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\*

\*PROGRAM: C:\MEPS\STATA\PROG\EXERCISE4.do

\*

\*DESCRIPTION: THIS PROGRAM ILLUSTRATES HOW TO IDENTIFY PERSONS WITH A CONDITION AND

\* CALCULATE ESTIMATES ON USE AND EXPENDITURES FOR PERSONS WITH THE CONDITION

\*

\* THE CONDITION USED IN THIS EXERCISE IS DIABETES (CCS CODE=049 OR 050)

\*

\*DEFINITION OF 61 CONDITIONS BASED ON THE CCS CODE

\*

\* 1 Infectious diseases : CCS CODE = 1-9

\* 2 Cancer : CCS CODE = 11-45

\* 3 Non-malignant neoplasm : CCS CODE = 46, 47

\* 4 Thyroid disease : CCS CODE = 48

\* 5 Diabetes mellitus : CCS CODE = 49,50

\* 6 Other endocrine, nutritional & immune disorder : CCS CODE = 51, 52, 54 - 58

\* 7 Hyperlipidemia : CCS CODE = 53

\* 8 Anemia and other deficiencies : CCS CODE = 59

\* 9 Hemorrhagic, coagulation, and disorders of White Blood cells : CCS CODE = 60-64

\* 10 Mental disorders : CCS CODE = 650-670

\* 11 CNS infection : CCS CODE = 76-78

\* 12 Hereditary, degenerative and other nervous system disorders : CCS CODE = 79-81

\* 13 Paralysis : CCS CODE = 82

\* 14 Headache : CCS CODE = 84

\* 15 Epilepsy and convulsions : CCS CODE = 83

\* 16 Coma, brain damage : CCS CODE = 85

\* 17 Cataract : CCS CODE = 86

\* 18 Glaucoma : CCS CODE = 88

\* 19 Other eye disorders : CCS CODE = 87, 89-91

\* 20 Otitis media : CCS CODE = 92

\* 21 Other CNS disorders : CCS CODE = 93-95

\* 22 Hypertension : CCS CODE = 98,99

\* 23 Heart disease : CCS CODE = 96, 97, 100-108

\* 24 Cerebrovascular disease : CCS CODE = 109-113

\* 25 Other circulatory conditions arteries, veins, and lymphatics : CCS CODE = 114 -121

\* 26 Pneumonia : CCS CODE = 122

\* 27 Influenza : CCS CODE = 123

\* 28 Tonsillitis : CCS CODE = 124

\* 29 Acute Bronchitis and URI : CCS CODE = 125 , 126

\* 30 COPD, asthma : CCS CODE = 127-134

\* 31 Intestinal infection : CCS CODE = 135

\* 32 Disorders of teeth and jaws : CCS CODE = 136

\* 33 Disorders of mouth and esophagus : CCS CODE = 137

\* 34 Disorders of the upper GI : CCS CODE = 138-141

\* 35 Appendicitis : CCS CODE = 142

\* 36 Hernias : CCS CODE = 143

\* 37 Other stomach and intestinal disorders : CCS CODE = 144- 148

\* 38 Other GI : CCS CODE = 153-155

\* 39 Gallbladder, pancreatic, and liver disease : CCS CODE = 149-152

\* 40 Kidney Disease : CCS CODE = 156-158, 160, 161

\* 41 Urinary tract infections : CCS CODE = 159

\* 42 Other urinary : CCS CODE = 162,163

\* 43 Male genital disorders : CCS CODE = 164-166

\* 44 Non-malignant breast disease : CCS CODE = 167

\* 45 Female genital disorders, and contraception : CCS CODE = 168-176

\* 46 Complications of pregnancy and birth : CCS CODE = 177-195

\* 47 Normal birth/live born : CCS CODE = 196, 218

\* 48 Skin disorders : CCS CODE = 197-200

\* 49 Osteoarthritis and other non-traumatic joint disorders : CCS CODE = 201-204

\* 50 Back problems : CCS CODE = 205

\* 51 Other bone and musculoskeletal disease : CCS CODE = 206-209, 212

\* 52 Systemic lupus and connective tissues disorders : CCS CODE = 210-211

\* 53 Congenital anomalies : CCS CODE = 213-217

\* 54 Perinatal Conditions : CCS CODE = 219-224

\* 55 Trauma-related disorders : CCS CODE = 225-236, 239, 240, 244

\* 56 Complications of surgery or device : CCS CODE = 237, 238

\* 57 Poisoning by medical and non-medical substances : CCS CODE = 241 - 243

\* 58 Residual Codes : CCS CODE = 259

\* 59 Other care and screening : CCS CODE = 10, 254-258

\* 60 Symptoms : CCS CODE = 245-252

\* 61 Allergic reactions : CCS CODE = 253

\*

\*

\*INPUT FILES: 1) C:\MEPS\STATA\DATA\H170.dta (2014 CONDITION PUF DATA)

\* 2) C:\MEPS\STATA\DATA\H171.dta (2014 FY PUF DATA)

\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

clear

set more off

capture log close

/\*log using c:\meps\stata\prog\exercise4.log, replace

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

log using \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise4.log, replace

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

// 1) pull out conditions with diabetes (ccs code='049', '050') from 2014 condition puf - hc170

use dupersid cccodex using h170

keep if cccodex=="049" | cccodex=="050"

// check ccs codes for diabetic conditions

tab cccodex

// 2) identify persons who reported diabetes

keep dupersid

sort dupersid

by dupersid: keep if \_n==1

tempfile diab

save "`diab'"

use dupersid varstr varpsu perwt14f sex totexp14 totslf14 obtotv14 using h171

sort dupersid

merge 1:1 dupersid using "`diab'"

// 3) create a flag for persons with diabetes in the 2014 fy data

gen diabper=(\_merge==3)

tab diabper \_merge

// unweighted # of persons who reported diabetes, 2014

tab diabper sex

// weighted # of persons who reported diabetes, 2014

tab diabper sex [iweight=perwt14f]

tabmiss totexp14 totslf14 obtotv14

// 4) calculate estimates on use and expenditures for persons who reported diabetes

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

svy, subpop(diabper): mean totexp14 totslf14 obtotv14

svy, subpop(diabper): mean totexp14 totslf14 obtotv14, over(sex)

svy, subpop(diabper): tabulate sex, obs count percent format(%14.3gc)

log close

exit, clear

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name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise4.log

log type: text

opened on: 22 Feb 2017, 14:33:00

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

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

.

. // 1) pull out conditions with diabetes (ccs code='049', '050') from 2014 condition puf - hc170

. use dupersid cccodex using h170

.

. keep if cccodex=="049" | cccodex=="050"

(113,588 observations deleted)

. // check ccs codes for diabetic conditions

. tab cccodex

CLINICAL |

CLASSIFICAT |

ION CODE - |

EDITED | Freq. Percent Cum.

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

049 | 3,009 97.35 97.35

050 | 82 2.65 100.00

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

Total | 3,091 100.00

.

. // 2) identify persons who reported diabetes

. keep dupersid

. sort dupersid

. by dupersid: keep if \_n==1

(209 observations deleted)

.

. tempfile diab

. save "`diab'"

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

.

. use dupersid varstr varpsu perwt14f sex totexp14 totslf14 obtotv14 using h171

.

. sort dupersid

. merge 1:1 dupersid using "`diab'"

Result # of obs.

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

not matched 31,993

from master 31,993 (\_merge==1)

from using 0 (\_merge==2)

matched 2,882 (\_merge==3)

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

.

. // 3) create a flag for persons with diabetes in the 2014 fy data

. gen diabper=(\_merge==3)

. tab diabper \_merge

| \_merge

diabper | master on matched ( | Total

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

0 | 31,993 0 | 31,993

1 | 0 2,882 | 2,882

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

Total | 31,993 2,882 | 34,875

.

. // unweighted # of persons who reported diabetes, 2014

. tab diabper sex

| SEX

diabper | 1 2 | Total

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

0 | 15,387 16,606 | 31,993

1 | 1,281 1,601 | 2,882

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

Total | 16,668 18,207 | 34,875

. // weighted # of persons who reported diabetes, 2014

. tab diabper sex [iweight=perwt14f]

| SEX

diabper | 1 2 | Total

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

0 | 1.429e+08 1.487e+08 | 2.916e+08

1 |12945516.8 13875223 | 26820740

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

Total | 1.559e+08 1.626e+08 | 3.184e+08

.

. tabmiss totexp14 totslf14 obtotv14

Variable | Obs Missings Feq.Missings NonMiss Feq.NonMiss

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

totexp14 | 34875 0 0 34875 100

totslf14 | 34875 0 0 34875 100

obtotv14 | 34875 0 0 34875 100

.

. // 4) calculate estimates on use and expenditures for persons who reported diabetes

. 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(diabper): mean totexp14 totslf14 obtotv14

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 165 Number of obs = 34,875

Number of PSUs = 366 Population size = 318,440,423

Subpop. no. obs = 2,801

Subpop. size = 26,820,740.3

Design df = 201

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

| Linearized

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

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

totexp14 | 13724.59 686.396 12371.13 15078.05

totslf14 | 1181.273 50.75443 1081.193 1281.352

obtotv14 | 12.26874 .4088276 11.4626 13.07488

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

. svy, subpop(diabper): mean totexp14 totslf14 obtotv14, over(sex)

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 165 Number of obs = 34,875

Number of PSUs = 366 Population size = 318,440,423

Subpop. no. obs = 2,801

Subpop. size = 26,820,740.3

Design df = 201

1: sex = 1

2: sex = 2

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

| Linearized

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

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

totexp14 |

1 | 13862.79 1179.963 11536.1 16189.49

2 | 13595.64 851.8101 11916.01 15275.27

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

totslf14 |

1 | 1200.001 75.63031 1050.871 1349.132

2 | 1163.799 70.90124 1023.994 1303.605

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

obtotv14 |

1 | 11.44083 .6554568 10.14837 12.73328

2 | 13.04119 .5360566 11.98417 14.0982

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

.

. svy, subpop(diabper): tabulate sex, obs count percent format(%14.3gc)

(running tabulate on estimation sample)

Number of strata = 165 Number of obs = 34,875

Number of PSUs = 366 Population size = 318,440,423

Subpop. no. obs = 2,801

Subpop. size = 26,820,740.3

Design df = 201

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

SEX | count obs

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

1 | 12,945,517 1,281

2 | 13,875,223 1,601

|

Total | 26,820,740 2,882

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Key: count = weighted count

obs = number of observations

.

. log close

name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise4.log

log type: text

closed on: 22 Feb 2017, 14:34:51

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