

```
. clear

.
. /*
> Back to Fan's Stata4Econ or other repositories:
> - http://fanwangecon.github.io
> - http://fanwangecon.github.io/Stata4Econ
> - http://fanwangecon.github.io/R4Econ
> - http://fanwangecon.github.io/M4Econ
> - http://fanwangecon.github.io/CodeDynaAsset/
> - http://fanwangecon.github.io/Math4Econ/
> - http://fanwangecon.github.io/Stat4Econ/
> - http://fanwangecon.github.io/Tex4Econ
>
> Three discrete variables, Interacted with each other. Suppose there are 3 categories for each, then there are 27 interactions.
>
> */
.
. ///--- File Names
> global st_file_root "~\Stata4Econ\table\multipanel\tab_6col_dis3inter\"

. global st_log_file "${st_file_root}gen_reg"

. global st_out_html "${st_file_root}tab_6col_dis3inter.html"

. global st_out_rtf "${st_file_root}tab_6col_dis3inter.rtf"

. global st_out_tex "${st_file_root}tab_6col_dis3inter_texbody.tex"

.
. ///--- Start log
> capture log close

. log using "${st_log_file}" , replace
(note: file C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_dis3inter\gen_reg.smcl not found)
```

name: <unnamed>
log: C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_dis3inter\gen_reg.smcl
log type: smcl
opened on: 24 Aug 2019, 20:53:24

```
. log on
(log already on)
```

```
.
. set trace off

. set tracedepth 1
```

```
.
. //////////////////////////////////////
> ///--- Load Data
> //////////////////////////////////////
>
. set more off
```

```
. sysuse bplong, clear
(fictional blood-pressure data)
```

```
.
. clonevar female = sex
```

```
.
. tab female
```

Sex	Freq.	Percent	Cum.
Male	120	50.00	50.00
Female	120	50.00	100.00
Total	240	100.00	

```
. tab agegrp
```

Age Group	Freq.	Percent	Cum.
30-45	80	33.33	33.33
46-59	80	33.33	66.67
60+	80	33.33	100.00
Total	240	100.00	

```
. tab when
```

Status	Freq.	Percent	Cum.
Before	120	50.00	50.00
After	120	50.00	100.00
Total	240	100.00	

```
.
. tab female when
```

Sex	Status		Total
	Before	After	
Male	60	60	120
Female	60	60	120
Total	120	120	240

Sex	Age Group			Total
	30-45	46-59	60+	
Male	40	40	40	120
Female	40	40	40	120
Total	80	80	80	240

```
.
. egen female_when = group(female when), label

. egen female_agegrp = group(female agegrp), label

. egen when_agegrp = group(when agegrp), label

. egen female_when_agegrp = group(female when agegrp), label

.
. //////////////////////////////////////////
> ///--- A1. Define Regression Variables
> //////////////////////////////////////////
>
.      * shared regression outcome lhs variable
.      global svr_outcome "bp"

.
.      * for each panel, rhs variables differ
.      global svr_rhs_panel_a "ib0.female io(1).when_agegrp#ib0.female"

.
.      * for each column, conditioning differs
.      global it_reg_n = 6

.      global sif_col_1 "bp <= 185"
.      global sif_col_2 "bp <= 180"
.      global sif_col_3 "bp <= 175"
.      global sif_col_4 "bp <= 170"
.      global sif_col_5 "bp <= 165"
.      global sif_col_6 "bp <= 160"

.
.      * esttad strings for conditioning what were included
.      scalar it_esttad_n = 4

.      matrix mt_bl_estd = J(it_esttad_n, $it_reg_n, 0)

.      matrix rownames mt_bl_estd = bpge185 bpge180 bpge170 bpge160

.      matrix colnames mt_bl_estd = reg1 reg2 reg3 reg4 reg5 reg6

.      matrix mt_bl_estd[1, 1] = (1\1\1\1)
.      matrix mt_bl_estd[1, 2] = (0\1\1\1)
.      matrix mt_bl_estd[1, 3] = (0\0\1\1)
.      matrix mt_bl_estd[1, 4] = (0\0\1\1)
.      matrix mt_bl_estd[1, 5] = (0\0\0\1)
.      matrix mt_bl_estd[1, 6] = (0\0\0\1)

.      global st_estd_rownames : rownames mt_bl_estd

.      global slb_estd_1 "blood pressure >= 185"
.      global slb_estd_2 "blood pressure >= 180"
.      global slb_estd_3 "blood pressure >= 170"
.      global slb_estd_4 "blood pressure >= 160"

.
.      //////////////////////////////////////////
> ///--- A2. Define Regression Technical Strings
> //////////////////////////////////////////
>
.      ///--- Technical Controls
>      global stc_regc "regress"

.      global stc_opts ", vce(robust)"

.
.      //////////////////////////////////////////
> ///--- B1. Define Regressions Panel A
> //////////////////////////////////////////
>
.      /*
>      di "$srg_panel_a_col_1"
>      di "$srg_panel_a_col_2"
>      di "$srg_panel_a_col_6"
>      */
.      foreach it_regre of numlist 1(1)$it_reg_n {
2.          #delimit;
delimiter now ;
.          global srg_panel_a_col_`it_regre' "
>          $stc_regc $svr_outcome $svr_rhs_panel_a if ${sif_col_`it_regre'} $stc_opts
>          ";
3.          #delimit cr
delimiter now cr
```

```
4.      }

      regress bp ib0.female io(1).when_agegrp#ib0.female if bp <= 185 , vce(robust)
      regress bp ib0.female io(1).when_agegrp#ib0.female if bp <= 180 , vce(robust)
      regress bp ib0.female io(1).when_agegrp#ib0.female if bp <= 175 , vce(robust)
      regress bp ib0.female io(1).when_agegrp#ib0.female if bp <= 170 , vce(robust)
      regress bp ib0.female io(1).when_agegrp#ib0.female if bp <= 165 , vce(robust)
      regress bp ib0.female io(1).when_agegrp#ib0.female if bp <= 160 , vce(robust)

.
. ///////////////////////////////////////////////////
> ///--- C. Run Regressions
> ///////////////////////////////////////////////////
>
.      eststo clear

.      local it_reg_ctr = 0

.      local st_panel "panel_a"

.
.      global st_cur_sm_stor "smd_`st_panel'_m"

.      global ${st_cur_sm_stor} ""

.
.      foreach it_regre of numlist 1(1)$it_reg_n {
2.
.          local it_reg_ctr = `it_reg_ctr' + 1
3.          global st_cur_srg_name "srg_`st_panel'_col_`it_regre'"
4.
.          di "st_panel:`st_panel', it_reg_ctr:`it_reg_ctr', st_cur_srg_name:${st_cur_srg_name}"
5.
.          ///--- Regression
>          eststo m`it_reg_ctr', title("${sif_col_`it_regre}") : ${st_cur_srg_name}
6.
.          ///--- Estadd Controls
>          foreach st_estd_name in $st_estd_rownames {
7.              scalar bl_estad = el(mt_bl_estd, rownumb(mt_bl_estd, "`st_estd_name'"), `it_regre')
8.              if (bl_estad) {
9.                  estadd local `st_estd_name' "Yes"
10.             }
11.             else {
12.                 estadd local `st_estd_name' "No"
13.             }
14.         }
15.
.          ///--- Track Regression Store
>          global $st_cur_sm_stor "${${st_cur_sm_stor}} m`it_reg_ctr'"
16.     }
st_panel:panel_a, it_reg_ctr:1, st_cur_srg_name:srg_panel_a_col_1
```

Linear regression

Number of obs = 240

F(11, 228) = 10.65

Prob > F = 0.0000

R-squared = 0.2899

Root MSE = 11.288

bp	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
female						
Female	-3.55	2.90949	-1.22	0.224	-9.282926	2.182926
when_agegrp#female						
Before 46-59#Male	5.6	3.551834	1.58	0.116	-1.398617	12.59862
Before 46-59#Female	1.25	2.772207	0.45	0.652	-4.212421	6.712421
Before 60+#Male	11.85	2.977614	3.98	0.000	5.982841	17.71716
Before 60+#Female	9.95	3.259944	3.05	0.003	3.52653	16.37347
After 30-45#Male	-7	3.851828	-1.82	0.070	-14.58973	.5897312
After 30-45#Female	-7.7	2.769667	-2.78	0.006	-13.15742	-2.242585
After 46-59#Male	3.8	4.130981	0.92	0.359	-4.33978	11.93978
After 46-59#Female	-5.6	2.928085	-1.91	0.057	-11.36957	.1695674
After 60+#Male	9.4	3.424179	2.75	0.007	2.652919	16.14708
After 60+#Female	5.2	3.263676	1.59	0.112	-1.230822	11.63082
_cons	153.45	2.226012	68.93	0.000	149.0638	157.8362

added macro:

e(bpge185) : "Yes"

added macro:

e(bpge180) : "Yes"

added macro:

e(bpge170) : "Yes"

added macro:

e(bpge160) : "Yes"

st_panel:panel_a, it_reg_ctr:2, st_cur_srg_name:srg_panel_a_col_2

Linear regression

Number of obs = 232

F(11, 220) = 9.76

Prob > F = 0.0000

R-squared = 0.2882

Root MSE = 10.378

bp	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
female						
Female	-3.55	2.912134	-1.22	0.224	-9.289249	2.189249
when_agegrp#female						
Before 46-59#Male	2.772222	3.122862	0.89	0.376	-3.382332	8.926777
Before 46-59#Female	1.25	2.774726	0.45	0.653	-4.218446	6.718446
Before 60+#Male	11.85	2.98032	3.98	0.000	5.97637	17.72363
Before 60+#Female	7.266667	2.845034	2.55	0.011	1.659659	12.87367
After 30-45#Male	-7	3.855328	-1.82	0.071	-14.5981	.5981021
After 30-45#Female	-7.7	2.772183	-2.78	0.006	-13.16343	-2.236566
After 46-59#Male	.8833333	3.867336	0.23	0.820	-6.738433	8.5051
After 46-59#Female	-5.6	2.930746	-1.91	0.057	-11.37593	.1759308
After 60+#Male	6.938889	3.128676	2.22	0.028	.7728766	13.1049

Saturday August 24 2019
After 60+Female

20:53:47
3.2

Page 4
3.266641

1.590.113-1.23791511.63791

_cons	153.45	2.228035	68.87	0.000	149.059	157.841

added macro:
e(bpge185) : "No"

added macro:
e(bpge180) : "Yes"

added macro:
e(bpge170) : "Yes"

added macro:
e(bpge160) : "Yes"

st_panel:panel_a, it_reg_ctr:3, st_cur_srg_name:srg_panel_a_col_3

Linear regression

Number of obs = 227
F(11, 215) = 9.31
Prob > F = 0.0000
R-squared = 0.2861
Root MSE = 10.013

bp	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
female Female	-2.363158	2.731698	-0.87	0.388	-7.747496	3.02118
when_agegrp#female						
Before 46-59#Male	3.959064	2.955579	1.34	0.182	-1.866557	9.784686
Before 46-59#Female	1.25	2.776394	0.45	0.653	-4.222437	6.722437
Before 60+#Male	12.26316	2.760974	4.44	0.000	6.821114	17.7052
Before 60+#Female	7.266667	2.846744	2.55	0.011	1.655566	12.87777
After 30-45#Male	-5.813158	3.721946	-1.56	0.120	-13.14933	1.523018
After 30-45#Female	-7.7	2.77385	-2.78	0.006	-13.16742	-2.232578
After 46-59#Male	2.070175	3.734398	0.55	0.580	-5.290543	9.430894
After 46-59#Female	-5.6	2.932508	-1.91	0.058	-11.38015	.1801471
After 60+#Male	7.20743	2.900707	2.48	0.014	1.489964	12.9249
After 60+#Female	2.711111	2.95447	0.92	0.360	-3.112325	8.534547
_cons	152.2632	1.985337	76.69	0.000	148.3499	156.1764

added macro:
e(bpge185) : "No"

added macro:
e(bpge180) : "No"

added macro:
e(bpge170) : "Yes"

added macro:
e(bpge160) : "Yes"

st_panel:panel_a, it_reg_ctr:4, st_cur_srg_name:srg_panel_a_col_4

Linear regression

Number of obs = 212
F(11, 200) = 6.70
Prob > F = 0.0000
R-squared = 0.2358
Root MSE = 9.3892

bp	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
female Female	-1.211111	2.541389	-0.48	0.634	-6.222466	3.800244
when_agegrp#female						
Before 46-59#Male	4.006536	2.636378	1.52	0.130	-1.192129	9.205201
Before 46-59#Female	1.25	2.781893	0.45	0.654	-4.235604	6.735604
Before 60+#Male	8.555556	2.533409	3.38	0.001	3.559936	13.55118
Before 60+#Female	6.335294	2.778447	2.28	0.024	.8564847	11.8141
After 30-45#Male	-4.661111	3.588134	-1.30	0.195	-11.73654	2.414317
After 30-45#Female	-7.7	2.779343	-2.77	0.006	-13.18058	-2.219423
After 46-59#Male	-.5777778	3.350195	-0.17	0.863	-7.184015	6.02846
After 46-59#Female	-5.6	2.938316	-1.91	0.058	-11.39405	.1940539
After 60+#Male	7.388889	2.63291	2.81	0.006	2.197064	12.58071
After 60+#Female	1.452941	2.760451	0.53	0.599	-3.990382	6.896264
_cons	151.1111	1.709996	88.37	0.000	147.7392	154.483

added macro:
e(bpge185) : "No"

added macro:
e(bpge180) : "No"

added macro:
e(bpge170) : "Yes"

added macro:
e(bpge160) : "Yes"

st_panel:panel_a, it_reg_ctr:5, st_cur_srg_name:srg_panel_a_col_5

Linear regression

Number of obs = 193
F(11, 181) = 8.68
Prob > F = 0.0000
R-squared = 0.2834
Root MSE = 8.1118

Saturday August 24 20:53:47 2019Page 5

bp	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
female Female	-3.055556	2.305238	-1.33	0.187	-7.604152	1.493041
when_agegrp#female						
Before 46-59#Male	2.222222	2.48974	0.89	0.373	-2.690426	7.134871
Before 46-59#Female	1.166667	2.318997	0.50	0.616	-3.409079	5.742413
Before 60+#Male	6.488889	2.295704	2.83	0.005	1.959104	11.01867
Before 60+#Female	6.477778	2.453672	2.64	0.009	1.636298	11.31926
After 30-45#Male	-7.166667	3.402012	-2.11	0.037	-13.87937	-.4539619
After 30-45#Female	-7.21345	2.230135	-3.23	0.001	-11.61386	-2.813044
After 46-59#Male	-1.825397	3.27834	-0.56	0.578	-8.294076	4.643283
After 46-59#Female	-5.055556	2.481803	-2.04	0.043	-9.952544	-.1585676
After 60+#Male	5.196581	2.633229	1.97	0.050	.0008076	10.39235
After 60+#Female	2.319444	2.434897	0.95	0.342	-2.48499	7.123879
_cons	151.1111	1.715069	88.11	0.000	147.727	154.4952

added macro:
e(bpge185) : "No"

added macro:
e(bpge180) : "No"

added macro:
e(bpge170) : "No"

added macro:
e(bpge160) : "Yes"

st_panel:panel_a, it_reg_ctr:6, st_cur_srg_name:srg_panel_a_col_6

Linear regression

Number of obs	=	167
F(11, 155)	=	6.04
Prob > F	=	0.0000
R-squared	=	0.2486
Root MSE	=	7.292

bp	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
female Female	-1.431373	1.898041	-0.75	0.452	-5.180738	2.317993
when_agegrp#female						
Before 46-59#Male	3.179487	2.162587	1.47	0.144	-1.092459	7.451434
Before 46-59#Female	.4522059	2.081729	0.22	0.828	-3.660015	4.564427
Before 60+#Male	6.761905	2.001707	3.38	0.001	2.807758	10.71605
Before 60+#Female	2.964706	2.001517	1.48	0.141	-.9890658	6.918478
After 30-45#Male	-7.104167	3.045414	-2.33	0.021	-13.12004	-1.088295
After 30-45#Female	-6.393189	2.13264	-3.00	0.003	-10.60598	-2.180398
After 46-59#Male	-.3589744	3.117708	-0.12	0.908	-6.517655	5.799707
After 46-59#Female	-4.235294	2.397159	-1.77	0.079	-8.970611	.5000223
After 60+#Male	3.458333	2.471394	1.40	0.164	-1.423626	8.340292
After 60+#Female	1.478992	2.214564	0.67	0.505	-2.89563	5.853613
_cons	148.6667	1.297062	114.62	0.000	146.1045	151.2289

added macro:
e(bpge185) : "No"

added macro:
e(bpge180) : "No"

added macro:
e(bpge170) : "No"

added macro:
e(bpge160) : "Yes"

```
.
.      di "${st_cur_sm_stor}"
m1 m2 m3 m4 m5 m6

.
.      di "$smd_panel_a_m"
m1 m2 m3 m4 m5 m6

.
. //-----
> ///--- D1. Labeling
> //-----
>
. ///--- Title overall
> global slb_title "Outcome: Blood Pressure"

.      global slb_title_inner "\textbf{Categories}: Discrete Categories and BP"

.      global slb_label_tex "tab:scminter"

.
. //----- Several RHS Continuous Variables
> global slb_panel_a "Compare to Base Line Group: (30-45) x Before x Male"

.      global slb_panel_a_sa "\textbf{Female} Specific Interaction Effects"

.      global slb_panel_a_sa_ga "Interact with Age Group \textbf{30 to 45}:"

.      global slb_panel_a_sa_gb "Interact with Age Group \textbf{46 to 59}:"
```

```

Saturday August 24 20:53:47 2019 Page 6
. global slb_panel_a_sa_gc "\textbf{Interact with Age Group \textbf{60+}}:"
.
. global slb_panel_a_sb "\textbf{Male} Specific Interaction Effects"
.
. global slb_panel_a_sb_ga "${slb_panel_a_sa_ga}"
.
. global slb_panel_a_sb_gb "${slb_panel_a_sa_gb}"
.
. global slb_panel_a_sb_gc "${slb_panel_a_sa_gc}"
.
.
. ///--- Notes
> global slb_bottom "Controls for each panel:"
.
. global slb_note "${slb_starLvl}. Robust standard errors. Each column is a spearate regression."
.
. ///--- Show which coefficients to keep
> #delimit;
delimiter now ;
. global svr_coef_keep_panel_a "
> 1.female
>
> 2.when_agegrp#0.female
> 3.when_agegrp#0.female
> 4.when_agegrp#0.female
> 5.when_agegrp#0.female
> 6.when_agegrp#0.female
>
> 2.when_agegrp#1.female
> 3.when_agegrp#1.female
> 4.when_agegrp#1.female
> 5.when_agegrp#1.female
> 6.when_agegrp#1.female
> ";
.
. #delimit cr
delimiter now cr
.
. ///--- Labeling for for Coefficients to Show
> global slb_title_spc "\vspace*{-5mm}\hspace*{-8mm}"
.
. global slb_dis_tlt_spc "\vspace*{-5mm}\hspace*{-8mm}"
.
. global slb_dis_ele_spc "\vspace*{0mm}\hspace*{5mm}"
.
. global slb_1st_ele_spc "\vspace*{0mm}\hspace*{5mm}"
.
. global slb_fot_1st_spc "\vspace*{0mm}\hspace*{2mm}"
.
.
. #delimit;
delimiter now ;
. global svr_starts_var_panel_a "1.female";
.
. global svr_starts_var_panel_a_sa "2.when_agegrp#0.female";
.
. global svr_starts_var_panel_a_sa_ga "2.when_agegrp#0.female";
.
. global svr_starts_var_panel_a_sa_gb "3.when_agegrp#0.female";
.
. global svr_starts_var_panel_a_sa_gc "5.when_agegrp#0.female";
.
. global svr_starts_var_panel_a_sb "2.when_agegrp#1.female";
.
. global svr_starts_var_panel_a_sb_ga "2.when_agegrp#1.female";
.
. global svr_starts_var_panel_a_sb_gb "3.when_agegrp#1.female";
.
. global svr_starts_var_panel_a_sb_gc "5.when_agegrp#1.female";
.
. global slb_coef_label_panel_a "
>
> 1.female "${slb_dis_ele_spc} female intercept"
>
> 2.when_agegrp#0.female "${slb_dis_ele_spc} x female x after"
> 3.when_agegrp#0.female "${slb_dis_ele_spc} x female x before"
> 4.when_agegrp#0.female "${slb_dis_ele_spc} x female x after"
> 5.when_agegrp#0.female "${slb_dis_ele_spc} x female x before"
> 6.when_agegrp#0.female "${slb_dis_ele_spc} x female x after"
>
> 2.when_agegrp#1.female "${slb_dis_ele_spc} x female x after"
> 3.when_agegrp#1.female "${slb_dis_ele_spc} x female x before"
> 4.when_agegrp#1.female "${slb_dis_ele_spc} x female x after"
> 5.when_agegrp#1.female "${slb_dis_ele_spc} x female x before"
> 6.when_agegrp#1.female "${slb_dis_ele_spc} x female x after"
>
> ";
.
. #delimit cr
delimiter now cr
.
. //////////////////////////////////////////
> ///--- D2. Regression Display Controls
> //////////////////////////////////////////
>
. global slb_reg_stats "N ${st_estd_rownames}"
.
.
. global slb_starLvl "** 0.10 ** 0.05 *** 0.01"
.
. global slb_starComm "nostar"
.
.
```

Saturday August 24 20:53:47 2019 Page 7
global slb_sd_tex "se(fmt(a2) par("\vspace*{-2mm}{\footnotesize (" ") }"))"

global slb_cells_tex "cells(b(star fmt(a2)) \$slb_sd_tex)"

global slb_esttab_opt_tex "\${slb_cells_tex} booktabs label collabels(none) nomtitles nonumbers star(\${slb_starLvl})"

global slb_sd_txt "se(fmt(a2) par("(" ")"))"

global slb_cells_txt "cells(b(star fmt(a2)) \$slb_sd_txt)"

global slb_esttab_opt_txt "\${slb_cells_txt} stats(\${slb_reg_stats}) collabels(none) mtitle nonumbers varwidth(30) modelwidth(15)

#delimit ;
delimiter now ;
global slb_panel a main "
> title("\${slb_panel_a}")
> keep(\${svr_coef_keep_panel_a}) order(\${svr_coef_keep_panel_a})
> coeflabels("\${slb_coef_label_panel_a}")
> "

#delimit cr
delimiter now cr

> ///--- E. Regression Shows
> #####
>
di "\${slb_panel_a_main}"
> title("Compare to Base Line Group: (30-45) x Before x Male") keep(1.female 2.when_a
> 6.when_agegrp#0.female 2.when_agegrp#1.female 3.when_agegrp#1.female 4.when_agegrp#1.female
> when_agegrp#0.female 3.when_agegrp#0.female 4.when_agegrp#0.female 5.when_agegrp#0.female 6.when
> le 5.when_agegrp#1.female 6.when agegrp#1.female) coeflabels(1.female "\vspac
> ter" 3.when_agegrp#0.female "\vspace*{0mm}\hspace*{5mm} x female x before" 4.when_agegrp#0.female "\vspace*{0mm}\hsp
> 6.when_agegrp#0.female "\vspace*{0mm}\hspace*{5mm} x female x after" 2.when_agegrp#1.female "\vspace*{0mm}\hspace*{5mm} x
> agegrp#1.female "\vspace*{0mm}\hspace*{5mm} x female x after" 5.when_agegrp#1.female "\vspace*{0mm}\hspace*{5mm} x female x be

di "\${slb_esttab_opt_txt}"
cells(b(star fmt(a2)) se(fmt(a2) par("(" ")")) stats(N bpge185 bpge180 bpge170 bpge160) collabels(none) mtitle nonumbers varwidth(30) mod
> a spearate regression.)

esttab \${smd_panel_a_m}, \${slb_panel_a_main} \${slb_esttab_opt_txt}

Compare to Base Line Group: (30-45) x Before x Male

	bp <= 185	bp <= 180	bp <= 175	bp <= 170	bp <= 165	bp <=
\vspace*{0mm}\hspace*{5mm} f~l	-3.55 (2.91)	-3.55 (2.91)	-2.36 (2.73)	-1.21 (2.54)	-3.06 (2.31)	-1.
\vspace*{0mm}\hspace*{5mm} x~m	5.60 (3.55)	2.77 (3.12)	3.96 (2.96)	4.01 (2.64)	2.22 (2.49)	3
\vspace*{0mm}\hspace*{5mm} x~m	11.8*** (2.98)	11.9*** (2.98)	12.3*** (2.76)	8.56*** (2.53)	6.49*** (2.30)	6
\vspace*{0mm}\hspace*{5mm} x~m	-7.00* (3.85)	-7.00* (3.86)	-5.81 (3.72)	-4.66 (3.59)	-7.17** (3.40)	-7
\vspace*{0mm}\hspace*{5mm} x~m	3.80 (4.13)	0.88 (3.87)	2.07 (3.73)	-0.58 (3.35)	-1.83 (3.28)	-0
\vspace*{0mm}\hspace*{5mm} x~m	9.40*** (3.42)	6.94** (3.13)	7.21** (2.90)	7.39*** (2.63)	5.20** (2.63)	3
\vspace*{0mm}\hspace*{5mm} x~m	1.25 (2.77)	1.25 (2.77)	1.25 (2.78)	1.25 (2.78)	1.17 (2.32)	0
\vspace*{0mm}\hspace*{5mm} x~m	9.95*** (3.26)	7.27** (2.85)	7.27** (2.85)	6.34** (2.78)	6.48*** (2.45)	2
\vspace*{0mm}\hspace*{5mm} x~m	-7.70*** (2.77)	-7.70*** (2.77)	-7.70*** (2.77)	-7.70*** (2.78)	-7.21*** (2.23)	-6
\vspace*{0mm}\hspace*{5mm} x~m	-5.60* (2.93)	-5.60* (2.93)	-5.60* (2.93)	-5.60* (2.94)	-5.06** (2.48)	-4
\vspace*{0mm}\hspace*{5mm} x~m	5.20 (3.26)	5.20 (3.27)	2.71 (2.95)	1.45 (2.76)	2.32 (2.43)	1
N	240	232	227	212	193	
bpge185	Yes	No	No	No	No	
bpge180	Yes	Yes	No	No	No	
bpge170	Yes	Yes	Yes	Yes	No	
bpge160	Yes	Yes	Yes	Yes	Yes	

* 0.10 ** 0.05 *** 0.01. Robust standard errors. Each column is a spearate regression.

> ///--- Fl. Define Latex Column Groups and Column Sub-Groups
> #####
>
///--- Column Groups
> global it_max_col = 8

global it_min_col = 2

global it_col_cnt = 6

global colSeq "2 4 6 8"

// global st_cmldrle "\cmldrle(lr){2-3}\cmldrle(lr){4-5}\cmldrle(lr){6-7}"
global st_cmldrle "\cmldrle(lr){2-7}"

///--- Group 1, columns 1 and 2
> global labG1 "All Age 5 to 12"

global labC1 "{\small All Villages}"

```
.
.
.    ///--- Group 2, columns 3 and 4
>    global labG2 "Girls Age 5 to 12"

.
.    global labC3 "{\small All Villages}"

.
.    global labC4 "{\small No Teaching Points}"
```

```
.
.    ///--- Group 3, columns 5 and 6
>    global labG3 "Boys Age 5 to 12"

.
.    global labC5 "{\small All Villages}"

.
.    global labC6 "{\small No Teaching Points}"

.
.    ///--- Column Widths
>    global perCoefColWid = 1.85

.
.    global labColWid = 5

.
.    ///--- Column Fractional Adjustment, 1 = 100%
>    global tableAdjustBoxWidth = 1.0
```

```
.
.    //////////////////////////////////////////
>    ///--- F2. Tabling Calculations
>    //////////////////////////////////////////
>
.    ///--- Width Calculation
>    global totCoefColWid = ${perCoefColWid}*${it_col_cnt}

.
.    global totColCnt = ${it_col_cnt} + 1

.
.    global totColWid = ${labColWid} + ${totCoefColWid} + ${perCoefColWid}

.
.    global totColWidFootnote = ${labColWid} + ${totCoefColWid} + ${perCoefColWid} + ${perCoefColWid}/2

.
.    global totColWidLegend = ${labColWid} + ${totCoefColWid} + ${perCoefColWid}

.
.    global totColWidLegendthin = ${totCoefColWid} + ${perCoefColWid}
```

```
.
.    di "it_col_cnt:${it_col_cnt}"
it_col_cnt:6
```

```
.
.    di "totCoefColWid:${totCoefColWid}"
totCoefColWid:11.1
```

```
.
.    di "totCoefColWid:${totCoefColWid}"
totCoefColWid:11.1
```

```
.
.    di "totCoefColWid:${totCoefColWid}"
totCoefColWid:11.1
```

```
.
.    di "totCoefColWid:${totCoefColWid}"
totCoefColWid:11.1
```

```
.
.    di "totCoefColWid:${totCoefColWid}"
totCoefColWid:11.1
```

```
.
.    global ampersand ""

.
.    foreach curLoop of numlist 1(1)$it_col_cnt {
2.        global ampersand "$ampersand &"
3.    }
```

```
.
.    di "ampersand:$ampersand"
ampersand: & & & & &
```

```
.
.    global alignCenter "m{${labColWid}cm}"

.
.    local eB1 ">{\centering\arraybackslash}m{${perCoefColWid}cm}"

.
.    foreach curLoop of numlist 1(1)$it_col_cnt {
2.        global alignCenter "$alignCenter ^eB1'"
3.    }
```

```
.
.    di "alignCenter:$alignCenter"
alignCenter:m{5cm} >{\centering\arraybackslash}m{1.85cm} >{\centering\arraybackslash}m{1.85cm} >{\centering\arraybackslash}m{1.85cm} >{\centering\arraybackslash}m{1.85cm}
```

```
.
.    //////////////////////////////////////////
>    ///--- Glc. Tex Sectioning panel A
>    //////////////////////////////////////////
>
.    if (($svr_starts_var_panel_a)" == "${svr_starts_var_panel_a_sa}") & ("${svr_starts_var_panel_a_sa}" == "${svr_starts_var_panel_a_sa_ga}")
.    ///--- if main = sub headings = subsub heading
>    #delimit ;
delimiter now ;
.    global slb_titling_panel_a "
>        ${svr_starts_var_panel_a} "\multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_title_spc}}\textbf{${slb_panel_a}} \\\
>        \multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\
>        \multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\
>        ${svr_starts_var_panel_a_sa_gb} "\multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\textit{${slb_panel_a_sa_gb}} \\\
>        ${svr_starts_var_panel_a_sa_gc} "\multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\textit{${slb_panel_a_sa_gc}} \\\
>        ${svr_starts_var_panel_a_sb} "\multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\textbf{\textit{${slb_panel_a_sb}}} \\\
>        \multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\
>        ${svr_starts_var_panel_a_sb_gb} "\multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\textit{${slb_panel_a_sb_gb}} \\\
>        ${svr_starts_var_panel_a_sb_gc} "\multicolumn{${totColCnt}}{L{${totColWidLegend}cm}}{${slb_dis_tlt_spc}}\textit{${slb_panel_a_sb_gc}} \\\
>        ";
```



```
global slb_refcat_panel_a `refcat(${slb_titling_panel_a}, nolabel)'';
. #delimit cr
delimiter now cr
. }

. else if ("${svr_starts_var_panel_a_sa}" == "${svr_starts_var_panel_a_sa_ga}") {
. ///--- if main, sub headings differ, but subsub = sub heading
> #delimit ;
delimiter now ;
. global slb_titling_panel_a "
> ${svr_starts_var_panel_a} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_title_spc}\textbf{${slb_panel_a}} \\"
> ${svr_starts_var_panel_a_sa} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textbf{\textit{${slb_
> \multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel_a}}}"
> ${svr_starts_var_panel_a_sa_gb} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sa_gc} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sb} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textbf{\textit{${slb_
> \multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel_a}}}"
> ${svr_starts_var_panel_a_sb_gb} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sb_gc} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ";
. global slb_refcat_panel_a `refcat(${slb_titling_panel_a}, nolabel)'';
. #delimit cr
delimiter now cr
. }

. else {
. ///--- if main, sub, subsub heading vars differ
> #delimit ;
delimiter now ;
. global slb_titling_panel_a "
> ${svr_starts_var_panel_a} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_title_spc}\textbf{${slb_panel_a}} \\"
> ${svr_starts_var_panel_a_sa} "${st_cmldrle}\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textbf{
> ${svr_starts_var_panel_a_sa_ga} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sa_gb} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sa_gc} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sb} "${st_cmldrle}\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textbf{
> ${svr_starts_var_panel_a_sb_ga} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sb_gb} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ${svr_starts_var_panel_a_sb_gc} "\multicolumn{$totColCnt}{L{$totColWidLegend}cm)}${slb_dis_tlt_spc}\textit{${slb_panel
> ";
. global slb_refcat_panel_a `refcat(${slb_titling_panel_a}, nolabel)'';
. #delimit cr
delimiter now cr
. }

.
. ///////////////////////////////////////////////////
> ///--- Gld. Bottom
> ///////////////////////////////////////////////////
>
. #delimit ;
delimiter now ;
. global slb_titling_bottom `
> stats(N $st_estd rownames,
> labels(Observations
> "\midrule \multicolumn{${totColCnt}}{L{$totColWid}cm)}${slb_title_spc}\textbf{\textit{\normalsize ${slb_bottom
> "${slb_fot_lst_spc}${slb_estd_2}"
> "${slb_fot_lst_spc}${slb_estd_3}"
> "${slb_fot_lst_spc}${slb_estd_4}"))'';

. #delimit cr
delimiter now cr

. ///////////////////////////////////////////////////
> ///--- G2. Tex Headline
> ///////////////////////////////////////////////////
>
. ///--- C.3.A. Initialize
> global row1 "&"

. global row1MidLine ""

. global row2 ""

. global row2MidLine ""

. global row3 ""

.
. ///--- B. Row 2 and row 2 midline
> * global colSeq "2 3 6"
. global cmldrle ""

. global colCtr = -1

. foreach curCol of numlist $colSeq {
2.
. global colCtr = $colCtr + 1
3. global curCol1Min = `curCol' - 1
4. if ($colCtr == 0 ) {
5. global minCoefCol = "`curCol'"
6. }
7. if ($colCtr != 0 ) {
8. global gapCnt = (`curCol' - `lastCol')
9. global gapWidth = (`curCol' - `lastCol')*$perCoefColWid
10. di "curCol1Min:$curCol1Min, lastCol:`lastCol'"
11. di "$gapCnt"
12.
. di "\multicolumn{$gapCnt}{C{$gapWidth}cm)}{\small no Control}"
13. di "\cmidrle(1{5pt}r{5pt}){\`lastCol'-$curCol1Min}"
14.
. global curRow2MidLine "\cmidrle(1{5pt}r{5pt}){\`lastCol'-$curCol1Min}"
15. global row2MidLine "$row2MidLine $curRow2MidLine"
16.
```

```
. Saturday August 24 20:53:47 2019. Page 10
. global curRow2 "\multicolumn{$gapCnt}{L{$\{gapWidth\}cm}}{\small ${labG${colCtr}}}"
17. global row2 "$row2 & $curRow2"
18.
.
. }
19. local lastCol = `curCol`
20.
.
}
curCollMin:3, lastCol:2
2
\multicolumn{2}{C{3.7cm}}{\small no Control}
\cmidrule(1{5pt}r{5pt}){2-3}
curCollMin:5, lastCol:4
2
\multicolumn{2}{C{3.7cm}}{\small no Control}
\cmidrule(1{5pt}r{5pt}){4-5}
curCollMin:7, lastCol:6
2
\multicolumn{2}{C{3.7cm}}{\small no Control}
\cmidrule(1{5pt}r{5pt}){6-7}

.
. ///--- C. Row 3
> * Initial & for label column
. foreach curLoop of numlist 1(1)$it_col_cnt {
2. global curText "${labC`curLoop`}"
3. global textUse "(`curLoop`)"
4. if ("${curText}" != "") {
5. global textUse "${curText}"
6. }
7. global curRow3 "\multicolumn{1}{C{$\{perCoefColWid\}cm}}{$textUse}"
8. global row3 "$row3 & $curRow3"
9. }

.
. ///--- D. Row 1 and midline:
> global row1 "${row1} \multicolumn{$\{it_col_cnt\}}{L{$\{totCoefColWid\}cm}}{$\{slb_title_inner\}}"

. global row1MidLine "\cmidrule(1{5pt}r{5pt}){$\{minCoefCol\}-$\{curCollMin\}}"

.
. ///--- C.3.E Print lines
> di "$row1 \\"
& \multicolumn{6}{L{11.1cm}}{\textbf{Categories}: Discrete Categories and BP} \\\
. di "$row1MidLine "
\cmidrule(1{5pt}r{5pt}){2-7}

. di "$row2 \\"
& \multicolumn{2}{L{3.7cm}}{\small All Age 5 to 12} & \multicolumn{2}{L{3.7cm}}{\small Girls Age 5 to 12} & \multicolumn{2}{L{3.7cm}}{\small No Teaching Points}

. di "$row2MidLine"
\cmidrule(1{5pt}r{5pt}){2-3} \cmidrule(1{5pt}r{5pt}){4-5} \cmidrule(1{5pt}r{5pt}){6-7}

. di "$row3 \\"
& \multicolumn{1}{C{1.85cm}}{\small All Villages} & \multicolumn{1}{C{1.85cm}}{\small No Teaching Points} & \multicolumn{1}{C{1.85cm}}{\small No Teaching Points} \\\
> all All Villages} & \multicolumn{1}{C{1.85cm}}{\small No Teaching Points} \\\

.
. ///--- C.4 Together
> #delimit ;
delimiter now ;
. ///--- 1. Section
> * local section "
> * \section{`fileTitle`}\vspace*{-6mm}
> * ";
. ///--- 2. Align and Column Define
> local centering "$alignCenter";

. global headline "
> $row1 \\\
> $row1MidLine
> $row2 \\\
> $row2MidLine
> $row3 \\\
> ";

. #delimit cr
delimiter now cr

.
. //////////////////////////////////////////
> ///--- G4. Head
> //////////////////////////////////////////
>
. #delimit ;
delimiter now ;
. global adjustBoxStart "\begin{adjustbox}{max width=${tableAdjustBoxWidth}\textwidth}";

. global adjustBoxEnd "\end{adjustbox}";

. global notewrap "
> \addlinespace[-0.5em]
> \multicolumn{$\{totColCnt\}}{L{$\{totColWidFootnote\}cm}}{\footnotesize\justify${slb_note}}\\
> ";

. global startTable "\begin{table}[htbp]
> \centering
> \caption[${slb_title}]{\label[${slb_label_tex}]}${adjustBoxStart}\begin{tabular}{`centering'}
> \toprule
> ";

. global headlineAll "prehead[${startTable}]{${headline}}";

. global headlineAllNoHead "prehead[${startTable}]";
```

```
. Saturday August 24 20:53:47 2019 Page 11
global postAll postFoot(\bottomrule ${notewrap} \end{tabular}${adjustBoxEnd}\end{table})";

. #delimit cr
delimiter now cr

.
. //////////////////////////////////////////
> ///--- H1. Output Results to HTML
> //////////////////////////////////////////
>
. esttab ${smd_panel_a_m} using "${st_out_html}", ${slb_panel_a_main} ${slb_esttab_opt_txt} replace
(output written to ~\Stata4Econ\table\multipanel\tab_6col_dis3inter\tab_6col_dis3inter.html)

.
. //////////////////////////////////////////
> ///--- H2. Output Results to RTF
> //////////////////////////////////////////
>
. esttab ${smd_panel_a_m} using "${st_out_rtf}", ${slb_panel_a_main} ${slb_esttab_opt_txt} replace
(output written to ~\Stata4Econ\table\multipanel\tab_6col_dis3inter\tab_6col_dis3inter.rtf)

.
. //////////////////////////////////////////
> ///--- H3. Output Results to Tex
> //////////////////////////////////////////
>
. esttab $smd_panel_a_m using "${st_out_tex}", ///
> ${slb_panel_a_main} ///
> ${slb_refcat_panel_a} ///
> ${slb_esttab_opt_tex} ///
> ${slb_titling_bottom} ///
> fragment $headlineAll $postAll replace
(output written to ~\Stata4Econ\table\multipanel\tab_6col_dis3inter\tab_6col_dis3inter_texbody.tex)

.
. //////////////////////////////////////////
> ///--- I. Out Logs
> //////////////////////////////////////////
>
. ///--- End Log and to HTML
> log close
> log name: <unnamed>
> log: C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_dis3inter\gen_reg.smcl
> log type: smcl
> closed on: 24 Aug 2019, 20:53:47
```

```
.
. ///--- to PDF
> capture noisily {
. translator set Results2pdf logo off
. translator set Results2pdf fontsize 10
. translator set Results2pdf pagesize custom
. translator set Results2pdf pagewidth 11.69
. translator set Results2pdf pageheight 16.53
. translator set Results2pdf lmargin 0.2
. translator set Results2pdf rmargin 0.2
. translator set Results2pdf tmargin 0.2
. translator set Results2pdf bmargin 0.2
. translate @Results "${st_log_file}.pdf", replace translator(Results2pdf)
```