Stata Syntax for Section 5.8.1, Chapter 5

Section 5.8.1

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//Chapter 5 Illustrating Example 1 (Section 5.8.1)

cd "D:\psa\_e2\Chapter5\data"

cap mkdir "C:\tmp" /\* create a new folder to store temporary data \*/

set more off

log using “c:\tmp\r5”, replace

clear

set memory 400m

use chpt5\_1\_original,replace

//logistic 1

logistic aodserv married high bahigh poverty2 poverty3 ///

poverty4 poverty5 employ open black hispanic natam chdage1 chdage2 ///

chdage3 cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A ///

sexual provide supervis other, coef

predict p1

//logistic 2

logistic aodserv married high bahigh poverty2 poverty3 ///

poverty4 poverty5 employ open black hispanic natam chdage1 chdage2 ///

chdage3 cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A ///

sexual provide supervis other ra cidi cgneed cwwrep, coef

predict p2

//logistic 3

logistic aodserv married high bahigh poverty2 poverty3 ///

poverty4 poverty5 employ open black hispanic natam chdage1 chdage2 ///

chdage3 cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A ///

sexual provide supervis other ra cidi cgneed, coef

predict p3

save chpt5\_1, replace

//Bivariate test before matching

tab married aodserv if p1 !=., chi2 row

tab educ aodserv if p1 !=., chi2 row

tab pov aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab race aodserv if p1 !=., chi2 row

tab chdage aodserv if p1 !=., chi2 row

tab cgage aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab maltx aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//PSM based on Logistic regression 1

//Scheme 1 - Nearest neighbor within caliper .25\*SD

clear

set memory 400m

use chpt5\_1,replace

drop if p1==.

gen logit1=log((1-p1)/p1)

sum logit1

display .25\* 1.242513

generate x=uniform()

sort x

psmatch2 aodserv, pscore(logit1) caliper(.31062825) noreplacement descending

sort \_id

g match=id[\_n1]

g treat=id if \_nn==1

drop if treat==.

sum treat

keep treat match

save scheme1, replace

//Scheme 2 - Nearest neighbor within caliper .1

clear

set memory 400m

use chpt5\_1,replace

drop if p1==.

gen logit1=log((1-p1)/p1)

sum logit1

generate x=uniform()

sort x

psmatch2 aodserv, pscore(logit1) caliper(.1) noreplacement descending

sort \_id

g match=id[\_n1]

g treat=id if \_nn==1

drop if treat==.

sum treat

keep treat match

save scheme2, replace

//Scheme 3 - Mahalanobis 1 same covariates as logistic 1

clear

set memory 400m

use chpt5\_1,replace

set seed 1000

generate x=uniform()

sort x

// Mahalanobis without propensity score

psmatch2 aodserv, mahal(married high bahigh poverty2 poverty3 ///

poverty4 poverty5 employ open black hispanic natam chdage1 chdage2 ///

chdage3 cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A ///

sexual provide supervis other)

sort \_id

generate match=id[\_n1]

generate treat=id if \_n1 !=.

sum treat

keep treat match

sort match

by match: g mj=\_n

drop if treat==.

drop if mj != 1

sum match

keep treat match

save scheme3, replace

//Scheme 4 - Mahalanobis 2 same covariates as logistic 1 with pscore added

clear

set memory 400m

use chpt5\_1,replace

drop if p1==.

gen logit1=log((1-p1)/p1)

sum logit1

set seed 1000

generate x=uniform()

sort x

// Mahalanobis with propensity score

psmatch2 aodserv, mahal(married high bahigh poverty2 poverty3 poverty4 ///

poverty5 employ open black hispanic natam chdage1 chdage2 chdage3 ///

cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A sexual provide ///

supervis other logit1)

sort \_id

generate match=id[\_n1]

generate treat=id if \_n1 !=.

sort match

by match: g mj=\_n

drop if treat==.

drop if mj != 1

sum match

keep treat match

save scheme4, replace

//PSM based on Logistic regression 2

//Scheme 5 - Nearest neighbor within caliper .25\*SD

clear

set memory 400m

use chpt5\_1,replace

drop if p2==.

gen logit2=log((1-p2)/p2)

sum logit2

display .25\*1.95907

generate x=uniform()

sort x

psmatch2 aodserv, pscore(logit2) caliper(.4897675) noreplacement descending

sort \_id

g match=id[\_n1]

g treat=id if \_nn==1

drop if treat==.

sum treat

keep treat match

save scheme5, replace

//Scheme 6 - Nearest neighbor within caliper .1

clear

set memory 400m

use chpt5\_1,replace

drop if p2==.

gen logit2=log((1-p2)/p2)

sum logit2

generate x=uniform()

sort x

psmatch2 aodserv, pscore(logit2) caliper(.1) noreplacement descending

sort \_id

g match=id[\_n1]

g treat=id if \_nn==1

drop if treat==.

sum treat

keep treat match

save scheme6, replace

//Scheme 7 - Mahalanobis 1 same covariates as logistic 2

clear

set memory 400m

use chpt5\_1,replace

set seed 1000

generate x=uniform()

sort x

// Mahalanobis without propensity score

psmatch2 aodserv, mahal(married high bahigh poverty2 poverty3 ///

poverty4 poverty5 employ open black hispanic natam chdage1 chdage2 ///

chdage3 cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A ///

sexual provide supervis other ra cidi cgneed cwwrep)

sort \_id

generate match=id[\_n1]

generate treat=id if \_n1 !=.

sum treat

keep treat match

sort match

by match: g mj=\_n

drop if treat==.

drop if mj != 1

sum match

keep treat match

save scheme7, replace

//Scheme 8 - Mahalanobis 2 same covariates as logistic 2 with pscore added

clear

set memory 400m

use chpt5\_1,replace

drop if p2==.

gen logit2=log((1-p2)/p2)

sum logit2

set seed 1000

generate x=uniform()

sort x

// Mahalanobis with propensity score

psmatch2 aodserv, mahal(married high bahigh poverty2 poverty3 poverty4 ///

poverty5 employ open black hispanic natam chdage1 chdage2 chdage3 ///

cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A sexual provide ///

supervis other ra cidi cgneed cwwrep logit2)

sort \_id

generate match=id[\_n1]

generate treat=id if \_n1 !=.

sort match

by match: g mj=\_n

drop if treat==.

drop if mj != 1

sum match

keep treat match

save scheme8, replace

//PSM based on Logistic regression 3

//Scheme 9 - Nearest neighbor within caliper .25\*SD

clear

set memory 400m

use chpt5\_1,replace

drop if p3==.

gen logit3=log((1-p3)/p3)

sum logit3

display .25\* 1.60411

generate x=uniform()

sort x

psmatch2 aodserv, pscore(logit3) caliper(.4010275) noreplacement descending

sort \_id

g match=id[\_n1]

g treat=id if \_nn==1

drop if treat==.

sum treat

keep treat match

save scheme9, replace

//Scheme 10 - Nearest neighbor within caliper .1

clear

set memory 400m

use chpt5\_1,replace

drop if p3==.

gen logit3=log((1-p3)/p3)

sum logit3

generate x=uniform()

sort x

psmatch2 aodserv, pscore(logit3) caliper(.1) noreplacement descending

sort \_id

g match=id[\_n1]

g treat=id if \_nn==1

drop if treat==.

sum treat

keep treat match

save scheme10, replace

//Scheme 11 - Mahalanobis 1 same covariates as logistic 3

clear

set memory 400m

use chpt5\_1,replace

set seed 1000

generate x=uniform()

sort x

// Mahalanobis without propensity score

psmatch2 aodserv, mahal(married high bahigh poverty2 poverty3 ///

poverty4 poverty5 employ open black hispanic natam chdage1 chdage2 ///

chdage3 cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A ///

sexual provide supervis other ra cidi cgneed)

sort \_id

generate match=id[\_n1]

generate treat=id if \_n1 !=.

sum treat

keep treat match

sort match

by match: g mj=\_n

drop if treat==.

drop if mj != 1

sum match

keep treat match

save scheme11, replace

//Scheme 12 - Mahalanobis 2 same covariates as logistic 3 with pscore added

clear

set memory 400m

use chpt5\_1,replace

drop if p3==.

gen logit3=log((1-p3)/p3)

sum logit3

set seed 1000

generate x=uniform()

sort x

// Mahalanobis with propensity score

psmatch2 aodserv, mahal(married high bahigh poverty2 poverty3 poverty4 ///

poverty5 employ open black hispanic natam chdage1 chdage2 chdage3 ///

cgrage1 cgrage2 cgrage3 CRA47A mental arrest PSH17A sexual provide ///

supervis other ra cidi cgneed logit3)

sort \_id

generate match=id[\_n1]

generate treat=id if \_n1 !=.

sort match

by match: g mj=\_n

drop if treat==.

drop if mj != 1

sum match

keep treat match

save scheme12, replace

//Bivariate test after matching

//All

use chpt5\_1, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme1

clear

use scheme1, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme1, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post1, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

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tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme2

clear

use scheme2, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme2, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post2, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

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tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme3

clear

use scheme3, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme3, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post3, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

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tab other aodserv if p1 !=., chi2 row

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tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme4

clear

use scheme4, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme4, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post4, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

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tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme5

clear

use scheme5, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme5, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post5, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

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tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme6

clear

use scheme6, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme6, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post6, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

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tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

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tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme7

clear

use scheme7, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme7, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post7, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

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tab poverty5 aodserv if p1 !=., chi2 row

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tab open aodserv if p1 !=., chi2 row

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tab chdage3 aodserv if p1 !=., chi2 row

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tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

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tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme8

clear

use scheme8, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme8, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post8, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme9

clear

use scheme9, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme9, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post9, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme10

clear

use scheme10, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme10, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post10, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme11

clear

use scheme11, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme11, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post11, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//scheme12

clear

use scheme12, replace

keep treat

gen tx=1

rename treat id

save "C:\tmp\t1.dta",replace

use scheme12, replace

keep match

gen tx=0

rename match id

append using "C:\tmp\t1.dta"

sort id

save "C:\tmp\t2.dta",replace

clear

use chpt5\_1, replace

sort id

merge id using "C:\tmp\t2.dta"

tab tx

drop if tx==.

save post12, replace

tab married aodserv if p1 !=., chi2 row

tab high aodserv if p1 !=., chi2 row

tab bahigh aodserv if p1 !=., chi2 row

tab poverty2 aodserv if p1 !=., chi2 row

tab poverty3 aodserv if p1 !=., chi2 row

tab poverty4 aodserv if p1 !=., chi2 row

tab poverty5 aodserv if p1 !=., chi2 row

tab employ aodserv if p1 !=., chi2 row

tab open aodserv if p1 !=., chi2 row

tab black aodserv if p1 !=., chi2 row

tab hispanic aodserv if p1 !=., chi2 row

tab natam aodserv if p1 !=., chi2 row

tab chdage1 aodserv if p1 !=., chi2 row

tab chdage2 aodserv if p1 !=., chi2 row

tab chdage3 aodserv if p1 !=., chi2 row

tab cgrage1 aodserv if p1 !=., chi2 row

tab cgrage2 aodserv if p1 !=., chi2 row

tab cgrage3 aodserv if p1 !=., chi2 row

tab CRA47A aodserv if p1 !=., chi2 row

tab mental aodserv if p1 !=., chi2 row

tab arrest aodserv if p1 !=., chi2 row

tab PSH17A aodserv if p1 !=., chi2 row

tab sexual aodserv if p1 !=., chi2 row

tab provide aodserv if p1 !=., chi2 row

tab supervis aodserv if p1 !=., chi2 row

tab other aodserv if p1 !=., chi2 row

tab ra aodserv if p1 !=., chi2 row

tab cidi aodserv if p1 !=., chi2 row

tab cgneed aodserv if p1 !=., chi2 row

tab cwwrep aodserv if p1 !=., chi2 row

//Kaplan-Meier and significance test of

// difference on survivor function

//All

use svl\_all, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

sts graph, by (aodserv) saving(s\_all.gph, replace) title ("Original Sample N=2,723")

//Scheme 1

use svl\_1, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 2

use svl\_2, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 3

use svl\_3, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 4

use svl\_4, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(10)

sts test aodserv, wilcoxon

//Scheme 5

use svl\_5, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 6

use svl\_6, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 7

use svl\_7, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 8

use svl\_8, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 9

use svl\_9, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 10

use svl\_10, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts test aodserv, wilcoxon

//Scheme 11

use svl\_11, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(10)

sts test aodserv, wilcoxon

//Scheme 12

use svl\_12, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(10)

sts test aodserv, wilcoxon

//Survivor curve for Scheme 9

use svl\_9, replace

stset durm, failure(rrpt==1)

stci, by (aodserv) p(15)

sts graph, by (aodserv) saving(s\_9.gph, replace) title ("Sample Based on Matching Scheme 9 N=482")

log close

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