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\*

\*PROGRAM: C:\MEPS\STATA\PROG\EXERCISE2.do

\*

\*PURPOSE: THIS PROGRAM GENERATES SELECTED ESTIMATES FOR A 2014 VERSION OF THE

\* MEPS STATISTICS BRIEF # 275: "Trends in Antipsychotics Purchases and Expenses for the U.S. Civilian

\* Noninstitutionalized Population, 1997 and 2007"

\*

\* (1) FIGURE 1: TOTAL EXPENSE FOR ANTIPSYCHOTICS

\*

\* (2) FIGURE 2: TOTAL NUMBER OF PURCHASES OF ANTIPSYCHOTICS

\*

\* (3) FIGURE 3: TOTAL NUMBER OF PERSONS PURCHASING ONE OR MORE ANTIPSYCHOTICS

\*

\* (4) FIGURE 4: AVERAGE TOTAL, OUT OF POCKET, AND THIRD PARTY PAYER EXPENSE

\* FOR ANTIPSYCHOTICS PER PERSON WITH AN ANTIPSYCHOTIC MEDICINE PURCHASE

\*

\*INPUT FILES: (1) C:\MEPS\STATA\DATA\H171.dta (2014 FULL-YEAR CONSOLIDATED PUF)

\* (2) C:\MEPS\STATA\DATA\H168A.dta (2014 PRESCRIBED MEDICINES PUF)

\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

clear

set more off

capture log close

/\*log using c:\meps\stata\prog\exercise2.log, replace

cd c:\meps\stata\data\*/

log using \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise2.log, replace

cd \\files.s-3.com\HPDA\AHRQ\Fang\bj001

// 1) identify antipsychotic drugs using therapeutic classification (tc) codes

use dupersid rxrecidx linkidx tc1 tc1s1 rxxp14x rxsf14x if tc1==242 & tc1s1==251 using h168a

list dupersid rxrecidx linkidx rxxp14x rxsf14x in 1/30, table

tab1 tc1 tc1s1

// 2) sum data to person-level

sort dupersid

by dupersid: egen tot=sum(rxxp14x)

by dupersid: egen oop=sum(rxsf14x)

by dupersid: gen n\_purchase=\_n

list dupersid n\_purchase tot oop rxxp14x rxsf14x in 1/20

by dupersid: keep if \_n==\_N

gen third\_payer = tot - oop

// 3) merge the person-level expenditures to the fy puf

tempfile perdrug

save "`perdrug'"

use dupersid varstr varpsu perwt14f using h171

sort dupersid

merge 1:m dupersid using "`perdrug'", keep(master matches)

tabmiss n\_purchase tot oop third\_payer

gen sub=(\_merge==3)

tab sub

recode n\_purchase tot oop third\_payer (missing=0)

sum n\_purchase tot oop third\_payer if sub==0

keep if perwt14f>0

// 4) calculate estimates on expenditures and use

svyset [pweight= perwt14f], strata( varstr) psu(varpsu) vce(linearized) singleunit(missing)

svy, subpop(sub): mean n\_purchase tot oop third\_payer, cformat(%8.3g)

svy, subpop(sub): total n\_purchase tot oop third\_payer

estimates table, b(%13.0f) se(%11.0f)

log close

exit, clear

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name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise2.log

log type: text

opened on: 22 Feb 2017, 14:25:24

. cd \\files.s-3.com\HPDA\AHRQ\Fang\bj001

\\files.s-3.com\HPDA\AHRQ\Fang\bj001

.

. // 1) identify antipsychotic drugs using therapeutic classification (tc) codes

. use dupersid rxrecidx linkidx tc1 tc1s1 rxxp14x rxsf14x if tc1==242 & tc1s1==251 using h168a

. list dupersid rxrecidx linkidx rxxp14x rxsf14x in 1/30, table

+---------------------------------------------------------------+

| dupersid rxrecidx linkidx rxxp14x rxsf14x |

|---------------------------------------------------------------|

1. | 40097101 400971010931001 400971010931 116.84 12 |

2. | 40097101 400971010931002 400971010931 149.11 12 |

3. | 40097101 400971010951001 400971010951 25.21 12 |

4. | 40097101 400971010951002 400971010951 25.71 12 |

5. | 40097101 400971010961001 400971010961 4.27 4.27 |

|---------------------------------------------------------------|

6. | 40097101 400971010961002 400971010961 3 3 |

7. | 40097101 400971011101001 400971011101 149.11 12 |

8. | 40097101 400971011101002 400971011101 166.58 12 |

9. | 40097101 400971011101003 400971011101 141.4 12 |

10. | 40097101 400971011101004 400971011101 139.76 12 |

|---------------------------------------------------------------|

11. | 40097101 400971011121001 400971011121 25.21 12 |

12. | 40097101 400971011121002 400971011121 25.21 12 |

13. | 40097101 400971011121003 400971011121 25.71 12 |

14. | 40097101 400971011121004 400971011121 25.71 12 |

15. | 40097101 400971011131001 400971011131 2.84 2.84 |

|---------------------------------------------------------------|

16. | 40097101 400971011131002 400971011131 3.76 3.76 |

17. | 40097101 400971011131003 400971011131 3.76 3.76 |

18. | 40097101 400971011131004 400971011131 3.76 3.76 |

19. | 40097101 400971011181001 400971011181 129.09 12 |

20. | 40097101 400971011181002 400971011181 127.34 12 |

|---------------------------------------------------------------|

21. | 40097101 400971011181003 400971011181 127.5 12 |

22. | 40097101 400971011201001 400971011201 25.21 12 |

23. | 40097101 400971011201002 400971011201 25.21 12 |

24. | 40097101 400971011201003 400971011201 25.71 12 |

25. | 40097101 400971011211001 400971011211 3.75 3.75 |

|---------------------------------------------------------------|

26. | 40097101 400971011211002 400971011211 3.75 3.75 |

27. | 40097101 400971011211003 400971011211 3.75 3.75 |

28. | 40209101 402091010121001 402091010121 998.99 0 |

29. | 40224103 402241030181001 402241030181 10 10 |

30. | 40224103 402241030181002 402241030181 10 10 |

+---------------------------------------------------------------+

. tab1 tc1 tc1s1

-> tabulation of tc1

MULTUM |

THERAPEUTIC |

CLASS #1 | Freq. Percent Cum.

------------+-----------------------------------

242 | 3,547 100.00 100.00

------------+-----------------------------------

Total | 3,547 100.00

-> tabulation of tc1s1

MULTUM |

THERAPEUTIC |

SUB-CLASS |

#1 FOR TC1 | Freq. Percent Cum.

------------+-----------------------------------

251 | 3,547 100.00 100.00

------------+-----------------------------------

Total | 3,547 100.00

.

. // 2) sum data to person-level

. sort dupersid

. by dupersid: egen tot=sum(rxxp14x)

. by dupersid: egen oop=sum(rxsf14x)

. by dupersid: gen n\_purchase=\_n

.

. list dupersid n\_purchase tot oop rxxp14x rxsf14x in 1/20

+------------------------------------------------------------+

| dupersid n\_purc~e tot oop rxxp14x rxsf14x |

|------------------------------------------------------------|

1. | 40097101 1 1508.26 248.64 116.84 12 |

2. | 40097101 2 1508.26 248.64 149.11 12 |

3. | 40097101 3 1508.26 248.64 25.21 12 |

4. | 40097101 4 1508.26 248.64 25.71 12 |

5. | 40097101 5 1508.26 248.64 4.27 4.27 |

|------------------------------------------------------------|

6. | 40097101 6 1508.26 248.64 3 3 |

7. | 40097101 7 1508.26 248.64 149.11 12 |

8. | 40097101 8 1508.26 248.64 166.58 12 |

9. | 40097101 9 1508.26 248.64 141.4 12 |

10. | 40097101 10 1508.26 248.64 139.76 12 |

|------------------------------------------------------------|

11. | 40097101 11 1508.26 248.64 25.21 12 |

12. | 40097101 12 1508.26 248.64 25.21 12 |

13. | 40097101 13 1508.26 248.64 25.71 12 |

14. | 40097101 14 1508.26 248.64 25.71 12 |

15. | 40097101 15 1508.26 248.64 2.84 2.84 |

|------------------------------------------------------------|

16. | 40097101 16 1508.26 248.64 3.76 3.76 |

17. | 40097101 17 1508.26 248.64 3.76 3.76 |

18. | 40097101 18 1508.26 248.64 3.76 3.76 |

19. | 40097101 19 1508.26 248.64 129.09 12 |

20. | 40097101 20 1508.26 248.64 127.34 12 |

+------------------------------------------------------------+

.

. by dupersid: keep if \_n==\_N

(3,093 observations deleted)

. gen third\_payer = tot - oop

.

. // 3) merge the person-level expenditures to the fy puf

. tempfile perdrug

. save "`perdrug'"

file C:\Users\ggrodsky\AppData\Local\Temp\ST\_04000001.tmp saved

.

. use dupersid varstr varpsu perwt14f using h171

. sort dupersid

.

. merge 1:m dupersid using "`perdrug'", keep(master matches)

Result # of obs.

-----------------------------------------

not matched 34,421

from master 34,421 (\_merge==1)

from using 0 (\_merge==2)

matched 454 (\_merge==3)

-----------------------------------------

. tabmiss n\_purchase tot oop third\_payer

Variable | Obs Missings Feq.Missings NonMiss Feq.NonMiss

-------------+---------------------------------------------------------------

n\_purchase | 34875 34421 98.7 454 1.302

tot | 34875 34421 98.7 454 1.302

oop | 34875 34421 98.7 454 1.302

third\_payer | 34875 34421 98.7 454 1.302

.

. gen sub=(\_merge==3)

. tab sub

sub | Freq. Percent Cum.

------------+-----------------------------------

0 | 34,421 98.70 98.70

1 | 454 1.30 100.00

------------+-----------------------------------

Total | 34,875 100.00

.

. recode n\_purchase tot oop third\_payer (missing=0)

(n\_purchase: 34421 changes made)

(tot: 34421 changes made)

(oop: 34421 changes made)

(third\_payer: 34421 changes made)

. sum n\_purchase tot oop third\_payer if sub==0

Variable | Obs Mean Std. Dev. Min Max

-------------+---------------------------------------------------------

n\_purchase | 34,421 0 0 0 0

tot | 34,421 0 0 0 0

oop | 34,421 0 0 0 0

third\_payer | 34,421 0 0 0 0

.

. keep if perwt14f>0

(1,713 observations deleted)

. // 4) calculate estimates on expenditures and use

. svyset [pweight= perwt14f], strata( varstr) psu(varpsu) vce(linearized) singleunit(missing)

pweight: perwt14f

VCE: linearized

Single unit: missing

Strata 1: varstr

SU 1: varpsu

FPC 1: <zero>

.

. svy, subpop(sub): mean n\_purchase tot oop third\_payer, cformat(%8.3g)

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 140 Number of obs = 29,027

Number of PSUs = 310 Population size = 281,209,796

Subpop. no. obs = 445

Subpop. size = 4,478,819.78

Design df = 170

--------------------------------------------------------------

| Linearized

| Mean Std. Err. [95% Conf. Interval]

-------------+------------------------------------------------

n\_purchase | 7.75 .366 7.02 8.47

tot | 2656 203 2256 3056

oop | 203 70.9 63 343

third\_payer | 2453 207 2044 2862

--------------------------------------------------------------

Note: 25 strata omitted because they contain no subpopulation

members.

. svy, subpop(sub): total n\_purchase tot oop third\_payer

(running total on estimation sample)

Survey: Total estimation

Number of strata = 140 Number of obs = 29,027

Number of PSUs = 310 Population size = 281,209,796

Subpop. no. obs = 445

Subpop. size = 4,478,819.78

Design df = 170

--------------------------------------------------------------

| Linearized

| Total Std. Err. [95% Conf. Interval]

-------------+------------------------------------------------

n\_purchase | 3.47e+07 2737619 2.93e+07 4.01e+07

tot | 1.19e+10 1.16e+09 9.61e+09 1.42e+10

oop | 9.09e+08 3.10e+08 2.97e+08 1.52e+09

third\_payer | 1.10e+10 1.18e+09 8.66e+09 1.33e+10

--------------------------------------------------------------

Note: 25 strata omitted because they contain no subpopulation

members.

. estimates table, b(%13.0f) se(%11.0f)

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Variable | active

-------------+----------------

n\_purchase | 34695151

| 2737619

tot | 11895377973

| 1156964816

oop | 909418090

| 310456103

third\_payer | 10985959902

| 1180157604

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legend: b/se

.

. log close

name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise2.log

log type: text

closed on: 22 Feb 2017, 14:27:46

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