```
. 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:  16 Aug 2019, 22:48:30

. 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

           |     Status
       Sex |     Before      After |     Total
-----------+----------------------+----------
      Male |         60         60 |       120
    Female |         60         60 |       120
-----------+----------------------+----------
     Total |        120        120 |       240
```

```
. tab female agegrp
```

Sex	Age Group 30-45	46-59	60+	Total
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
```

```
. di "${srg_panel_a_col_`it_regre'}"
  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
```

After 60+#female	**5.2**	**3.266641**	**1.59**	**0.113**	**-1.237915**	**11.63791**
_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**

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}:"
```

```
.         global slb_panel_a_sa_gc "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}"

.
.         #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"

.
.         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 "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 "stats(${slb_reg_stats}) collabels(none) mtitle nonumbers varwidth(30) modelwidth(15) star(${slb_starL

.
.         #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 `"${slb_panel_a_main}"'
                title("Compare to Base Line Group: (30-45) x Before x Male")                  keep(           1.female
>    3.when_agegrp#0.female           4.when_agegrp#0.female           5.when_agegrp#0.female           6.when_agegrp#0.female
>  3.when_agegrp#1.female           4.when_agegrp#1.female           5.when_agegrp#1.female           6.when_agegrp#1.female           ) o
>               2.when_agegrp#0.female           3.when_agegrp#0.female           4.when_agegrp#0.female           5.when_agegrp#0.female
>            2.when_agegrp#1.female           3.when_agegrp#1.female           4.when_agegrp#1.female           5.when_agegrp#1.female
>         )                  coeflabels(           1.female "\vspace*{0mm}\hspace*{5mm} female intercept"                   2.when_age
> ce*{5mm} x female x after"           3.when_agegrp#0.female "\vspace*{0mm}\hspace*{5mm} x female x before"           4.when_agegrp#0.fem
> x female x after"           5.when_agegrp#0.female "\vspace*{0mm}\hspace*{5mm} x female x before"           6.when_agegrp#0.female "\vsp
> x after"           2.when_agegrp#1.female "\vspace*{0mm}\hspace*{5mm} x female x after"           3.when_agegrp#1.female "\vspace*{0mm}
>           4.when_agegrp#1.female "\vspace*{0mm}\hspace*{5mm} x female x after"           5.when_agegrp#1.female "\vspace*{0mm}\hspace*{
>   6.when_agegrp#1.female "\vspace*{0mm}\hspace*{5mm} x female x after"           )
.         di `"${slb_esttab_opt_txt}"'
stats(N bpge185 bpge180 bpge170 bpge160) collabels(none) mtitle nonumbers varwidth(30) modelwidth(15) star(* 0.10 ** 0.05 *** 0.01) addnot
> st standard errors. Each column is 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	-3.550	-3.550	-2.363	-1.211	-3.056	-1.
	(-1.22)	(-1.22)	(-0.87)	(-0.48)	(-1.33)	(-0.
\vspace*{0mm}\hspace*{5mm} x~m	5.600	2.772	3.959	4.007	2.222	3.
	(1.58)	(0.89)	(1.34)	(1.52)	(0.89)	(1.
\vspace*{0mm}\hspace*{5mm} x~m	11.85***	11.85***	12.26***	8.556***	6.489***	6.
	(3.98)	(3.98)	(4.44)	(3.38)	(2.83)	(3.
\vspace*{0mm}\hspace*{5mm} x~m	-7.000*	-7.000*	-5.813	-4.661	-7.167**	-7.
	(-1.82)	(-1.82)	(-1.56)	(-1.30)	(-2.11)	(-2.
\vspace*{0mm}\hspace*{5mm} x~m	3.800	0.883	2.070	-0.578	-1.825	-0.
	(0.92)	(0.23)	(0.55)	(-0.17)	(-0.56)	(-0.
\vspace*{0mm}\hspace*{5mm} x~m	9.400***	6.939**	7.207**	7.389***	5.197**	3.
	(2.75)	(2.22)	(2.48)	(2.81)	(1.97)	(1.
\vspace*{0mm}\hspace*{5mm} x~m	1.250	1.250	1.250	1.250	1.167	0.
	(0.45)	(0.45)	(0.45)	(0.45)	(0.50)	(0.
\vspace*{0mm}\hspace*{5mm} x~m	9.950***	7.267**	7.267**	6.335**	6.478***	2.
	(3.05)	(2.55)	(2.55)	(2.28)	(2.64)	(1.
\vspace*{0mm}\hspace*{5mm} x~m	-7.700***	-7.700***	-7.700***	-7.700***	-7.213***	-6.
	(-2.78)	(-2.78)	(-2.78)	(-2.77)	(-3.23)	(-3.
\vspace*{0mm}\hspace*{5mm} x~m	-5.600*	-5.600*	-5.600*	-5.600*	-5.056**	-4.
	(-1.91)	(-1.91)	(-1.91)	(-1.91)	(-2.04)	(-1.
\vspace*{0mm}\hspace*{5mm} x~m	5.200	5.200	2.711	1.453	2.319	1.
	(1.59)	(1.59)	(0.92)	(0.53)	(0.95)	(0.
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	

```
t statistics in parentheses
* 0.10 ** 0.05 *** 0.01. Robust standard errors. Each column is a spearate regression.
* p<0.10, ** p<0.05, *** p<0.01

.
. ////////////////////////////////////////////////
> ///--- F1. Define Latex Column Groups and Column Sub-Groups
> ////////////////////////////////////////////////
>
.         ///--- Column Groups
>         global it_max_col = 8

.         global it_min_col = 2
```

```
. 
.         global lt_col_cnt = 6

.         global colSeq "2 4 6 8"

. //      global st_cmidrule "\cmidrule(lr){2-3}\cmidrule(lr){4-5}\cmidrule(lr){6-7}"
.         global st_cmidrule "\cmidrule(lr){2-7}"

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

.         global labC1 "{\small All Villages}"

.         global labC2 "{\small No Teachng Points}"

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

.         global labC3 "{\small All Villages}"

.         global labC4 "{\small No Teachng Points}"

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

.         global labC5 "{\small All Villages}"

.         global labC6 "{\small No Teachng 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} >{\ce
>  >{\centering\arraybackslash}m{1.85cm} >{\centering\arraybackslash}m{1.85cm}

.
. ////////////////////////////////////////////////
> ///--- G1c. 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
>                 ${svr_starts_var_panel_a_sa_gc} "\multicolumn{$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_tl
> 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 ("${svr_starts_var_panel_a_sa}" == "${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_tl
> 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_tl
> 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_cmidrule}\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_cmidrule}\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
. }

.
. ////////////////////////////////////////////////
> ///--- G1d. 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 ${slb_bottom
> _1}"
>                         "${slb_estd_2}"
>                         "${slb_estd_3}"
>                         "${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 cmidrule ""
```

```
.         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 "\cmidrule(l{5pt}r{5pt}){`lastCol'-$curCol1Min}"
 14.
.                           global curRow2MidLine "\cmidrule(l{5pt}r{5pt}){`lastCol'-$curCol1Min}"
 15.                            global row2MidLine "$row2MidLine $curRow2MidLine"
 16.
.                           global curRow2 "\multicolumn{$gapCnt}{L{${gapWidth}cm}}{\small ${labG${colCtr}}}"
 17.                            global row2 "$row2 & $curRow2"
 18.
.                 }
 19.                    local lastCol = `curCol'
 20.
.         }
curCol1Min:3, lastCol:2
2
\multicolumn{2}{C{3.7cm}}{\small no Control}
\cmidrule(l{5pt}r{5pt}){2-3}
curCol1Min:5, lastCol:4
2
\multicolumn{2}{C{3.7cm}}{\small no Control}
\cmidrule(l{5pt}r{5pt}){4-5}
curCol1Min:7, lastCol:6
2
\multicolumn{2}{C{3.7cm}}{\small no Control}
\cmidrule(l{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(l{5pt}r{5pt}){${minCoefCol}-${curCol1Min}}"

.
.         ///--- C.3.E Print lines
>         di "$row1 \\"
& \multicolumn{6}{L{11.1cm}}{\textbf{Categories}: Discrete Categories and BP} \\

.         di "$row1MidLine "
\cmidrule(l{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}}{\sm

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

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

.
.         ///--- 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})";

.         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
      name:  <unnamed>
       log:  C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_dis3inter\gen_reg.smcl
  log type:  smcl
 closed on:  16 Aug 2019, 22:48:32
-------------------------------------------------------------------------------


.
. ///--- 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)
```