```
Sunday August 25 09:58:26 2019 Page 1
. 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 varible and discrete variables, discrete variables could interact with each other, and interact with continuous varible and discrete variables, discrete variables could interact with each other, and interact with continuous varible and discrete variables, discrete variables could interact with each other, and interact with continuous varible and discrete variables, discrete variables could interact with each other, and interact with continuous variables.
> */
. ///--- File Names
> global st_file_root "~\Stata4Econ\table\tabsumm\tab_mcol_npanel\"
. global st_log_file "${st_file_root}gen_reg"
. global st_out_html "${st_file_root}tab_mcol_npanel.html"
. global st_out_rtf "${st_file_root}tab_mcol_npanel.rtf"
. global st_out_tex "${st_file_root}tab_mcol_npanel_texbody.tex"
. ///--- Start log
> capture log close
. log using "${st_log_file}" , replace (note: file C:\Users\fan\Stata4Econ\table\tabsumm\tab_mcol_npanel\gen_reg.smcl not found)
        log: C:\Users\fan\Stata4Econ\table\tabsumm\tab mcol npanel\gen reg.smcl
  log type:
               smcl
 opened on: 25 Aug 2019, 09:58:24
. 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
                        Freq.
                                    Percent
                                                       Cum.
          Sex
        Male
                          120
                                       50.00
                                                      50.00
                                                           0
```

Female	120	50.00	100.00
Total	240	100.00	
. tab agegrp			
Age Group	Freq.	Percent	Cum.
30-45 46-59 60+	80 80 80	33.33 33.33 33.33	33.33 66.67 100.00
Total	240	100.00	
. tab when			
Status	Freq.	Percent	Cum.
Before After	120 120	50.00 50.00	50.00 100.00
Total	240	100.00	

. tab sex when

	Statu	I	
Sex	Before	After	Total
Male Female	60 60	60 60	120 120
Total	120	120	240

. tab sex agegrp

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

```
Sunday August 25 09:58:26 2019 Page 2
. egen sex_when = group(sex when), label
. egen sex_agegrp = group(sex agegrp), label
. egen when_agegrp = group(when agegrp), label
. drop if agegrp == 2 & sex_when == 3
(20 observations deleted)
. set seed 123
. gen rand1 = floor(runiform()*2)
. gen rand2 = floor(runiform()*20)
. gen rand3 = floor(runiform()*3000)
> ///--- A1. Define Regression Variables
* shared variables to summarize over
        global svr_summ "bp patient rand1 rand2"
        * for each column, conditioning differs
        global it_colcate_n = 4
        global it_rowcate_n = 3
        global sif_colcate_1 "sex_when == 1"
        global sif_colcate_2 "sex_when == 2"
        global sif_colcate_3 "sex_when == 3"
        global sif_colcate_4 "sex_when == 4"
        global sif_rowcate_1 "agegrp == 1"
        global sif_rowcate_2 "agegrp == 2"
        global sif rowcate 3 "agegrp == 3"
> ///--- A2. Titling
global slb_title "Cross Tabulate Age, Gender and Time Statistics"
        global slb_title_inner "Tabulate Stats: \textbf{Mean} (\textit{S.D.})"
        global slb_label_tex "tab:sctabsumm"
> ///--- A3. Row Labeling
. ///--- Row Tab Names
       global slb rowcate 1 "Group 1: Age 30 to 45"
        global slb_rowcate_2 "Group 2: Age 46 to 59"
        global slb_rowcate_3 "Group 3: Age >60"
. ///--- Var Subgroup Subtitling
        global slb_subvargrp_1 "Summ Group One (cts)"
        global slb_subvargrp_2 "Summ Group Two (discrete)"
label variable bp "${slb_var_spc}Blood pressure"
        label variable patient "${slb var spc}Patient ID"
        label variable rand1 "${slb_var_spc}Random \textit{Male} or \textit{Female}"
        label variable rand2 "${slb_var_spc}Random Three Cates \textbf{after}"
        label variable rand3 "${slb var spc}Random Thousands"
. ///--- Labeling Head Tag
       global svr_first "bp"
        global svr_first_subvargrp_1 "bp"
        global svr_first_subvargrp_2 "rand1"
```

```
Sunday August 25 09:58:26 2019
                                Page 3
         global colSeq "2 4 6"
         global st_cmidrule "\cmidrule(lr){2-3}\cmidrule(lr){4-5}"
         ///--- Group 1, columns 1 and 2 global labG1 "Male" \,
         global labC1 "{\small Before}"
         global labC2 "{\small After}"
         ///--- Group 2, columns 3 and 4
global labG2 "Female"
         global labC3 "{\small Before}"
         global labC4 "{\small After}"
         ///--- Column Widths
         global perCoefColWid = 1.75
         global\ labColWid = 7
         global footExtraWidth = 1.1
         global slb_title_spc "\vspace*{-3mm}"
         global slb_foot_spc "\vspace*{-3mm}"
         ///--- Column Fractional Adjustment, 1 = 100%
         global tableAdjustBoxWidth = 1.0
> ///--- A5. Additional Statistics
> |||||||||
. ///--- Notes
         global slb bottom "Controls for each panel:"
         global slb note "Summary statistics cross tabulate for various variables. Table shows mean and standard deviation for each group
 > ///--- A6. Define Summarizing Technical Strings
. ///--- Technical Controls
         global stc_regc "estpost tabstat"
         global stc opts ", statistics (mean sd p10 p50 p90) c(s)"
         global stc_stats_main "mean"
         global stc_stats_paren "sd"
di "$srg cate row1 col1"
                 di "$srg_cate_row2_col2"
                 di "$srg_cate_row1_col2"
         foreach it_rowcate of numlist 1(1)$it_rowcate_n {
                   foreach it colcate of numl\overline{1}st 1(1)\overline{5}it colcate n {
 3.
                           #delimit;
delimiter now ;
                                global srg cate row`it rowcate' col`it colcate' "
                                $stc_regc \sums svr_summ if \${sif_colcate_`it_colcate'} & \${sif_rowcate_`it_rowcate'}
                           #delimit cr
delimiter now cr
                        di "${srg_cate_row`it_rowcate'_col`it_colcate'}"
 5.
                    }
  6.
                               estpost tabstat bp patient rand1 rand2 if sex_when == 1 & agegrp == 1
                               estpost tabstat bp patient rand1 rand2 if sex when == 2 & agegrp == 1
                               estpost tabstat bp patient rand1 rand2 if sex_when == 3 & agegrp == 1
                               estpost tabstat bp patient rand1 rand2 if sex_when == 4 & agegrp == 1 estpost tabstat bp patient rand1 rand2 if sex_when == 1 & agegrp == 2
                               estpost tabstat bp patient rand1 rand2 if sex_when == 2 & agegrp == 2
                               estpost tabstat bp patient rand1 rand2 if sex_when == 3 & agegrp == 2
                               estpost tabstat bp patient rand1 rand2 if sex when == 4 & agegrp == 2
                               estpost tabstat bp patient rand1 rand2 if sex_when == 1 & agegrp == 3
                               estpost tabstat bp patient rand1 rand2 if sex when == 2 & agegrp == 3
                               estpost tabstat bp patient rand1 rand2 if sex when == 3 & agegrp == 3
                               estpost tabstat bp patient rand1 rand2 if sex when == 4 & agegrp == 3
```

> ///--- C. Run Regressions

eststo clear

```
Sunday August 25 09:58:26 _{\rm c}2019 _{\rm 0} Page 4
          foreach it rowcate of numlist 1(1)$it rowcate n {
  2.
                   global st cur sm store "smd `it rowcate' m"
                      global ${st_cur_sm_store} ""
  3.
  4.
                   foreach it colcate of numlist 1(1) $it colcate n {
  5.
                           local it_tabcell_ctr = `it_tabcell_ctr' + 1
    global st_cur_srg_name "srg_cate_row`it_rowcate'_col`it_colcate'"
  7.
                           di "it_rowcate:`it_rowcate', it_tabcell_ctr:`it_tabcell_ctr', st_cur_srg_name:${st_cur_srg_name}"
  8.
                           ///--- Summ Stats
                           count if ${sif_colcate_`it_colcate'} & ${sif_rowcate_`it_rowcate'}
 9.
                              global curcount = r(N)
                               if ($curcount>1) {
 10.
                                       eststo m`it_tabcell_ctr', title("${sif_colcate_`it_colcate'}") : ${$st_cur_srg_name} ${stc_opts}
 11.
 13.
                              else {
                                       ///--- This means this tabulated subgroup has N = 0
14.
                                    * Generate a fake observation to create a new estimated model
                                    * Then replace the observation N by setting it to 0, otherwise N = 1 \,
                                    capture drop aaa
15.
                                       gen aaa = 0 if n == 1
                                       eststo m`it_tabcell_ctr', title("${sif_colcate_`it_colcate'}") : estpost tabstat aaa , statistics(n)
 16.
17.
                                       estadd scalar N = 0, replace
19.
                           ///--- Track Regression Store
                           global $st_cur_sm_store "${${st_cur_sm_store}} m`it_tabcell_ctr'"
20.
21.
                   di "${${st_cur_sm_store}}"
22.
it_rowcate:1, it_tabcell_ctr:1, st_cur_srg_name:srg_cate_row1_col1
  20
Summary statistics: mean sd p10 p50 p90 \,
     for variables: bp patient rand1 rand2
                                                      e(p50)
                                          e(p10)
                                                                  e(p90)
                  e(mean)
                               e(sd)
          bp
                   153.45
                             9.95503
                                              143
                                                       152.5
                                                                     169
     patient
                             5.91608
                                              2.5
                                                        10.5
                                                                    18.5
                     10.5
       rand1
                             . 5129892
                                                0
                            5.593935
       rand2
                     9.85
                                              2.5
                                                        10.5
                                                                    17.5
it_rowcate:1, it_tabcell_ctr:2, st_cur_srg_name:srg_cate_row1_col2
  20
Summary statistics: mean sd p10 p50 p90 \,
     for variables: bp patient rand1 rand2
                                          e(p10)
                                                      e(p50)
                                                                  e(p90)
                  e(mean)
                               e(sd)
          bp
                            14.05806
                                           128.5
                                                       144.5
                                                                     166
     patient
                     10.5
                             5.91608
                                                        10.5
                                                                    18.5
                                             2.5
       rand1
                      . 65
                             .4893605
                                                0
       rand2
                    11.25
                              5.9283
                                              2.5
                                                          12
                                                                      18
it_rowcate:1, it_tabcell_ctr:3, st_cur_srg_name:srg_cate_row1_col3
  20
Summary statistics: mean sd p10 p50 p90 \,
     for variables: bp patient rand1 rand2
                                          e(p10)
                                                      e (p50)
                                                                  e(p90)
                  e(mean)
                               e(sd)
                    149.9
                            8.378544
                                           141.5
                                                         147
                                                                     164
          bp
     patient
                     70.5
                             5.91608
                                                        70.5
                                                                    78.5
                                            62.5
       rand1
                      .75
                             . 4442617
                                                0
                                                           1
                      7.8
                                             2.5
       rand2
                            4.818823
                                                                      15
it_rowcate:1, it_tabcell_ctr:4, st_cur_srg_name:srg_cate_row1_col4
  20
Summary statistics: mean sd p10 p50 p90 \,
     for variables: bp patient rand1 rand2
                                                                  e(p90)
                                          e(p10)
                                                      e(p50)
                  e(mean)
                               e(sd)
          bp
                            9.122557
                                             132
                                                         143
                                                                     150
                     70.5
                             5.91608
                                                        70.5
                                                                    78.5
     patient
                                             62.5
       rand1
                      . 45
                             .5104178
                                                0
                                                            0
       rand2
                     7.65
                            5.815361
                                                                    16.5
m1 m2 m3 m4
it rowcate:2,
              it_tabcell_ctr:5, st_cur_srg_name:srg_cate_row2_col1
Summary statistics: mean sd p10 p50 p90
     for variables: bp patient rand1 rand2
```

e(mean) e(sd) e(p10) e(p50) e(p90)159.05 12.37772 145 157.5 179.5 bp patient 30.5 5.91608 22.5 30.5 38.5 rand1 .5026247 0 9.25 9 17.5 rand2 5.466405 3.5 it\_rowcate:2, it\_tabcell\_ctr:6, st\_cur\_srg\_name:srg\_cate\_row2\_col2

Summary statistics: mean sd p10 p50 p90  $\,$ for variables: bp patient rand1 rand2

e(mean) e(sd) e(p10) e(p50)e(p90)157.25 15.56269 158 179 136 bp 5.91608 patient 30.5 22.5 30.5 38.5 rand1 .5129892 0 . 5 8.55 7.5 rand2 6.278409 1 16.5 it\_rowcate:2, it\_tabcell\_ctr:7, st\_cur\_srg\_name:srg\_cate\_row2\_col3

(219 missing values generated)

```
Sunday August 25:09:58:26 2019 Page 5
     for variables: aaa
                e(count)
         aaa
added scalar:
                  e(N) = 0
it_rowcate:2, it_tabcell_ctr:8, st_cur_srg_name:srg_cate_row2_col4
Summary statistics: mean sd p10 p50 p90
    for variables: bp patient rand1 rand2
                 e(mean)
                             e(sd)
                                       e(p10)
                                                 e(p50)
                                                             e(p90)
                          10.06348
                                                     145
                                                                157
                   144.3
                                          132
         bp
                           5.91608
     patient
                    90.5
                                          82.5
                                                     90.5
                                                                98.5
      rand1
                           .5129892
                                             0
                    8.15
                          5.373179
                                             2
                                                      7.5
       rand2
                                                                  16
 m5 m6 m7 m8
it_rowcate:3, it_tabcell_ctr:9, st_cur_srg_name:srg_cate_row3_col1
Summary statistics: mean sd p10 p50 p90
    for variables: bp patient rand1 rand2
                                       e(p10)
                e(mean)
                             e(sd)
                                                                 175
         рb
                           8.844267
                                         154.5
                                                     167
     patient
                           5.91608
                                                                58.5
                           .5104178
                                             0
      rand1
                    . 55
                                                       1
                                                                   1
                   7.15
                                                     7.5
       rand2
                          5.402485
                                             0
                                                                15.5
it_rowcate:3, it_tabcell_ctr:10, st_cur_srg_name:srg_cate_row3_col2
 \overline{2}0
Summary statistics: mean sd p10 p50 p90
    for variables: bp patient rand1 rand2
                                       e(p10)
                e(mean)
                             e(sd)
                  162.85
                                         146.5
                                                               180.5
         bp
                           11.63604
                                                     163
     patient
                           5.91608
                           .5104178
                                             0
      rand1
                    . 55
                                                       1
                                                                  1
       rand2
                    9.85
                          5.546692
                                          2.5
                                                      12
                                                                  16
it rowcate:3, it tabcell ctr:11, st cur srg name:srg cate row3 col3
 \overline{2}0
Summary statistics: mean sd p10 p50 p90
    for variables: bp patient rand1 rand2
                                       e(p10)
                 e(mean)
                             e(sd)
                                         147.5
                  159.85
         bp
                           11.93083
                                                      160
                                                                 178
     patient
                  110.5
                           5.91608
                                                    110.5
                           .5104178
                                             0
      rand1
                    . 45
                                                       0
                                                                  1
       rand2
                   11.4
                          5.275564
                                             3
                                                      12
                                                                  18
it_rowcate:3, it_tabcell_ctr:12, st_cur_srg_name:srg_cate_row3_col4
 \overline{2}0
Summary statistics: mean sd p10 p50 p90
    for variables: bp patient rand1 rand2
                 e(mean)
                              e(sd)
                                       e(p10)
                                                              e(p90)
                                                               175.5
         рb
                   155.1
                           11.95122
                                         141.5
                                                      152
     patient
                   110.5
                           5.91608
                                                    110.5
                                                               118.5
                                             0
      rand1
                           .5026247
                      . 6
                                                       1
                                                                  1
       rand2
                   10.75
                           6.086006
                                             2
                                                       12
                                                                  18
 m9 m10 m11 m12
          di "$smd 1 m"
m1 m2 m3 m4
          di "$smd 2 m"
m5 m6 m7 m8
          di "$smd 3 m"
m9 m10 m11 m12
> ///--- D2. Regression Display Controls
global slb_reg_stats "N"
          global sd `""'
          global keepcellstats "cells(mean(fmt(a2)) $sd) wide"
          global \ slb\_sd\_tex \ `"\$\{stc\_stats\_paren\} (fmt(a2) \ par("\vspace*\{-2mm\}\{\footnotesize \ (" \ ") \ \}"))""
```

global slb cells tex `"cells(\${stc stats main}(fmt(a2)) \$slb sd tex) wide"'

global slb\_sd\_txt `"\${stc\_stats\_paren}(fmt(a2) par("(" ")"))"'

global slb\_esttab\_opt\_tex "\${slb\_cells\_tex} booktabs label collabels(none) nomtitles nonumbers star(\${slb\_starLvl})"

```
Sunday August 25109:58:26 2019 cells (${stc_stats_main}(fmt(a2)) $slb_sd_txt) wide"'
                                       global slb_esttab_opt_txt "${slb_cells_txt} stats(${slb_reg_stats}) collabels(none) mtitle nonumbers varwidth(30) modelwidth(15)
       > ///--- E. Summ Stats Shows
> |||||||||
                                        foreach it_rowcate of numlist 1(1)$it_rowcate_n {
                                                                                   esttab \frac{1}{m}, title("\frac{1}{m}, title("\frac{1}{m}), title("\frac{1}{m}) | \frac{1}{m} | \frac
       3.
Group 1: Age 30 to 45
                                                                                                                                 sex when == 1
                                                                                                                                                                                                sex_when == 2
                                                                                                                                                                                                                                                               sex_when == 3
                                                                                                                                                                                                                                                                                                                              sex_when == 4
                                                                                                                                                                                                                                                                                                                                                             142.2
                                                                                                                                                                153.4
                                                                                                                                                                                                                               146.4
                                                                                                                                                                                                                                                                                              149.9
bp
                                                                                                                                                               (9.96)
                                                                                                                                                                                                                             (14.1)
                                                                                                                                                                                                                                                                                             (8.38)
                                                                                                                                                                                                                                                                                                                                                            (9.12)
patient
                                                                                                                                                                    10.5
                                                                                                                                                                                                                                  10.5
                                                                                                                                                                                                                                                                                                  70.5
                                                                                                                                                                                                                                                                                                                                                                 70.5
                                                                                                                                                                                                                                                                                                                                                           (5.92)
                                                                                                                                                              (5.92)
                                                                                                                                                                                                                             (5.92)
                                                                                                                                                                                                                                                                                             (5.92)
rand1
                                                                                                                                                                     0.50
                                                                                                                                                                                                                                    0.65
                                                                                                                                                                                                                                                                                                  0.75
                                                                                                                                                                                                                                                                                                                                                                 0.45
                                                                                                                                                               (0.51)
                                                                                                                                                                                                                             (0.49)
                                                                                                                                                                                                                                                                                             (0.44)
                                                                                                                                                                                                                                                                                                                                                           (0.51)
rand2
                                                                                                                                                                    9.85
                                                                                                                                                                                                                                                                                                  7.80
                                                                                                                                                                                                                                                                                                                                                                 7.65
                                                                                                                                                                                                                                  11.3
                                                                                                                                                              (5.59)
                                                                                                                                                                                                                             (5.93)
                                                                                                                                                                                                                                                                                             (4.82)
                                                                                                                                                                                                                                                                                                                                                           (5.82)
Ν
                                                                                                                                                                            20
                                                                                                                                                                                                                                           20
                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                         20
```

Summary statistics cross tabulate for various variables. Table shows mean and standard deviation for each group in parenthesis.

Group 2: Age 46 to 59

	sex_when == 1	sex_when == 2	sex_when == 3	sex_when == 4
bp	159.1	157.3		144.3
	(12.4)	(15.6)		(10.1)
patient	30.5	30.5		90.5
	(5.92)	(5.92)		(5.92)
rand1	0.40	0.50		0.50
	(0.50)	(0.51)		(0.51)
rand2	9.25	8.55		8.15
	(5.47)	(6.28)		(5.37)
N	20	20	0	20

Summary statistics cross tabulate for various variables. Table shows mean and standard deviation for each group in parenthesis.

Group 3: Age >60

	sex_when == 1	sex_when == 2	sex_when == 3	sex_when == 4
bp	165.3	162.8	159.8	155.1
	(8.84)	(11.6)	(11.9)	(12.0)
patient	50.5	50.5	110.5	110.5
	(5.92)	(5.92)	(5.92)	(5.92)
rand1	0.55	0.55	0.45	0.60
	(0.51)	(0.51)	(0.51)	(0.50)
rand2	7.15	9.85	11.4	10.8
	(5.40)	(5.55)	(5.28)	(6.09)
N	20	20	20	20

Summary statistics cross tabulate for various variables. Table shows mean and standard deviation for each group in parenthesis.

```
> ///--- F2. Tabling Calculations
///--- Width Calculation
         global totCoefColWid = ${perCoefColWid}*${it colcate n}
         global totColCnt = ${it_colcate_n} + 1
         global totColWid = ${labColWid} + ${totCoefColWid}
         global totColWidFootnote = ${labColWid} + ${totCoefColWid} + ${footExtraWidth}
         global totColWidLegend = ${labColWid} + ${totCoefColWid}
         global totColWidLegendthin = ${totCoefColWid}
         di "it_colcate_n:$it_colcate_n"
it_colcate_n:4
         di "totCoefColWid:$totCoefColWid"
totCoefColWid:7
         global ampersand ""
         foreach curLoop of numlist 1(1)$it_colcate_n {
 2.
              global ampersand "$ampersand \overline{\&}"
 3.
         di "ampersand:$ampersand"
ampersand: & & & &
         global alignCenter "m{${labColWid}cm}"
         local eB1 ">{\centering\arraybackslash}m{${perCoefColWid}cm}"
```

```
Sunday August 25 09:58:26f2019 rage 7$it_colcate_n {
      2.
                                                global alignCenter "$alignCenter `eB1""
      3.
                                di "alignCenter:$alignCenter"
a lign Center: m\{7cm\} > {\centering\arraybackslash} m\{1.75cm\} > {\centering\arraybac
foreach it_rowcate of numlist 1(1)$it_rowcate_n {
                                                          #delimit ;
delimiter now ;
                                                          global slb titling panel `it rowcate' "
                                                                                    3.
                                                                    global slb_refcat_panel_`it_rowcate' `"refcat(${slb_titling_panel_`it_rowcate'}, nolabel)"';
      4.
                                                                    #delimit cr
delimiter now cr
                             }
> ///--- G1d. Bottom
#delimit ;
delimiter now ;
                               global slb titling bottom `"
                                stats(N,
                                                                                    "\midrule \multicolumn\{ totColCnt \} \{L \{ totColWid \} cm \} \{ slb title spc \} \textbf \{ totColCnt \} \} \{ slb bottom bottom bottom total column bottom 
                                #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 = $colCtr + 1
                                                                    global curCollMin = `curCol' - 1
      4.
                                                                    if ($colCtr == 0 ) {
                                                                                             global minCoefCol = "`curCol'"
                                                                    if ($colCtr != 0 ) {
                                                                                             global gapCnt = (`curCol' - `lastCol')
global gapWidth = (`curCol' - `lastCol')*$perCoefColWid
                                                                                              di "curCollMin:$curCollMin, lastCol:`lastCol'"
   10.
                                                                                              di "$gapCnt"
   11.
   12.
                                                                                    \label{linear_control} \mbox{di "\multicolumn{$gapCnt}{C($gapWidth}cm)}{\mbox{(small no Control)}"} \mbox{}
                                                                                              di "\cmidrule(1{5pt}r{5pt}){ lastCol'-$curCol1Min}"
  13.
  14.
                                                                                    global curRow2MidLine "\cmidrule(l{5pt}r{5pt}){`lastCol'-$curCollMin}"
                                                                                              global row2MidLine "$row2MidLine $curRow2MidLine"
   15.
  16.
                                                                                    global curRow2 "\multicolumn{$gapCnt}{C(${gapWidth}cm}}{\small ${labG${colCtr}}}"
                                                                                             global row2 "$row2 & $curRow2"
  17.
  18.
   19
                                                                   local lastCol = `curCol'
   20.
curCol1Min:3, lastCol:2
 \multicolumn{2}{C{3.5cm}}{\small no Control}
\c (1{5pt}r{5pt}){2-3}
curCol1Min:5, lastCol:4
\mbox{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\m
\c (1{5pt}r{5pt}){4-5}
                                ///--- C. Row 3
                                    Initial & for label column
                                foreach curLoop of numlist 1(1)$it colcate n {
                                                                   global curText "${labC`curLoop'}"
                                                                   global textUse "(`curLoop')"
if ("$curText" != "") {
      3.
                                                                                             global textUse "$curText"
                                                                    global curRow3 "\multicolumn{1}{C{${perCoefColWid}cm}}{{$textUse}}"
                                                                    global row3 "$row3 & $curRow3"
```

}

```
Sunday August 25 09:58:26 2019 Page 8
               ///--- D. Row 1 and midline:
              qlobal row1MidLine "\cmidrule(1{5pt}r{5pt}) {${minCoefCol}-${curCol1Min}}"
               ///--- C.3.E Print lines
              di "$row1 \\"
& \multicolumn{4}{p{7cm}}{Tabulate Stats: \textbf{Mean} (\textit{S.D.})} \\
              di "$row1MidLine "
\cmidrule(1{5pt}r{5pt}){2-5}
              di "$row2 \\"
 & \multicolumn{2}{C(3.5cm}}{\small Male} & \multicolumn{2}{C(3.5cm}}{\small Female} \\
              di "$row2MidLine"
 \cmidrule(1{5pt}r{5pt}){2-3} \cmidrule(1{5pt}r{5pt}){4-5}
              di "$row3 \\"
 & \multicolumn{1}{C\{1.75cm\}}{\{small Before\}} & \multicolumn{1}{C\{1.75cm\}}{\{small Before\}} & \multicolumn{1}{C\{1.75cm\}}{\{small Before\}}
               ///--- C.4 Together
               #delimit ;
delimiter now ;
               ///--- 1. Section
               * local section "
                          * \section{`fileTitle'}\vspace*{-6mm}
               ///--- 2. Align and Column Define
              local centering "$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 "
                                      global startTable "\begin{table}[htbp]
                                       \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 ${smd_1_m} using "${st_out_html}", title("${slb_rowcate_`it_rowcate'}") ${slb_esttab_opt_txt} replace
(output written to <a href="https://www.ncol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_npanel\tab_mcol_n
               esttab ${smd_1_m} using "${st_out_rtf}", title("${slb_rowcate_`it_rowcate'}") ${slb_esttab_opt_txt} replace
(output written to ~\Stata4Econ\table\tabsumm\tab mcol npanel\tab mcol npanel.rtf)
               foreach it rowcate of numlist 2(1)$it_rowcate_n {
                               3.
   4.
 (output written to ~\Stata4Econ\table\tabsumm\tab mcol npanel\tab mcol npanel.html)
 (output written to ~\Stata4Econ\table\tabsumm\tab_mcol_npanel\tab_mcol_npanel.rtf)
(output written to ~\Stata4Econ\table\tabsumm\tab_mcol_npanel\tab_mcol_npanel.html) (output written to ~\Stata4Econ\table\tabsumm\tab mcol_npanel\tab mcol_npanel.rtf)
${slb refcat panel 1} ///
                           ${slb_esttab_opt_tex} ///
                          fragment $headlineAll postfoot("") replace
(output written to ~\Stata4Econ\table\tabsumm\tab mcol npanel\tab mcol npanel texbody.tex)
```

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Sunday August 25 09:58:26 2019 Page 9
         global it_rowcate_n_mins_1 = $it_rowcate_n - 1
         foreach it rowcate of numlist 2(1)$it rowcate n mins 1 {
 2.
                3.
(output written to ~\Stata4Econ\table\tabsumm\tab_mcol_npanel\tab_mcol_npanel_texbody.tex)
         ${slb_refcat_panel_${it_rowcate_n}} //
${slb_esttab_opt_tex} ///
${slb_titling_bottom} ///
                 fragment prehead("") $postAll append
(output written to <u>\Stata4Econ\table\tabsumm\tab_mcol_npanel\tab_mcol_npanel_texbody.tex</u>)
. ///--- \ensuremath{\text{End}} \ensuremath{\text{Log}} and to \ensuremath{\text{HTML}}
> log close
     name: <unnamed>
      log: C:\Users\fan\Stata4Econ\table\tabsumm\tab_mcol_npanel\gen_reg.smcl
 log type: smcl
 closed on: 25 Aug 2019, 09:58:26
. ///--- 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)