteration 3:   log likelihood = -319.25102
Iteration 4:   log likelihood = -319.24743
Iteration 5:   log likelihood = -319.24743

Negative binomial regression                    Number of obs     =        207
                                                LR chi2(8)        =     175.53
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -319.24743                     Pseudo R2         =     0.2156

------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
       L1. |  -.0053931   .0048962    -1.10   0.271    -.0149894    .0042033
           |
```

```
   firstint |  -.1863374   .2422275    -0.77   0.442    -.6610945    .2884198
  secondint |   2.513296    .431176     5.83   0.000     1.668206    3.358385
      RAND2 |  -1.343827   .4128987    -3.25   0.001    -2.153094   -.5345608
            |
    att_pal |
       L1. |   .0497173   .0155226     3.20   0.001     .0192934    .0801411
       L2. |   .0090327   .0220992     0.41   0.683    -.0342809    .0523463
       L3. |   .0334959   .0217661     1.54   0.124    -.0091649    .0761567
       L4. |   .0397456   .0219755     1.81   0.071    -.0033256    .0828168
           |
     _cons |   -8.70182   .2304109   -37.77   0.000    -9.153417   -8.250223
ln(popthou) |          1  (exposure)
------------+------------------------------------------------------------------
   /lnalpha |  -1.010587   .2936992                     -1.586227   -.4349474
------------+------------------------------------------------------------------
      alpha |   .3640052    .106908                      .2046965    .6472987
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 57.68                Prob >= chibar2 = 0.000

. est sto m1

.
.
. // Run Models - post-1998
.
. /* Conciliatory/Repressive and Discriminate/Indiscriminate */
.
. sort mcount

.
. nbreg att_palunk L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc seco
> ndint L.att_palunk L2.att_palunk L3.att_palunk L4.att_palunk if year >= 1998,
>  exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -529.01536
Iteration 1:   log likelihood = -514.50082
Iteration 2:   log likelihood = -514.46315
Iteration 3:   log likelihood = -514.46315

Fitting constant-only model:

Iteration 0:   log likelihood = -342.38079
Iteration 1:   log likelihood = -338.54234
Iteration 2:   log likelihood = -338.54029
```

```
Iteration 3:   log likelihood = -338.54029

Fitting full model:

Iteration 0:   log likelihood = -314.45082
Iteration 1:   log likelihood = -308.88005
Iteration 2:   log likelihood = -288.54156
Iteration 3:   log likelihood = -282.02881
Iteration 4:   log likelihood =  -281.9799
Iteration 5:   log likelihood = -281.97985
Iteration 6:   log likelihood = -281.97985

Negative binomial regression                    Number of obs     =         84
                                                LR chi2(10)       =     113.12
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -281.97985                     Pseudo R2         =     0.1671

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
    concdisc |
          L1. |  -.074841   .0647894    -1.16   0.248    -.2018258    .0521439
              |
  concindisc |
          L1. |   .0421902   .0440716     0.96   0.338    -.0441885    .1285689
              |
     cindla2 |  -.0020833   .0019247    -1.08   0.279    -.0058556    .0016891
              |
    reprdisc |
          L1. |   .0068832   .0153148     0.45   0.653    -.0231331    .0368996
              |
  reprindisc |
          L1. |   .0064551   .0088774     0.73   0.467    -.0109443    .0238545
              |
   secondint |   1.788983   .2444134     7.32   0.000     1.309942    2.268025
              |
  att_palunk |
          L1. |   .0179442   .0047372     3.79   0.000     .0086594    .0272289
          L2. |  -.0067318   .0045887    -1.47   0.142    -.0157254    .0022619
          L3. |   .0098849   .0053103     1.86   0.063    -.0005231    .0202929
          L4. |  -.0013934   .0046224    -0.30   0.763    -.0104531    .0076662
              |
        _cons |  -8.017713   .2200387   -36.44   0.000    -8.448981   -7.586445
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.028073   .1959596                     -1.412147   -.6439995
```

```
-------------+----------------------------------------------------------------
       alpha |   .3576955   .0700939                      .2436197    .5251877
-------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 464.97              Prob >= chibar2 = 0.000

. est sto m3

.
. nbreg att_pal L.concdisc L.concindisc cindla2 L.reprdisc L.reprindisc secondi
> nt L.att_pal L2.att_pal L3.att_pal L4.att_pal if year >= 1998, exposure(popth
> ou)

Fitting Poisson model:

Iteration 0:   log likelihood = -1805.6336
Iteration 1:   log likelihood = -675.29101
Iteration 2:   log likelihood = -333.52069
Iteration 3:   log likelihood = -185.18629
Iteration 4:   log likelihood = -176.30883
Iteration 5:   log likelihood = -176.00761
Iteration 6:   log likelihood =  -176.0067
Iteration 7:   log likelihood =  -176.0067

Fitting constant-only model:

Iteration 0:   log likelihood = -243.12866
Iteration 1:   log likelihood = -230.02006
Iteration 2:   log likelihood = -230.00382
Iteration 3:   log likelihood = -230.00381

Fitting full model:

Iteration 0:   log likelihood = -210.64602  (not concave)
Iteration 1:   log likelihood =  -189.4746
Iteration 2:   log likelihood = -166.95946
Iteration 3:   log likelihood = -166.46942
Iteration 4:   log likelihood =  -164.5771
Iteration 5:   log likelihood = -164.52909
Iteration 6:   log likelihood = -164.52897
Iteration 7:   log likelihood = -164.52897

Negative binomial regression                    Number of obs     =         84
                                                LR chi2(10)       =     130.95
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -164.52897                     Pseudo R2         =     0.2847
```

```
------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
   concdisc |
       L1. |  -.0828053   .0795119    -1.04   0.298    -.2386457    .0730352
           |
  concindisc |
       L1. |   .1569738    .054677     2.87   0.004     .0498089    .2641387
           |
    cindla2 |  -.0087809   .0031143    -2.82   0.005    -.0148849    -.002677
           |
   reprdisc |
       L1. |  -.0127942   .0177258    -0.72   0.470    -.0475362    .0219478
           |
  reprindisc |
       L1. |  -.0032176   .0079809    -0.40   0.687    -.0188598    .0124247
           |
   secondint |   2.472653   .4310986     5.74   0.000     1.627715     3.31759
           |
    att_pal |
       L1. |   .0489364    .013022     3.76   0.000     .0234137    .0744591
       L2. |   .0082009   .0189481     0.43   0.665    -.0289367    .0453386
       L3. |   .0340173   .0204142     1.67   0.096    -.0059938    .0740284
       L4. |    .040193   .0193175     2.08   0.037     .0023314    .0780546
           |
      _cons |   -10.4391   .4041958   -25.83   0.000    -11.23131   -9.646895
 ln(popthou) |          1  (exposure)
------------+-----------------------------------------------------------------
   /lnalpha |  -1.661896   .3659654                     -2.379175   -.9446172
------------+-----------------------------------------------------------------
      alpha |   .1897788   .0694525                      .0926269    .3888284
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 22.96               Prob >= chibar2 = 0.000

. est sto m3

.
. /* Conciliatory and Repressive Actions */
.
. nbreg att_palunk L.concil concla2 L.repress secondint L.att_palunk L2.att_pal
> unk L3.att_palunk L4.att_palunk if year >= 1998, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -522.35138
Iteration 1:   log likelihood = -508.95867
```

```
Iteration 2:   log likelihood = -508.92104
Iteration 3:   log likelihood = -508.92104

Fitting constant-only model:

Iteration 0:   log likelihood = -342.38079
Iteration 1:   log likelihood = -338.54234
Iteration 2:   log likelihood = -338.54029
Iteration 3:   log likelihood = -338.54029

Fitting full model:

Iteration 0:   log likelihood = -314.48927
Iteration 1:   log likelihood = -297.06512
Iteration 2:   log likelihood = -283.75336
Iteration 3:   log likelihood = -282.44242
Iteration 4:   log likelihood = -282.43917
Iteration 5:   log likelihood = -282.43917

Negative binomial regression                    Number of obs     =         84
                                                LR chi2(8)        =     112.20
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -282.43917                     Pseudo R2         =     0.1657

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
      concil |
         L1. |   .0324991   .0437311     0.74   0.457    -.0532122    .1182104
             |
    concla2 |  -.0017839   .0018594    -0.96   0.337    -.0054282    .0018604
             |
    repress |
         L1. |   .0064384   .0061662     1.04   0.296    -.0056471    .0185238
             |
   secondint |   1.819888   .2427992     7.50   0.000     1.344011    2.295766
             |
  att_palunk |
         L1. |    .017994   .0047243     3.81   0.000     .0087345    .0272535
         L2. |  -.0063715   .0046141    -1.38   0.167     -.0154149     .002672
         L3. |   .0099178   .0053804     1.84   0.065    -.0006277    .0204632
         L4. |   -.003638   .0041551    -0.88   0.381    -.0117818    .0045058
             |
       _cons |  -8.053747    .234684   -34.32   0.000    -8.513719   -7.593775
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
```

```
   /lnalpha |  -1.021057   .1962305                -1.405661    -.636452
------------+----------------------------------------------------------------
      alpha |   .3602141    .070685                .2452048    .5291666
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 452.96             Prob >= chibar2 = 0.000

. est sto m2

.
. nbreg att_pal L.concil concla2 L.repress secondint L.att_pal L2.att_pal L3.at
> t_pal L4.att_pal if year >= 1998, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -1732.8449
Iteration 1:   log likelihood =   -568.116
Iteration 2:   log likelihood = -297.82849
Iteration 3:   log likelihood = -183.19907
Iteration 4:   log likelihood = -180.79935
Iteration 5:   log likelihood = -180.79243
Iteration 6:   log likelihood = -180.79243

Fitting constant-only model:

Iteration 0:   log likelihood = -243.12866
Iteration 1:   log likelihood = -230.02006
Iteration 2:   log likelihood = -230.00382
Iteration 3:   log likelihood = -230.00381

Fitting full model:

Iteration 0:   log likelihood = -210.88247  (not concave)
Iteration 1:   log likelihood = -190.23026
Iteration 2:   log likelihood = -168.22037
Iteration 3:   log likelihood = -167.23135
Iteration 4:   log likelihood = -165.98453
Iteration 5:   log likelihood = -165.97395
Iteration 6:   log likelihood = -165.97394

Negative binomial regression                    Number of obs     =         84
                                                LR chi2(8)        =     128.06
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -165.97394                     Pseudo R2         =     0.2784

------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
```

```
-------------+----------------------------------------------------------------
      concil |
         L1. |   .1386975   .0541038     2.56   0.010      .032656    .2447389
             |
     concla2 |  -.0072121   .0026275    -2.74   0.006    -.0123618   -.0020624
             |
     repress |
         L1. |   -.005441   .0064626    -0.84   0.400    -.0181073    .0072254
             |
   secondint |   2.494892   .4252731     5.87   0.000     1.661372    3.328412
             |
     att_pal |
         L1. |   .0526847   .0129285     4.08   0.000     .0273452    .0780241
         L2. |   .0134163    .019609     0.68   0.494    -.0250166    .0518492
         L3. |   .0268677   .0185363     1.45   0.147    -.0094628    .0631982
         L4. |   .0303541   .0182885     1.66   0.097    -.0054907    .0661989
             |
       _cons |  -10.51604   .4179932   -25.16   0.000    -11.33529   -9.696784
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |  -1.589078   .3475602                     -2.270283   -.9078722
-------------+----------------------------------------------------------------
       alpha |   .2041138   .0709418                      .1032829    .4033816
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 29.64               Prob >= chibar2 = 0.000

. est sto m2


.
. /* All Actions */
.
. nbreg att_palunk L.allact secondint L.att_palunk L2.att_palunk L3.att_palunk
> L4.att_palunk if year >= 1998, exposure(popthou)

Fitting Poisson model:

Iteration 0:   log likelihood = -533.67571
Iteration 1:   log likelihood = -518.84798
Iteration 2:   log likelihood = -518.81587
Iteration 3:   log likelihood = -518.81587

Fitting constant-only model:

Iteration 0:   log likelihood = -342.38079
Iteration 1:   log likelihood = -338.54234
Iteration 2:   log likelihood = -338.54029
```

```
Iteration 3:   log likelihood = -338.54029

Fitting full model:

Iteration 0:   log likelihood = -314.26051
Iteration 1:   log likelihood =  -288.8418
Iteration 2:   log likelihood = -284.08845
Iteration 3:   log likelihood = -282.67197
Iteration 4:   log likelihood = -282.66654
Iteration 5:   log likelihood = -282.66654

Negative binomial regression                    Number of obs     =         84
                                                LR chi2(6)        =     111.75
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood = -282.66654                     Pseudo R2         =     0.1650

------------------------------------------------------------------------------
  att_palunk |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
-------------+----------------------------------------------------------------
     allact |
       L1. |   .0061107    .004547     1.34   0.179    -.0028012    .0150227
           |
   secondint |   1.844945   .2367112     7.79   0.000     1.380999     2.30889
           |
  att_palunk |
       L1. |   .0178321   .0046359     3.85   0.000     .0087459    .0269183
       L2. |  -.0063468   .0044973    -1.41   0.158    -.0151614    .0024677
       L3. |    .007325   .0046726     1.57   0.117    -.0018332    .0164831
       L4. |   -.002367   .0041482    -0.57   0.568    -.0104972    .0057633
           |
      _cons |  -8.005194   .1724147   -46.43   0.000     -8.34312   -7.667267
 ln(popthou) |          1  (exposure)
-------------+----------------------------------------------------------------
    /lnalpha |    -1.0253   .1966475                     -1.410722    -.639878
-------------+----------------------------------------------------------------
       alpha |   .3586889   .0705353                      .2439671    .5273567
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 472.30              Prob >= chibar2 = 0.000

. est sto m1

.
. nbreg att_pal L.allact secondint L.att_pal L2.att_pal L3.att_pal L4.att_pal i
> f year >= 1998, exposure(popthou)

Fitting Poisson model:
```

```
Iteration 0:   log likelihood = -1655.5855
Iteration 1:   log likelihood = -622.97294
Iteration 2:   log likelihood = -313.55687
Iteration 3:   log likelihood =  -194.1814
Iteration 4:   log likelihood = -191.50614
Iteration 5:   log likelihood = -191.49669
Iteration 6:   log likelihood = -191.49669

Fitting constant-only model:

Iteration 0:   log likelihood = -243.12866
Iteration 1:   log likelihood = -230.02006
Iteration 2:   log likelihood = -230.00382
Iteration 3:   log likelihood = -230.00381

Fitting full model:

Iteration 0:   log likelihood =  -211.1519  (not concave)
Iteration 1:   log likelihood = -192.39085
Iteration 2:   log likelihood = -171.30577
Iteration 3:   log likelihood = -170.02019
Iteration 4:   log likelihood = -169.74976
Iteration 5:   log likelihood =  -169.7492
Iteration 6:   log likelihood =  -169.7492

Negative binomial regression                    Number of obs     =         84
                                                LR chi2(6)        =     120.51
Dispersion     = mean                           Prob > chi2       =     0.0000
Log likelihood =  -169.7492                     Pseudo R2         =     0.2620

------------------------------------------------------------------------------
    att_pal |      Coef.   Std. Err.      z    P>|z|     [95% Conf. Interval]
------------+-----------------------------------------------------------------
     allact |
       L1. |  -.0053993   .0049637    -1.09   0.277    -.0151279    .0043294
           |
  secondint |   2.574293   .4166225     6.18   0.000     1.757728    3.390858
           |
    att_pal |
       L1. |   .0541816   .0135417     4.00   0.000     .0276404    .0807228
       L2. |   .0008963   .0196815     0.05   0.964    -.0376788    .0394714
       L3. |    .037216   .0194927     1.91   0.056     -.000989    .0754211
       L4. |    .030585   .0192644     1.59   0.112    -.0071725    .0683426
           |
     _cons |  -10.04439   .3736297   -26.88   0.000    -10.77669   -9.312088
```

```
 ln(popthou) |          1  (exposure)
-------------+------------------------------------------------------------
   /lnalpha |  -1.391472   .3204951                     -2.019631   -.7633128
-------------+------------------------------------------------------------
       alpha |    .248709     .07971                      .1327045    .4661197
------------------------------------------------------------------------------
LR test of alpha=0: chibar2(01) = 43.49                Prob >= chibar2 = 0.000

. est sto m1
```