

```
. 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
>
>       Regression with continous variable and discrete variables, discrete variables could interact with each other, and interact with c
>
>
> */
.
. ///--- File Names
> global st_file_root "~\Stata4Econ\table\multipanel\tab_6col_cts_inter\"

. global st_log_file "${st_file_root}gen_reg"

. global st_out_html "${st_file_root}tab_6col_cts_inter.html"

. global st_out_rtf "${st_file_root}tab_6col_cts_inter.rtf"

. global st_out_tex "${st_file_root}tab_6col_cts_inter_texbody.tex"

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

. log using "${st_log_file}" , replace
(note: file C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_cts_inter\gen_reg.smcl not found)
```

```
name: <unnamed>
log: C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_cts_inter\gen_reg.smcl
log type: smcl
opened on: 24 Aug 2019, 20:55:33
```

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

```
.
. set trace off

. set tracedepth 1
```

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

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

```
.
. tab sex
```

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 sex when
```

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

```
. tab sex agegrp
```

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

```

. Saturday August 24 20:55:44 2019    Page 2
. egen sex_when = group(sex when), label

. egen sex_agegrp = group(sex agegrp), label

. egen when_agegrp = group(when agegrp), label

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

.
.      * for each panel, rhs variables differ
.      global svr_rhs_panel_a "sex c.patient c.bp"

.      global svr_rhs_panel_b "sex i.sex#c.patient i.sex#c.bp"

.
.      * 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 when sex c.patient c.bp if bp <= 185 , vce(robust)
.          regress when sex c.patient c.bp if bp <= 180 , vce(robust)
.          regress when sex c.patient c.bp if bp <= 175 , vce(robust)
.          regress when sex c.patient c.bp if bp <= 170 , vce(robust)
.          regress when sex c.patient c.bp if bp <= 165 , vce(robust)
.          regress when sex c.patient c.bp if bp <= 160 , vce(robust)

```

```
. //////////////////////////////////////
> ///--- B2. Define Regressions Panel B
> //////////////////////////////////////
>
.      /*
>          di "$srg_panel_b_col_1"
>          di "$srg_panel_b_col_2"
>          di "$srg_panel_b_col_6"
>      */
.      foreach it_regre of numlist 1(1)$it_reg_n {
2.          #delimit;
delimiter now ;
.          global srg_panel_b_col_`it_regre' "
>          $stc_regc $svr_outcome $svr_rhs_panel_b if ${sif_col_`it_regre'} $stc_opts
>          ";
3.          #delimit cr
delimiter now cr
.          di "${srg_panel_b_col_`it_regre'}"
4.          }
          regress when sex i.sex#c.patient i.sex#c.bp if bp <= 185 , vce(robust)
          regress when sex i.sex#c.patient i.sex#c.bp if bp <= 180 , vce(robust)
          regress when sex i.sex#c.patient i.sex#c.bp if bp <= 175 , vce(robust)
          regress when sex i.sex#c.patient i.sex#c.bp if bp <= 170 , vce(robust)
          regress when sex i.sex#c.patient i.sex#c.bp if bp <= 165 , vce(robust)
          regress when sex i.sex#c.patient i.sex#c.bp if bp <= 160 , vce(robust)

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

.      local it_reg_ctr = 0

.      foreach st_panel in panel_a panel_b {
2.
.          global st_cur_sm_stor "smd `st_panel'_m"
3.          global `${st_cur_sm_stor}' ""
4.
.          foreach it_regre of numlist 1(1)$it_reg_n {
5.
.              local it_reg_ctr = `it_reg_ctr' + 1
6.              global st_cur_srg_name "srg_`st_panel'_col_`it_regre'"
7.
.              di "st_panel:`st_panel', it_reg_ctr:`it_reg_ctr', st_cur_srg_name:${st_cur_srg_name}"
8.
.              ///--- Regression
>              eststo m`it_reg_ctr', title("${sif_col_`it_regre'}") : ${st_cur_srg_name}
9.
.              ///--- Estadd Controls
>              foreach st_estd_name in $st_estd_rownames {
10.                  scalar bl_estad = el(mt_bl_estd, rownumb(mt_bl_estd, "`st_estd_name'"), `it_regre')
11.                  if (bl_estad) {
12.                      estadd local `st_estd_name' "Yes"
13.                  }
14.                  else {
15.                      estadd local `st_estd_name' "No"
16.                  }
17.              }
18.
.              ///--- Track Regression Store
>              global $st_cur_sm_stor "${st_cur_sm_stor} m`it_reg_ctr'"
19.          }
20.
.          di "${st_cur_sm_stor}"
21.      }
st_panel:panel_a, it_reg_ctr:1, st_cur_srg_name:srg_panel_a_col_1
```

Linear regression

Number of obs	=	240
F(3, 236)	=	4.46
Prob > F	=	0.0045
R-squared	=	0.0492
Root MSE	=	.49165

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-.2404608	.1416798	-1.70	0.091	-.5195795	.0386579
patient	.0028836	.0020142	1.43	0.154	-.0010846	.0068517
bp	-.0096699	.0026499	-3.65	0.000	-.0148904	-.0044494
_cons	2.934006	.3927211	7.47	0.000	2.160319	3.707693

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(3, 228)	=	5.39
Prob > F	=	0.0013
R-squared	=	0.0597
Root MSE	=	.48907

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-.239018	.141754	-1.69	0.093	-.5183334	.0402974
patient	.0031009	.002026	1.53	0.127	-.0008911	.0070929
bp	-.0114352	.0028459	-4.02	0.000	-.0170428	-.0058275
_cons	3.181703	.4214657	7.55	0.000	2.351237	4.012169

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(3, 223)	=	6.75
Prob > F	=	0.0002
R-squared	=	0.0704
Root MSE	=	.48638

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-.2420362	.1417656	-1.71	0.089	-.5214079	.0373355
patient	.0028166	.0020453	1.38	0.170	-.0012141	.0068472
bp	-.0128604	.0028822	-4.46	0.000	-.0185402	-.0071805
_cons	3.410141	.4226693	8.07	0.000	2.577204	4.243078

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(3, 208)	=	6.53
Prob > F	=	0.0003
R-squared	=	0.0709
Root MSE	=	.48646

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-.2605732	.1465821	-1.78	0.077	-.5495502	.0284039
patient	.003001	.0021082	1.42	0.156	-.0011552	.0071572
bp	-.0136593	.0031405	-4.35	0.000	-.0198505	-.0074681
_cons	3.526874	.456005	7.73	0.000	2.62789	4.425858

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(3, 189)	=	10.62
Prob > F	=	0.0000
R-squared	=	0.1012
Root MSE	=	.47885

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-.3473877	.1504561	-2.31	0.022	-.6441766	-.0505988
patient	.0044614	.0021227	2.10	0.037	.0002741	.0086486
bp	-.0186864	.0033354	-5.60	0.000	-.0252658	-.012107
_cons	4.215642	.4800821	8.78	0.000	3.268634	5.162649

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(3, 163)	=	8.55
Prob > F	=	0.0000
R-squared	=	0.0993
Root MSE	=	.47927

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-.2673843	.1636602	-1.63	0.104	-.5905518	.0557832
patient	.0038716	.0023375	1.66	0.100	-.0007441	.0084873
bp	-.020319	.0040177	-5.06	0.000	-.0282525	-.0123855
_cons	4.435791	.5716269	7.76	0.000	3.307042	5.56454

added macro:  
e(bpge185) : **"No"**

added macro:  
e(bpge180) : **"No"**

added macro:  
e(bpge170) : **"No"**

added macro:  
e(bpge160) : **"Yes"**  
m1 m2 m3 m4 m5 m6  
st\_panel:panel\_b, it\_reg\_ctr:7, st\_cur\_srg\_name:srg\_panel\_b\_col\_1

Linear regression

Number of obs	=	240
F(5, 234)	=	3.26
Prob > F	=	0.0073
R-squared	=	0.0573
Root MSE	=	.49164

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	.8621649	.7620109	1.13	0.259	-.6391137	2.363443
sex#c.patient						
Male	.0020791	.0029455	0.71	0.481	-.003724	.0078822
Female	.003764	.0027167	1.39	0.167	-.0015883	.0091163
sex#c.bp						
Male	-.0062902	.0036324	-1.73	0.085	-.0134467	.0008662
Female	-.0141569	.0038831	-3.65	0.000	-.0218072	-.0065065
_cons	2.426619	.5354844	4.53	0.000	1.371633	3.481606

added macro:  
e(bpge185) : **"Yes"**

added macro:  
e(bpge180) : **"Yes"**

added macro:  
e(bpge170) : **"Yes"**

added macro:  
e(bpge160) : **"Yes"**  
st\_panel:panel\_b, it\_reg\_ctr:8, st\_cur\_srg\_name:srg\_panel\_b\_col\_2

Linear regression

Number of obs	=	232
F(5, 226)	=	3.28
Prob > F	=	0.0071
R-squared	=	0.0617
Root MSE	=	.49073

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	.2920941	.8400879	0.35	0.728	-1.363313	1.947501
sex#c.patient						
Male	.0023233	.0029951	0.78	0.439	-.0035786	.0082252
Female	.0038127	.002732	1.40	0.164	-.0015708	.0091961
sex#c.bp						
Male	-.0095492	.0038502	-2.48	0.014	-.017136	-.0019623
Female	-.0136001	.0043714	-3.11	0.002	-.0222139	-.0049862
_cons	2.910885	.5600407	5.20	0.000	1.807315	4.014454

added macro:  
e(bpge185) : **"No"**

added macro:  
e(bpge180) : **"Yes"**

added macro:  
e(bpge170) : **"Yes"**

added macro:  
e(bpge160) : **"Yes"**  
st\_panel:panel\_b, it\_reg\_ctr:9, st\_cur\_srg\_name:srg\_panel\_b\_col\_3

Linear regression

Number of obs	=	227
F(5, 221)	=	4.58
Prob > F	=	0.0005
R-squared	=	0.0771
Root MSE	=	.48681

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	.8609337	.8371369	1.03	0.305	-.788859	2.510726
sex#c.patient						
Male	.0017541	.0030481	0.58	0.566	-.0042529	.007761
Female	.0037192	.0027196	1.37	0.173	-.0016406	.009079
sex#c.bp						
Male	-.0092162	.0040809	-2.26	0.025	-.0172586	-.0011738
Female	-.0172075	.0041272	-4.17	0.000	-.0253411	-.0090738
_cons	2.875463	.5910456	4.87	0.000	1.710656	4.040269

added macro:  
e(bpge185) : **"No"**

added macro:  
e(bpge180) : **"No"**

added macro:  
e(bpge170) : **"Yes"**

added macro:  
e(bpge160) : **"Yes"**  
st\_panel:panel\_b, it\_reg\_ctr:10, st\_cur\_srg\_name:srg\_panel\_b\_col\_4

Linear regression

Number of obs	=	212
F(5, 206)	=	4.65
Prob > F	=	0.0005
R-squared	=	0.0803
Root MSE	=	.48634

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	1.17611	.9093919	1.29	0.197	-.6167985	2.969019
sex#c.patient						
Male	.0025878	.0032226	0.80	0.423	-.0037657	.0089412
Female	.0033171	.0027186	1.22	0.224	-.0020427	.0086769
sex#c.bp						
Male	-.0087235	.0047486	-1.84	0.068	-.0180856	.0006385
Female	-.0185012	.0041621	-4.45	0.000	-.0267071	-.0102953
_cons	2.78312	.6880095	4.05	0.000	1.426677	4.139563

added macro:  
e(bpge185) : **"No"**

added macro:  
e(bpge180) : **"No"**

added macro:  
e(bpge170) : **"Yes"**

added macro:  
e(bpge160) : **"Yes"**  
st\_panel:panel\_b, it\_reg\_ctr:11, st\_cur\_srg\_name:srg\_panel\_b\_col\_5

Linear regression

Number of obs	=	193
F(5, 187)	=	7.63
Prob > F	=	0.0000
R-squared	=	0.1099
Root MSE	=	.47908

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	1.104909	.9431351	1.17	0.243	-.7556425	2.965461
sex#c.patient						
Male	.00516	.0032845	1.57	0.118	-.0013195	.0116395
Female	.0041048	.0027399	1.50	0.136	-.0013003	.0095099
sex#c.bp						
Male	-.0142973	.0049807	-2.87	0.005	-.0241228	-.0044717
Female	-.023693	.0043542	-5.44	0.000	-.0322827	-.0151032
_cons	3.532761	.716229	4.93	0.000	2.119834	4.945688

added macro:  
e(bpge185) : **"No"**

added macro:  
e(bpge180) : **"No"**

added macro:  
e(bpge170) : **"No"**

added macro:  
e(bpge160) : **"Yes"**  
st\_panel:panel\_b, it\_reg\_ctr:12, st\_cur\_srg\_name:srg\_panel\_b\_col\_6

Linear regression

Number of obs	=	167
F(5, 161)	=	5.31
Prob > F	=	0.0002
R-squared	=	0.1008
Root MSE	=	.48183

when	Coef.	Robust Std. Err.	t	P> t	[95% Conf. Interval]	
sex	.3856803	1.149591	0.34	0.738	-1.884541	2.655902
sex#c.patient						
Male	.0043715	.0038306	1.14	0.255	-.0031932	.0119362
Female	.003565	.0029592	1.20	0.230	-.0022789	.0094089
sex#c.bp						
Male	-.0184108	.0059057	-3.12	0.002	-.0300734	-.0067482
Female	-.0225825	.0055593	-4.06	0.000	-.0335612	-.0116039
_cons	4.139463	.8301041	4.99	0.000	2.500167	5.77876

added macro:  
e(bpge185) : **"No"**

added macro:  
e(bpge180) : **"No"**

added macro:  
e(bpge170) : **"No"**

added macro:  
e(bpge160) : **"Yes"**  
m7 m8 m9 m10 m11 m12

```
. Saturday August 24 20:55:44 2019    Page 7
.      di "$smd_panel_a_m"
m1 m2 m3 m4 m5 m6

.      di "$smd_panel_b_m"
m7 m8 m9 m10 m11 m12

.
. //////////////////////////////////////////////////
> ///--- D1. Labeling
> //////////////////////////////////////////////////
>
. ///--- Title overall
>      global slb_title "Outcome: Before or After"

.      global slb_title_inner "\textbf{Continuous}: BP and patient are continuous"

.      global slb_label_tex "tab:sccts"

.
. ///--- Several RHS Continuous Variables
>      global slb_panel_a "Panel A: Continuous Vars and Discretes"

.
. ///--- Continuous Variables + Several Discrete Variables
>      global slb_panel_b "Panel B: Interact Cts Vars with Discrete"

.      global slb_panel_b_ga "Interact with Male:"

.      global slb_panel_b_gb "Interact with Female:"

.
. ///--- 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 "
>          sex patient bp
>          ";

.      global svr_coef_keep_panel_b "
>          sex
>
>          0.sex#patient
>          0.sex#bp
>
>          1.sex#patient
>          1.sex#bp
>          ";

.      #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 "sex";

.      global slb_coef_label_panel_a "
>          sex "${slb_1st_ele_spc}sex variable (discrete)"
>          patient "${slb_1st_ele_spc}patient ID (cts)"
>          bp "${slb_1st_ele_spc}blood pressure (cts)"
>          ";

.      #delimit cr
delimiter now cr

.      #delimit;
delimiter now ;
.      global svr_starts_var_panel_b "sex";

.      global svr_starts_var_panel_b_ga "0.sex#c.patient";

.      global svr_starts_var_panel_b_gb "1.sex#c.patient";

.      global slb_coef_label_panel_b "
>          sex "${slb_1st_ele_spc}sex variable (discrete)"
>
>          0.sex#c.patient "${slb_1st_ele_spc} $\times$ patient ID"
>          0.sex#c.bp "${slb_1st_ele_spc} $\times$ blood pressure"
>
>          1.sex#c.patient "${slb_1st_ele_spc} $\times$ patient ID"
>          1.sex#c.bp "${slb_1st_ele_spc} $\times$ blood pressure"
>          ";

.      #delimit cr
delimiter now cr
.
```

```
. Saturday August 24 20:55:44 2019 Page 8
> //////////////////////////////////////////
> ///--- 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)) $slb_sd_tex)\"'
.
.      global slb_esttab_opt_tex "${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(${slb_coef_label_panel_a})
>          ";
.
.      global slb_panel_b main "
>          title("${slb_panel_b}")
>          keep(${svr_coef_keep_panel_b}) order(${svr_coef_keep_panel_b})
>          coeflabels(${slb_coef_label_panel_b})
>          ";
.
.      #delimit cr
delimiter now cr
.
.      //////////////////////////////////////////
> ///--- E. Regression Shows
> //////////////////////////////////////////
>
.      esttab ${smd_panel_a_m}, ${slb_panel_a_main} ${slb_esttab_opt_txt}
```

Panel A: Continuous Vars and Discretes

	bp <= 185	bp <= 180	bp <= 175	bp <= 170	bp <= 165	bp <=
\\vspace*{0mm}\\hspace*{5mm}se~a	<b>-0.24*</b> (0.14)	<b>-0.24*</b> (0.14)	<b>-0.24*</b> (0.14)	<b>-0.26*</b> (0.15)	<b>-0.35**</b> (0.15)	<b>-0.35**</b> (0.15)
\\vspace*{0mm}\\hspace*{5mm}pa~n	0.0029 (0.0020)	0.0031 (0.0020)	0.0028 (0.0020)	0.0030 (0.0021)	0.0045** (0.0021)	0.0045** (0.0021)
\\vspace*{0mm}\\hspace*{5mm}bl~	<b>-0.0097***</b> (0.0026)	<b>-0.011***</b> (0.0028)	<b>-0.013***</b> (0.0029)	<b>-0.014***</b> (0.0031)	<b>-0.019***</b> (0.0033)	<b>-0.019***</b> (0.0033)
N	240	232	227	212	193	193
bpge185	Yes	No	No	No	No	No
bpge180	Yes	Yes	No	No	No	No
bpge170	Yes	Yes	Yes	Yes	No	No
bpge160	Yes	Yes	Yes	Yes	Yes	Yes

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

```
.      esttab ${smd_panel_b_m}, ${slb_panel_b_main} ${slb_esttab_opt_txt}
```

Panel B: Interact Cts Vars with Discrete

	bp <= 185	bp <= 180	bp <= 175	bp <= 170	bp <= 165	bp <=
\\vspace*{0mm}\\hspace*{5mm}se~a	<b>0.86</b> (0.76)	<b>0.29</b> (0.84)	<b>0.86</b> (0.84)	<b>1.18</b> (0.91)	<b>1.10</b> (0.94)	<b>1.10</b> (0.94)
\\vspace*{0mm}\\hspace*{5mm} \$~m	0.0021 (0.0029)	0.0023 (0.0030)	0.0018 (0.0030)	0.0026 (0.0032)	0.0052 (0.0033)	0.0052 (0.0033)
\\vspace*{0mm}\\hspace*{5mm} \$~m	<b>-0.0063*</b> (0.0036)	<b>-0.0095**</b> (0.0039)	<b>-0.0092**</b> (0.0041)	<b>-0.0087*</b> (0.0047)	<b>-0.014***</b> (0.0050)	<b>-0.014***</b> (0.0050)
\\vspace*{0mm}\\hspace*{5mm} \$~m	0.0038 (0.0027)	0.0038 (0.0027)	0.0037 (0.0027)	0.0033 (0.0027)	0.0041 (0.0027)	0.0041 (0.0027)
\\vspace*{0mm}\\hspace*{5mm} \$~m	<b>-0.014***</b> (0.0039)	<b>-0.014***</b> (0.0044)	<b>-0.017***</b> (0.0041)	<b>-0.019***</b> (0.0042)	<b>-0.024***</b> (0.0044)	<b>-0.024***</b> (0.0044)
N	240	232	227	212	193	193
bpge185	Yes	No	No	No	No	No
bpge180	Yes	Yes	No	No	No	No
bpge170	Yes	Yes	Yes	Yes	No	No
bpge160	Yes	Yes	Yes	Yes	Yes	Yes

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

```
.      //////////////////////////////////////////
> ///--- F1. 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 st_cmrule "\cmidrule(lr){2-3}\cmidrule(lr){4-5}\cmidrule(lr){6-7}"
.      global st_cmrule "\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 = 2

.      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:12
```

```
.      di "totCoefColWid:${totCoefColWid}"
totCoefColWid:12
```

```
.      di "totCoefColWid:${totCoefColWid}"
totCoefColWid:12
```

```
.      di "totCoefColWid:${totCoefColWid}"
totCoefColWid:12
```

```
.      di "totCoefColWid:${totCoefColWid}"
totCoefColWid:12
```

```
.      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{2cm} >{\centering\arraybackslash}m{2cm} >{\centering\arraybackslash}m{2cm} >{\centering\arraybackslash}m{2cm}
```

```
.      //////////////////////////////////////////
>      ///--- Gla. Tex Sectioning panel A
>      //////////////////////////////////////////
>
```

```
.      #delimit ;
delimiter now ;
```

```
. Saturday August 24 20:55:44 2019 Page 10
> global slb_titling_panel_a "
>     ${svr_starts_var_panel_a} "\multicolumn${totColCnt}{L${totColWidLegend}cm}}{{slb_title_spc}\textbf{{slb_panel_a}}} \\"
>     ";
>
>     global slb_refcat_panel_a `\"refcat(${slb_titling_panel_a}, nolabel)\"';
>
>     #delimit cr
> delimiter now cr
>
>     //////////////////////////////////////////
>     ///--- Glb. Tex Sectioning panel B
>     //////////////////////////////////////////
>
>     if ("${svr_starts_var_panel_b}" == "${svr_starts_var_panel_b_ga}") {
>         #delimit ;
> delimiter now ;
>         global svr_starts_pb_andga "
>             ${svr_starts_var_panel_b}
>             "\multicolumn${totColCnt}{L${totColWidLegend}cm}}{{slb_title_spc}\textbf{{slb_panel_b}}} \\"
>             "\multicolumn${totColCnt}{L${totColWidLegend}cm}}{{slb_dis_tlt_spc}\textit{{slb_panel_b_ga}}} \\"
>             ";
>         #delimit cr
> delimiter now cr
>         }
>
>     else {
>         #delimit ;
> delimiter now ;
>         global svr_starts_pb_andga "
>             ${svr_starts_var_panel_b}
>             "\multicolumn${totColCnt}{L${totColWidLegend}cm}}{{slb_title_spc}\textbf{{slb_panel_b}}} \\"
>             "${svr_starts_var_panel_b_ga}
>             "\multicolumn${totColCnt}{L${totColWidLegend}cm}}{{slb_dis_tlt_spc}\textit{{slb_panel_b_ga}}} \\"
>             ";
>         #delimit cr
> delimiter now cr
>         }
>
>     #delimit ;
> delimiter now ;
>     global slb_titling_panel_b "
>         ${svr_starts_pb_andga}
>         ${svr_starts_var_panel_b_gb}
>         "\multicolumn${totColCnt}{L${totColWidLegend}cm}}{{slb_dis_tlt_spc}\textit{{slb_panel_b_gb}}} \\"
>         ";
>
>     global slb_refcat_panel_b `\"refcat(${slb_titling_panel_b}, 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_1st_spc}${slb_estd_2}\"
>             "${slb_fot_1st_spc}${slb_estd_3}\"
>             "${slb_fot_1st_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 cmidrule ""
>
>     global colCtr = -1
>
>     foreach curCol of numlist $colSeq {
> 2.
>         global colCtr = $colCtr + 1
> 3.         global curCollMin = `curCol' - 1
> 4.         if ($colCtr == 0 ) {
> 5.             global minCoefCol = "`curCol'"
> 6.         }
> 7.         if ($colCtr != 0 ) {
> 8.             global gapCnt = (`curCol' - `lastCol')
> 9.             global gapWidth = (`curCol' - `lastCol')*$perCoefColWid
> 10.            di "curCollMin:$curCollMin, lastCol:`lastCol'"
> 11.            di "$gapCnt"
> 12.
```

```
. Saturday August 24 20:55:44 2019 Page 11
. di "\multicolumn{$gapCnt}{C{$gapWidth}cm}}{\small no Control}"
13. di "\cmidrule(1{5pt}r{5pt}){\`lastCol'-$curCollMin}"
14.
. global curRow2MidLine "\cmidrule(1{5pt}r{5pt}){\`lastCol'-$curCollMin}"
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.
. }
curCollMin:3, lastCol:2
2
\multicolumn{2}{C{4cm}}{\small no Control}
\cmidrule(1{5pt}r{5pt}){2-3}
curCollMin:5, lastCol:4
2
\multicolumn{2}{C{4cm}}{\small no Control}
\cmidrule(1{5pt}r{5pt}){4-5}
curCollMin:7, lastCol:6
2
\multicolumn{2}{C{4cm}}{\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{12cm}}{\textbf{Continuous}: BP and patient are continuous} \\\

. di "$row1MidLine "
\cmidrule(1{5pt}r{5pt}){2-7}

. di "$row2 \\"
& \multicolumn{2}{L{4cm}}{\small All Age 5 to 12} & \multicolumn{2}{L{4cm}}{\small Girls Age 5 to 12} & \multicolumn{2}{L{4cm}}{\small Boys Age 5 to 12}

. 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{2cm}}{\small All Villages} & \multicolumn{1}{C{2cm}}{\small No Teaching Points} & \multicolumn{1}{C{2cm}}{\small No Teaching Points} & \multicolumn{1}{C{2cm}}{\small No Teaching Points} & \multicolumn{1}{C{2cm}}{\small No Teaching Points} & \multicolumn{1}{C{2cm}}{\small No Teaching Points} \\
> s}} & \multicolumn{1}{C{2cm}}{\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})";

. 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_cts_inter\tab_6col_cts_inter.html)

. esttab ${smd_panel_b_m} using "${st_out_html}", ${slb_panel_b_main} ${slb_esttab_opt_txt} append
(output written to ~\Stata4Econ\table\multipanel\tab_6col_cts_inter\tab_6col_cts_inter.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_cts_inter\tab_6col_cts_inter.rtf)

. esttab ${smd_panel_b_m} using "${st_out_rtf}", ${slb_panel_b_main} ${slb_esttab_opt_txt} append
(output written to ~\Stata4Econ\table\multipanel\tab_6col_cts_inter\tab_6col_cts_inter.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_txt} ///
. fragment $headlineAll postfoot("") replace
(output written to ~\Stata4Econ\table\multipanel\tab_6col_cts_inter\tab_6col_cts_inter_textbody.tex)

.
. esttab $smd_panel_b_m using "${st_out_tex}", ///
> ${slb_panel_b_main} ///
> ${slb_refcat_panel_b} ///
> ${slb_esttab_opt_txt} ///
> ${slb_titling_bottom} ///
> fragment prehead("") $postAll append
(output written to ~\Stata4Econ\table\multipanel\tab_6col_cts_inter\tab_6col_cts_inter_textbody.tex)

.
. ///////////////////////////////////////////////////
> ///--- I. Out Logs
> ///////////////////////////////////////////////////
>
. ///--- End Log and to HTML
> log close
. name: <unnamed>
. log: C:\Users\fan\Stata4Econ\table\multipanel\tab_6col_cts_inter\gen_reg.smcl
. log type: smcl
. closed on: 24 Aug 2019, 20:55:44

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