Stata Syntax for Section 8.4.2, Chapter 8

This example illustrates efficacy subset analysis using matching estimators. The analysis is based on 50 imputed data files for each outcome variable. There are seven outcome variables and two grades in total. Thus, the number of input data files is 700.

Stata Syntax to Check Sample Size and Create Dosage Groups for Each File

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/\* Chapter 8 Example 2 (for Table 8.7)

Check sample size on each outcome variable across 50 multiply imputed files

and then check distribution of dosage groups for each outcome variable.

To run this program, you need create a folder "D:\psa\_e2\Chapter8\data" first,and then download all data files from the Web site and save them in the current folder.

In this analysis, we had 7 outcome variables, two grades (4th and 5th grades),

and 50 multiply imputed data files for each outcome. Therefore, the total number

of data files are 7x2x50=700 files. These files are named as: g4aca1-g4aca50,

g4agg1-g4agg50, g4emrg1-g4emrg50, g4int1-g4int50, g4pros1-g4pros50,

g4ragg1-g4ragg50, g4scom1-g4scom50, g5aca1-g5aca50, g5agg1-g5agg50, g5emrg1-g5emrg50,

g5int1-g5int50, g5pros1-g5pros50, g5ragg1-g5ragg50, g5scom1-g5scom50.

\*/

cd "D:\psa\_e2\Chapter8\data"

capture log close

set more off

program g4adq

forvalues i=1/50 {

use `1'`i', replace

drop if `2'==.

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

sum `2'

tab `3'

}

end

program g4hi

forvalues i=1/50 {

use `1'`i', replace

drop if `2'==.

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

sum `2'

tab `3'

}

end

program g5adq

forvalues i=1/50 {

use `1'`i', replace

drop if `2'==.

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

sum `2'

tab `3'

}

end

program g5hi

forvalues i=1/50 {

use `1'`i', replace

drop if `2'==.

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

sum `2'

tab `3'

}

end

g4adq g4aca icsacach g4adq

g4adq g4agg icsaggch g4adq

g4adq g4emrg cceregch g4adq

g4adq g4int icsintch g4adq

g4adq g4pros ccprosch g4adq

g4adq g4ragg raggrch g4adq

g4adq g4scom ccscomch g4adq

g4hi g4aca icsacach g4hi

g4hi g4agg icsaggch g4hi

g4hi g4emrg cceregch g4hi

g4hi g4int icsintch g4hi

g4hi g4pros ccprosch g4hi

g4hi g4ragg raggrch g4hi

g4hi g4scom ccscomch g4hi

g5adq g5aca icsacach g5adq

g5adq g5agg icsaggch g5adq

g5adq g5emrg cceregch g5adq

g5adq g5int icsintch g5adq

g5adq g5pros ccprosch g5adq

g5adq g5ragg raggrch g5adq

g5adq g5scom ccscomch g5adq

g5hi g5aca icsacach g5hi

g5hi g5agg icsaggch g5hi

g5hi g5emrg cceregch g5hi

g5hi g5int icsintch g5hi

g5hi g5pros ccprosch g5hi

g5hi g5ragg raggrch g5hi

g5hi g5scom ccscomch g5hi

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Stata Syntax to Run ***nnmatch*** for Each of 700 Files for Different Comparisons \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

//Chapter 8 Example 2

cd "D:\psa\_e2\Chapter8\data"

capture log close

set more off

log using ex6\_2b,replace

program dv\_g4aca\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch icsacach intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange dicsagg2 ///

dicsint2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4agg\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch icsaggch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2 dccpros2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4emrg\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch cceregch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4int\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch icsintch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4pros\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch ccprosch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4ragg\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch raggrch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4scom\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch ccscomch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g4aca\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch icsacach g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange dicsagg2 ///

dicsint2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g4agg\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch icsaggch g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2 dccpros2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g4emrg\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch cceregch g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g4int\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch icsintch g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g4pros\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch ccprosch g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g4ragg\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch raggrch g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g4scom\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g4adq=0

replace g4adq=1 if mcmin >= 240 & mcmin < 380

replace g4adq=. if mcmin >= 380

nnmatch ccscomch g4adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

//hi

program dv\_g4aca\_hi

forvalues i=1/50 {

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch icsacach g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange dicsagg2 ///

dicsint2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g4agg\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch icsaggch g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2 dccpros2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g4emrg\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch cceregch g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g4int\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch icsintch g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g4pros\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch ccprosch g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g4ragg\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch raggrch g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g4scom\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g4hi=0

replace g4hi=1 if mcmin >= 380

replace g4hi=. if mcmin > 0 & mcmin < 380

nnmatch ccscomch g4hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5aca\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch icsacach intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange dicsagg2 ///

dicsint2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5agg\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch icsaggch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2 dccpros2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5emrg\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch cceregch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5int\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch icsintch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5pros\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch ccprosch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5ragg\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch raggrch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5scom\_tot

forvalues i=1/50 {

//tot

use `1'`i', clear

nnmatch ccscomch intbl ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_tot\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_tot\_`1'`i'", replace

}

end

program dv\_g5aca\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch icsacach g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange dicsagg2 ///

dicsint2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g5agg\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch icsaggch g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2 dccpros2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g5emrg\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch cceregch g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g5int\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch icsintch g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g5pros\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch ccprosch g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g5ragg\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch raggrch g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

program dv\_g5scom\_adq

forvalues i=1/50 {

//adq

use `1'`i', clear

gen g5adq=0

replace g5adq=1 if mcmin >= 240 & mcmin < 380

replace g5adq=. if mcmin >= 380

nnmatch ccscomch g5adq ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_adq\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_adq\_`1'`i'", replace

}

end

//hi

program dv\_g5aca\_hi

forvalues i=1/50 {

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch icsacach g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange dicsagg2 ///

dicsint2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5agg\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch icsaggch g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2 dccpros2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5emrg\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch cceregch g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5int\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch icsintch g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dccereg2 dccscom2 dccpros2 draggr2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5pros\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch ccprosch g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsagg2 dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5ragg\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch raggrch g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program dv\_g5scom\_hi

forvalues i=1/50 {

//hi

use `1'`i', clear

gen g5hi=0

replace g5hi=1 if mcmin >= 380

replace g5hi=. if mcmin > 0 & mcmin < 380

nnmatch ccscomch g5hi ageyc fmale blck whit hisp ///

pcedu ipovl pcemft fthr tchange ///

dicsaca2 dicsint2, ///

m(4) tc(att) bias(bias) robust(4)

gen se=e(se)

gen n=e(N)

mat c=e(b)

svmat double c, name(c)

drop if c1==.

gen sample="Sample\_hi\_`1'`i'"

keep sample n se c1

save "C:\tmp\\_345\_hi\_`1'`i'", replace

}

end

program add

use "C:\tmp\\_345\_`2'\_`1'1", clear

append using "C:\tmp\\_345\_`2'\_`1'2"

append using "C:\tmp\\_345\_`2'\_`1'3"

append using "C:\tmp\\_345\_`2'\_`1'4"

append using "C:\tmp\\_345\_`2'\_`1'5"

append using "C:\tmp\\_345\_`2'\_`1'6"

append using "C:\tmp\\_345\_`2'\_`1'7"

append using "C:\tmp\\_345\_`2'\_`1'8"

append using "C:\tmp\\_345\_`2'\_`1'9"

append using "C:\tmp\\_345\_`2'\_`1'10"

append using "C:\tmp\\_345\_`2'\_`1'11"

append using "C:\tmp\\_345\_`2'\_`1'12"

append using "C:\tmp\\_345\_`2'\_`1'13"

append using "C:\tmp\\_345\_`2'\_`1'14"

append using "C:\tmp\\_345\_`2'\_`1'15"

append using "C:\tmp\\_345\_`2'\_`1'16"

append using "C:\tmp\\_345\_`2'\_`1'17"

append using "C:\tmp\\_345\_`2'\_`1'18"

append using "C:\tmp\\_345\_`2'\_`1'19"

append using "C:\tmp\\_345\_`2'\_`1'20"

append using "C:\tmp\\_345\_`2'\_`1'21"

append using "C:\tmp\\_345\_`2'\_`1'22"

append using "C:\tmp\\_345\_`2'\_`1'23"

append using "C:\tmp\\_345\_`2'\_`1'24"

append using "C:\tmp\\_345\_`2'\_`1'25"

append using "C:\tmp\\_345\_`2'\_`1'26"

append using "C:\tmp\\_345\_`2'\_`1'27"

append using "C:\tmp\\_345\_`2'\_`1'28"

append using "C:\tmp\\_345\_`2'\_`1'29"

append using "C:\tmp\\_345\_`2'\_`1'30"

append using "C:\tmp\\_345\_`2'\_`1'31"

append using "C:\tmp\\_345\_`2'\_`1'32"

append using "C:\tmp\\_345\_`2'\_`1'33"

append using "C:\tmp\\_345\_`2'\_`1'34"

append using "C:\tmp\\_345\_`2'\_`1'35"

append using "C:\tmp\\_345\_`2'\_`1'36"

append using "C:\tmp\\_345\_`2'\_`1'37"

append using "C:\tmp\\_345\_`2'\_`1'38"

append using "C:\tmp\\_345\_`2'\_`1'39"

append using "C:\tmp\\_345\_`2'\_`1'40"

append using "C:\tmp\\_345\_`2'\_`1'41"

append using "C:\tmp\\_345\_`2'\_`1'42"

append using "C:\tmp\\_345\_`2'\_`1'43"

append using "C:\tmp\\_345\_`2'\_`1'44"

append using "C:\tmp\\_345\_`2'\_`1'45"

append using "C:\tmp\\_345\_`2'\_`1'46"

append using "C:\tmp\\_345\_`2'\_`1'47"

append using "C:\tmp\\_345\_`2'\_`1'48"

append using "C:\tmp\\_345\_`2'\_`1'49"

append using "C:\tmp\\_345\_`2'\_`1'50"

save new\_grouping\_`2'\_`1', replace

list

end

dv\_g4aca\_tot g4aca

dv\_g4agg\_tot g4agg

dv\_g4emrg\_tot g4emrg

dv\_g4int\_tot g4int

dv\_g4pros\_tot g4pros

dv\_g4ragg\_tot g4ragg

dv\_g4scom\_tot g4scom

dv\_g4aca\_adq g4aca

dv\_g4agg\_adq g4agg

dv\_g4emrg\_adq g4emrg

dv\_g4int\_adq g4int

dv\_g4pros\_adq g4pros

dv\_g4ragg\_adq g4ragg

dv\_g4scom\_adq g4scom

dv\_g4aca\_hi g4aca

dv\_g4agg\_hi g4agg

dv\_g4emrg\_hi g4emrg

dv\_g4int\_hi g4int

dv\_g4pros\_hi g4pros

dv\_g4ragg\_hi g4ragg

dv\_g4scom\_hi g4scom

add g4aca tot

add g4agg tot

add g4emrg tot

add g4int tot

add g4pros tot

add g4ragg tot

add g4scom tot

add g4aca adq

add g4agg adq

add g4emrg adq

add g4int adq

add g4pros adq

add g4ragg adq

add g4scom adq

add g4aca hi

add g4agg hi

add g4emrg hi

add g4int hi

add g4pros hi

add g4ragg hi

add g4scom hi

dv\_g5aca\_tot g5aca

dv\_g5agg\_tot g5agg

dv\_g5emrg\_tot g5emrg

dv\_g5int\_tot g5int

dv\_g5pros\_tot g5pros

dv\_g5ragg\_tot g5ragg

dv\_g5scom\_tot g5scom

dv\_g5aca\_adq g5aca

dv\_g5agg\_adq g5agg

dv\_g5emrg\_adq g5emrg

dv\_g5int\_adq g5int

dv\_g5pros\_adq g5pros

dv\_g5ragg\_adq g5ragg

dv\_g5scom\_adq g5scom

dv\_g5aca\_hi g5aca

dv\_g5agg\_hi g5agg

dv\_g5emrg\_hi g5emrg

dv\_g5int\_hi g5int

dv\_g5pros\_hi g5pros

dv\_g5ragg\_hi g5ragg

dv\_g5scom\_hi g5scom

add g5aca tot

add g5agg tot

add g5emrg tot

add g5int tot

add g5pros tot

add g5ragg tot

add g5scom tot

add g5aca adq

add g5agg adq

add g5emrg adq

add g5int adq

add g5pros adq

add g5ragg adq

add g5scom adq

add g5aca hi

add g5agg hi

add g5emrg hi

add g5int hi

add g5pros hi

add g5ragg hi

add g5scom hi

log close

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Stata Syntax to Create a Combined Result for Each Outcome Using the Rubin’s Rule for Aggregating Results from Multiple Imputation

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

//Chapter 8 Section 8.4.2 (for Table 8.8)

cd "D:\psa\_e2\Chapter8\data"

capture log close

set more off

log using ex6\_2c, replace

program post\_match\_agg345

use `1', replace

quietly:sum c1

gen Q\_=r(mean)

quietly:sum n

gen obs=r(mean)

gen var=se\*se

quietly:sum var

gen U\_=r(mean)

gen qj\_q\_2=(c1-Q\_)^2

quietly:sum qj\_q\_2

gen B=(1/(50-1))\*r(sum)

gen T=U\_+(1+(1/50))\*B

gen overall\_se=sqrt(T)

gen t=Q\_/overall\_se

gen xx=[1+(50\*U\_)/((50+1)\*B)]^2

gen df=(50-1)\*xx

gen t\_pvalue=ttail(df,abs(t))\*2

gen h1="Coefficient = "

gen h2="; p-value = "

gen h3="; Average Obs = "

gen h4="; df ="

display h1 Q\_ h2 t\_pvalue h3 obs h4 df

end

post\_match\_agg345 new\_grouping\_tot\_g4aca

post\_match\_agg345 new\_grouping\_tot\_g4agg

post\_match\_agg345 new\_grouping\_tot\_g4emrg

post\_match\_agg345 new\_grouping\_tot\_g4int

post\_match\_agg345 new\_grouping\_tot\_g4pros

post\_match\_agg345 new\_grouping\_tot\_g4ragg

post\_match\_agg345 new\_grouping\_tot\_g4scom

post\_match\_agg345 new\_grouping\_adq\_g4aca

post\_match\_agg345 new\_grouping\_adq\_g4agg

post\_match\_agg345 new\_grouping\_adq\_g4emrg

post\_match\_agg345 new\_grouping\_adq\_g4int

post\_match\_agg345 new\_grouping\_adq\_g4pros

post\_match\_agg345 new\_grouping\_adq\_g4ragg

post\_match\_agg345 new\_grouping\_adq\_g4scom

post\_match\_agg345 new\_grouping\_hi\_g4aca

post\_match\_agg345 new\_grouping\_hi\_g4agg

post\_match\_agg345 new\_grouping\_hi\_g4emrg

post\_match\_agg345 new\_grouping\_hi\_g4int

post\_match\_agg345 new\_grouping\_hi\_g4pros

post\_match\_agg345 new\_grouping\_hi\_g4ragg

post\_match\_agg345 new\_grouping\_hi\_g4scom

post\_match\_agg345 new\_grouping\_tot\_g5aca

post\_match\_agg345 new\_grouping\_tot\_g5agg

post\_match\_agg345 new\_grouping\_tot\_g5emrg

post\_match\_agg345 new\_grouping\_tot\_g5int

post\_match\_agg345 new\_grouping\_tot\_g5pros

post\_match\_agg345 new\_grouping\_tot\_g5ragg

post\_match\_agg345 new\_grouping\_tot\_g5scom

post\_match\_agg345 new\_grouping\_adq\_g5aca

post\_match\_agg345 new\_grouping\_adq\_g5agg

post\_match\_agg345 new\_grouping\_adq\_g5emrg

post\_match\_agg345 new\_grouping\_adq\_g5int

post\_match\_agg345 new\_grouping\_adq\_g5pros

post\_match\_agg345 new\_grouping\_adq\_g5ragg

post\_match\_agg345 new\_grouping\_adq\_g5scom

post\_match\_agg345 new\_grouping\_hi\_g5aca

post\_match\_agg345 new\_grouping\_hi\_g5agg

post\_match\_agg345 new\_grouping\_hi\_g5emrg

post\_match\_agg345 new\_grouping\_hi\_g5int

post\_match\_agg345 new\_grouping\_hi\_g5pros

post\_match\_agg345 new\_grouping\_hi\_g5ragg

post\_match\_agg345 new\_grouping\_hi\_g5scom

log close

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_