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\*

\*PROGRAM: C:\MEPS\STATA\PROG\EXERCISE5.do

\*

\*DESCRIPTION: THIS PROGRAM ILLUSTRATES HOW TO CALCULATE EXPENDITURES FOR ALL EVENTS ASSOCIATED WITH A CONDITION

\*

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

\*

\*THE DEFINITION OF 61 CONDITIONS BASED ON 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\H171.dta (2014 FY PUF DATA)

\* 2) C:\MEPS\STATA\DATA\H170.dta (2014 CONDITION PUF DATA)

\* 3) C:\MEPS\STATA\DATA\H168A.dta (2014 PMED PUF DATA)

\* 4) C:\MEPS\STATA\DATA\H168D.dta (2014 INPATIENT VISITS PUF DATA)

\* 5) C:\MEPS\STATA\DATA\H168E.dta (2014 EROM VISITS PUF DATA)

\* 6) C:\MEPS\STATA\DATA\H168F.dta (2014 OUTPATIENT VISITS PUF DATA)

\* 7) C:\MEPS\STATA\DATA\H168G.dta (2014 OFFICE-BASED VISITS PUF DATA)

\* 8) C:\MEPS\STATA\DATA\H168H.dta (2014 HOME HEALTH PUF DATA)

\* 9) C:\MEPS\STATA\DATA\H168IF1.dta (2014 CONDITION-EVENT LINK PUF DATA)

\*

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

clear

set more off

capture log close

/\*log using c:\meps\stata\prog\exercise5.log, replace

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

log using \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise5.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 - hc162

use dupersid cccodex condidx using h170, clear

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

tab cccodex

sort condidx

save diab, replace

// 2) get event id for the diabetic conditions from condition-event link file

use condidx evntidx using h168if1, clear

sort condidx

merge m:1 condidx using diab, keep(matches)

drop \_merge

// 3) delete duplicate cases per event

by evntidx, sort: keep if \_n==1

save diab,replace

// 4) sum up pmed purchase-level data to event-level

use using h168a, clear

sort linkidx

by linkidx: egen sf=sum(rxsf14x)

by linkidx: egen mr=sum(rxmr14x)

by linkidx: egen md=sum(rxmd14x)

by linkidx: egen pv=sum(rxpv14x)

by linkidx: egen va=sum(rxva14x)

by linkidx: egen tr=sum(rxtr14x)

by linkidx: egen of=sum(rxof14x)

by linkidx: egen sl=sum(rxsl14x)

by linkidx: egen wc=sum(rxwc14x)

by linkidx: egen or=sum(rxor14x)

by linkidx: egen ou=sum(rxou14x)

by linkidx: egen ot=sum(rxot14x)

by linkidx: egen xp=sum(rxxp14x)

list linkidx rxxp14x xp rxmr14x mr in 1/20

gen evntyp="pmed"

rename linkidx evntidx

by evntidx: keep if \_n==1

keep evntidx sf mr md pv va tr of sl wc or ou ot xp evntyp

save pmed, replace

// 5) align exp variables in different events with the same names

use h168g, clear

rename ob\*14x \*

gen evntyp="ambu"

keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

save ob, replace

use h168h, clear

rename hh\*14x \*

gen evntyp="hvis"

keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

save hvis, replace

use h168e, clear

egen sf=rowtotal(erfsf14x erdsf14x)

egen mr=rowtotal(erfmr14x erdmr14x)

egen md=rowtotal(erfmd14x erdmd14x)

egen pv=rowtotal(erfpv14x erdpv14x)

egen va=rowtotal(erfva14x erdva14x)

egen tr=rowtotal(erftr14x erdtr14x)

egen of=rowtotal(erfof14x erdof14x)

egen sl=rowtotal(erfsl14x erdsl14x)

egen wc=rowtotal(erfwc14x erdwc14x)

egen or=rowtotal(erfor14x erdor14x)

egen ou=rowtotal(erfou14x erdou14x)

egen ot=rowtotal(erfot14x erdot14x)

rename erxp14x xp

gen evntyp="erom"

keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

save erom, replace

use h168d, clear

egen sf=rowtotal(ipfsf14x ipdsf14x)

egen mr=rowtotal(ipfmr14x ipdmr14x)

egen md=rowtotal(ipfmd14x ipdmd14x)

egen pv=rowtotal(ipfpv14x ipdpv14x)

egen va=rowtotal(ipfva14x ipdva14x)

egen tr=rowtotal(ipftr14x ipdtr14x)

egen of=rowtotal(ipfof14x ipdof14x)

egen sl=rowtotal(ipfsl14x ipdsl14x)

egen wc=rowtotal(ipfwc14x ipdwc14x)

egen or=rowtotal(ipfor14x ipdor14x)

egen ou=rowtotal(ipfou14x ipdou14x)

egen ot=rowtotal(ipfot14x ipdot14x)

rename ipxp14x xp

gen evntyp="ipat"

keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

save ipat, replace

use h168f, clear

egen sf=rowtotal(opfsf14x opdsf14x)

egen mr=rowtotal(opfmr14x opdmr14x)

egen md=rowtotal(opfmd14x opdmd14x)

egen pv=rowtotal(opfpv14x opdpv14x)

egen va=rowtotal(opfva14x opdva14x)

egen tr=rowtotal(opftr14x opdtr14x)

egen of=rowtotal(opfof14x opdof14x)

egen sl=rowtotal(opfsl14x opdsl14x)

egen wc=rowtotal(opfwc14x opdwc14x)

egen or=rowtotal(opfor14x opdor14x)

egen ou=rowtotal(opfou14x opdou14x)

egen ot=rowtotal(opfot14x opdot14x)

rename opxp14x xp

gen evntyp="ambu"

keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

// 6) combine all events into one dataset

append using ob erom ipat hvis pmed, generate(filenum)

keep if xp>=0

tab evntyp

// 7) subset events to those only with diabetes

sort evntidx

merge 1:m evntidx using diab, keep(matches)

// 8) calculate estimates on expenditures and use by type of service

sort dupersid evntyp

by dupersid evntyp: egen sf\_evnt=sum(sf)

by dupersid evntyp: egen mr\_evnt=sum(mr)

by dupersid evntyp: egen md\_evnt=sum(md)

by dupersid evntyp: egen pv\_evnt=sum(pv)

by dupersid evntyp: egen va\_evnt=sum(va)

by dupersid evntyp: egen tr\_evnt=sum(tr)

by dupersid evntyp: egen of\_evnt=sum(of)

by dupersid evntyp: egen sl\_evnt=sum(sl)

by dupersid evntyp: egen wc\_evnt=sum(wc)

by dupersid evntyp: egen or\_evnt=sum(or)

by dupersid evntyp: egen ou\_evnt=sum(ou)

by dupersid evntyp: egen ot\_evnt=sum(ot)

by dupersid evntyp: egen xp\_evnt=sum(xp)

by dupersid evntyp: gen n\_visits=\_N

by dupersid evntyp: keep if \_n==1

keep dupersid evntyp evntidx \*\_evnt n\_visits

save allevnt, replace

// 9) calculate estimates on expenditures and use, all types of service

sort dupersid

by dupersid: egen sf\_per=sum(sf\_evnt)

by dupersid: egen mr\_per=sum(mr\_evnt)

by dupersid: egen md\_per=sum(md\_evnt)

by dupersid: egen pv\_per=sum(pv\_evnt)

by dupersid: egen va\_per=sum(va\_evnt)

by dupersid: egen tr\_per=sum(tr\_evnt)

by dupersid: egen of\_per=sum(of\_evnt)

by dupersid: egen sl\_per=sum(sl\_evnt)

by dupersid: egen wc\_per=sum(wc\_evnt)

by dupersid: egen or\_per=sum(or\_evnt)

by dupersid: egen ou\_per=sum(ou\_evnt)

by dupersid: egen ot\_per=sum(ot\_evnt)

by dupersid: egen xp\_per=sum(xp\_evnt)

by dupersid: keep if \_n==1

keep dupersid \*\_per

save allper, replace

use dupersid varpsu varstr perwt14f using h171, clear

sort dupersid

merge 1:m dupersid using allper, generate(merge\_per)

foreach var in sf\_per mr\_per md\_per pv\_per va\_per tr\_per of\_per sl\_per wc\_per or\_per ou\_per ot\_per xp\_per {

recode `var' (missing=0)

tab `var' if merge\_per==1

}

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

svy, subpop(if merge\_per==3): mean sf\_per mr\_per md\_per pv\_per va\_per tr\_per of\_per sl\_per wc\_per or\_per ou\_per ot\_per xp\_per

use dupersid varpsu varstr perwt14f using h171, clear

sort dupersid

merge 1:m dupersid using allevnt, generate(merge\_evnt)

foreach var in n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt {

recode `var' (missing=0)

tab `var' if merge\_evnt==1

}

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

svy, subpop(if merge\_evnt==3 & evntyp=="ambu"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

svy, subpop(if merge\_evnt==3 & evntyp=="erom"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

svy, subpop(if merge\_evnt==3 & evntyp=="hvis"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

svy, subpop(if merge\_evnt==3 & evntyp=="ipat"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

svy, subpop(if merge\_evnt==3 & evntyp=="pmed"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

log close

exit, clear

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

name: <unnamed>

log: \\files.s-3.com\HPDA\AHRQ\Fang\bj001\exercise5.log

log type: text

opened on: 22 Feb 2017, 14:43:26

. 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 - hc162

. use dupersid cccodex condidx using h170, clear

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

(113,588 observations deleted)

. 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

. sort condidx

. save diab, replace

file diab.dta saved

.

. // 2) get event id for the diabetic conditions from condition-event link file

. use condidx evntidx using h168if1, clear

. sort condidx

. merge m:1 condidx using diab, keep(matches)

Result # of obs.

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

not matched 0

matched 20,800 (\_merge==3)

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

. drop \_merge

.

. // 3) delete duplicate cases per event

. by evntidx, sort: keep if \_n==1

(130 observations deleted)

. save diab,replace

file diab.dta saved

.

. // 4) sum up pmed purchase-level data to event-level

. use using h168a, clear

. sort linkidx

. by linkidx: egen sf=sum(rxsf14x)

. by linkidx: egen mr=sum(rxmr14x)

. by linkidx: egen md=sum(rxmd14x)

. by linkidx: egen pv=sum(rxpv14x)

. by linkidx: egen va=sum(rxva14x)

. by linkidx: egen tr=sum(rxtr14x)

. by linkidx: egen of=sum(rxof14x)

. by linkidx: egen sl=sum(rxsl14x)

. by linkidx: egen wc=sum(rxwc14x)

. by linkidx: egen or=sum(rxor14x)

. by linkidx: egen ou=sum(rxou14x)

. by linkidx: egen ot=sum(rxot14x)

. by linkidx: egen xp=sum(rxxp14x)

. list linkidx rxxp14x xp rxmr14x mr in 1/20

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

| linkidx rxxp14x xp rxmr14x mr |

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

1. | 400011010161 219.76 219.76 0 0 |

2. | 400011010171 40 40 0 0 |

3. | 400011010181 114.46 114.46 0 0 |

4. | 400011010191 219.76 219.76 0 0 |

5. | 400011010201 40.29 40.29 0 0 |

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

6. | 400011020121 56.78 56.78 0 0 |

7. | 400011020131 4 4 0 0 |

8. | 400011020141 3.86 3.86 0 0 |

9. | 400011020151 56.78 56.78 0 0 |

10. | 400011020161 3.86 3.86 0 0 |

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

11. | 400011020171 39.47 39.47 0 0 |

12. | 400011020181 269.99 269.99 0 0 |

13. | 400021010091 2.49 2.49 0 0 |

14. | 400041020081 4 12 0 0 |

15. | 400041020081 4 12 0 0 |

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

16. | 400041020081 4 12 0 0 |

17. | 400041030051 13.25 79.5 0 0 |

18. | 400041030051 13.25 79.5 0 0 |

19. | 400041030051 13.25 79.5 0 0 |

20. | 400041030051 13.25 79.5 0 0 |

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

. gen evntyp="pmed"

. rename linkidx evntidx

. by evntidx: keep if \_n==1

(183,690 observations deleted)

. keep evntidx sf mr md pv va tr of sl wc or ou ot xp evntyp

. save pmed, replace

(note: file pmed.dta not found)

file pmed.dta saved

.

. // 5) align exp variables in different events with the same names

. use h168g, clear

. rename ob\*14x \*

. gen evntyp="ambu"

. keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

. save ob, replace

(note: file ob.dta not found)

file ob.dta saved

.

.

. use h168h, clear

. rename hh\*14x \*

. gen evntyp="hvis"

. keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

. save hvis, replace

(note: file hvis.dta not found)

file hvis.dta saved

.

. use h168e, clear

. egen sf=rowtotal(erfsf14x erdsf14x)

. egen mr=rowtotal(erfmr14x erdmr14x)

. egen md=rowtotal(erfmd14x erdmd14x)

. egen pv=rowtotal(erfpv14x erdpv14x)

. egen va=rowtotal(erfva14x erdva14x)

. egen tr=rowtotal(erftr14x erdtr14x)

. egen of=rowtotal(erfof14x erdof14x)

. egen sl=rowtotal(erfsl14x erdsl14x)

. egen wc=rowtotal(erfwc14x erdwc14x)

. egen or=rowtotal(erfor14x erdor14x)

. egen ou=rowtotal(erfou14x erdou14x)

. egen ot=rowtotal(erfot14x erdot14x)

. rename erxp14x xp

. gen evntyp="erom"

. keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

. save erom, replace

(note: file erom.dta not found)

file erom.dta saved

.

. use h168d, clear

. egen sf=rowtotal(ipfsf14x ipdsf14x)

. egen mr=rowtotal(ipfmr14x ipdmr14x)

. egen md=rowtotal(ipfmd14x ipdmd14x)

. egen pv=rowtotal(ipfpv14x ipdpv14x)

. egen va=rowtotal(ipfva14x ipdva14x)

. egen tr=rowtotal(ipftr14x ipdtr14x)

. egen of=rowtotal(ipfof14x ipdof14x)

. egen sl=rowtotal(ipfsl14x ipdsl14x)

. egen wc=rowtotal(ipfwc14x ipdwc14x)

. egen or=rowtotal(ipfor14x ipdor14x)

. egen ou=rowtotal(ipfou14x ipdou14x)

. egen ot=rowtotal(ipfot14x ipdot14x)

. rename ipxp14x xp

. gen evntyp="ipat"

. keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

. save ipat, replace

(note: file ipat.dta not found)

file ipat.dta saved

.

. use h168f, clear

. egen sf=rowtotal(opfsf14x opdsf14x)

. egen mr=rowtotal(opfmr14x opdmr14x)

. egen md=rowtotal(opfmd14x opdmd14x)

. egen pv=rowtotal(opfpv14x opdpv14x)

. egen va=rowtotal(opfva14x opdva14x)

. egen tr=rowtotal(opftr14x opdtr14x)

. egen of=rowtotal(opfof14x opdof14x)

. egen sl=rowtotal(opfsl14x opdsl14x)

. egen wc=rowtotal(opfwc14x opdwc14x)

. egen or=rowtotal(opfor14x opdor14x)

. egen ou=rowtotal(opfou14x opdou14x)

. egen ot=rowtotal(opfot14x opdot14x)

. rename opxp14x xp

. gen evntyp="ambu"

. keep evntid sf mr md pv va tr of sl wc or ou ot xp evntyp

.

. // 6) combine all events into one dataset

. append using ob erom ipat hvis pmed, generate(filenum)

(note: variable sf was float, now double to accommodate using data's values)

(note: variable mr was float, now double to accommodate using data's values)

(note: variable md was float, now double to accommodate using data's values)

(note: variable pv was float, now double to accommodate using data's values)

(note: variable va was float, now double to accommodate using data's values)

(note: variable tr was float, now double to accommodate using data's values)

(note: variable of was float, now double to accommodate using data's values)

(note: variable sl was float, now double to accommodate using data's values)

(note: variable wc was float, now double to accommodate using data's values)

(note: variable or was float, now double to accommodate using data's values)

(note: variable ou was float, now double to accommodate using data's values)

(note: variable ot was float, now double to accommodate using data's values)

. keep if xp>=0

(2,141 observations deleted)

. tab evntyp

evntyp | Freq. Percent Cum.

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

ambu | 179,798 54.34 54.34

erom | 7,236 2.19 56.53

hvis | 5,100 1.54 58.07

ipat | 2,957 0.89 58.96

pmed | 135,777 41.04 100.00

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

Total | 330,868 100.00

.

. // 7) subset events to those only with diabetes

. sort evntidx

. merge 1:m evntidx using diab, keep(matches)

Result # of obs.

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

not matched 0

matched 20,511 (\_merge==3)

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

.

. // 8) calculate estimates on expenditures and use by type of service

. sort dupersid evntyp

. by dupersid evntyp: egen sf\_evnt=sum(sf)

. by dupersid evntyp: egen mr\_evnt=sum(mr)

. by dupersid evntyp: egen md\_evnt=sum(md)

. by dupersid evntyp: egen pv\_evnt=sum(pv)

. by dupersid evntyp: egen va\_evnt=sum(va)

. by dupersid evntyp: egen tr\_evnt=sum(tr)

. by dupersid evntyp: egen of\_evnt=sum(of)

. by dupersid evntyp: egen sl\_evnt=sum(sl)

. by dupersid evntyp: egen wc\_evnt=sum(wc)

. by dupersid evntyp: egen or\_evnt=sum(or)

. by dupersid evntyp: egen ou\_evnt=sum(ou)

. by dupersid evntyp: egen ot\_evnt=sum(ot)

. by dupersid evntyp: egen xp\_evnt=sum(xp)

. by dupersid evntyp: gen n\_visits=\_N

. by dupersid evntyp: keep if \_n==1

(15,847 observations deleted)

. keep dupersid evntyp evntidx \*\_evnt n\_visits

. save allevnt, replace

(note: file allevnt.dta not found)

file allevnt.dta saved

.

. // 9) calculate estimates on expenditures and use, all types of service

. sort dupersid

. by dupersid: egen sf\_per=sum(sf\_evnt)

. by dupersid: egen mr\_per=sum(mr\_evnt)

. by dupersid: egen md\_per=sum(md\_evnt)

. by dupersid: egen pv\_per=sum(pv\_evnt)

. by dupersid: egen va\_per=sum(va\_evnt)

. by dupersid: egen tr\_per=sum(tr\_evnt)

. by dupersid: egen of\_per=sum(of\_evnt)

. by dupersid: egen sl\_per=sum(sl\_evnt)

. by dupersid: egen wc\_per=sum(wc\_evnt)

. by dupersid: egen or\_per=sum(or\_evnt)

. by dupersid: egen ou\_per=sum(ou\_evnt)

. by dupersid: egen ot\_per=sum(ot\_evnt)

. by dupersid: egen xp\_per=sum(xp\_evnt)

. by dupersid: keep if \_n==1

(1,930 observations deleted)

. keep dupersid \*\_per

. save allper, replace

(note: file allper.dta not found)

file allper.dta saved

.

. use dupersid varpsu varstr perwt14f using h171, clear

. sort dupersid

. merge 1:m dupersid using allper, generate(merge\_per)

Result # of obs.

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

not matched 32,141

from master 32,141 (merge\_per==1)

from using 0 (merge\_per==2)

matched 2,734 (merge\_per==3)

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

. foreach var in sf\_per mr\_per md\_per pv\_per va\_per tr\_per of\_per sl\_per wc\_per or\_per ou\_per ot\_per

> xp\_per {

2. recode `var' (missing=0)

3. tab `var' if merge\_per==1

4. }

(sf\_per: 32141 changes made)

sf\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(mr\_per: 32141 changes made)

mr\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(md\_per: 32141 changes made)

md\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(pv\_per: 32141 changes made)

pv\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(va\_per: 32141 changes made)

va\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(tr\_per: 32141 changes made)

tr\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(of\_per: 32141 changes made)

of\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(sl\_per: 32141 changes made)

sl\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(wc\_per: 32141 changes made)

wc\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(or\_per: 32141 changes made)

or\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(ou\_per: 32141 changes made)

ou\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(ot\_per: 32141 changes made)

ot\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(xp\_per: 32141 changes made)

xp\_per | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

.

. 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(if merge\_per==3): mean sf\_per mr\_per md\_per pv\_per va\_per tr\_per of\_per sl\_per wc\_per o

> r\_per ou\_per ot\_per xp\_per

(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 = 2,665

Subpop. size = 25,635,823

Design df = 201

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

| Linearized

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

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

sf\_per | 278.8041 15.61616 248.0116 309.5966

mr\_per | 1099.643 78.5683 944.7196 1254.567

md\_per | 563.4181 80.44117 404.8012 722.0349

pv\_per | 851.7406 97.99756 658.5055 1044.976

va\_per | 96.18277 28.0559 40.86112 151.5044

tr\_per | 25.72068 6.425241 13.05115 38.3902

of\_per | 7.799357 5.004884 -2.069456 17.66817

sl\_per | 38.09738 8.835446 20.67533 55.51944

wc\_per | 2.087832 1.371797 -.6171274 4.792791

or\_per | 42.64947 10.01163 22.90817 62.39078

ou\_per | 288.6121 265.1693 -234.2584 811.4825

ot\_per | 265.1907 248.0991 -224.0202 754.4015

xp\_per | 3559.946 536.9016 2501.264 4618.628

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

.

. use dupersid varpsu varstr perwt14f using h171, clear

. sort dupersid

. merge 1:m dupersid using allevnt, generate(merge\_evnt)

Result # of obs.

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

not matched 32,141

from master 32,141 (merge\_evnt==1)

from using 0 (merge\_evnt==2)

matched 4,664 (merge\_evnt==3)

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

. foreach var in n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_evnt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_

> evnt ou\_evnt ot\_evnt xp\_evnt {

2. recode `var' (missing=0)

3. tab `var' if merge\_evnt==1

4. }

(n\_visits: 32141 changes made)

n\_visits | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(sf\_evnt: 32141 changes made)

sf\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(mr\_evnt: 32141 changes made)

mr\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(md\_evnt: 32141 changes made)

md\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(pv\_evnt: 32141 changes made)

pv\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(va\_evnt: 32141 changes made)

va\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(tr\_evnt: 32141 changes made)

tr\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(of\_evnt: 32141 changes made)

of\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(sl\_evnt: 32141 changes made)

sl\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(wc\_evnt: 32141 changes made)

wc\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(or\_evnt: 32141 changes made)

or\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(ou\_evnt: 32141 changes made)

ou\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(ot\_evnt: 32141 changes made)

ot\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

(xp\_evnt: 32141 changes made)

xp\_evnt | Freq. Percent Cum.

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

0 | 32,141 100.00 100.00

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

Total | 32,141 100.00

.

. 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(if merge\_evnt==3 & evntyp=="ambu"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_ev

> nt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 165 Number of obs = 36,805

Number of PSUs = 366 Population size = 336,346,977

Subpop. no. obs = 1,852

Subpop. size = 17,848,215.8

Design df = 201

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

| Linearized

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

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

n\_visits | 4.191477 .1439481 3.907635 4.475319

sf\_evnt | 65.73381 4.601686 56.66004 74.80758

mr\_evnt | 289.972 27.74364 235.2661 344.6779

md\_evnt | 97.81119 20.20757 57.96517 137.6572

pv\_evnt | 342.8642 109.9944 125.9732 559.7552

va\_evnt | 80.75574 35.18846 11.36985 150.1416

tr\_evnt | 6.830407 2.674565 1.556602 12.10421

of\_evnt | 5.021854 3.295263 -1.475866 11.51957

sl\_evnt | 4.451585 1.512581 1.469023 7.434147

wc\_evnt | 2.542475 1.928197 -1.259614 6.344564

or\_evnt | 13.56533 4.39832 4.892561 22.2381

ou\_evnt | 5.709156 3.263118 -.7251795 12.14349

ot\_evnt | 16.36808 4.620109 7.257975 25.47818

xp\_evnt | 931.6259 123.8869 687.3411 1175.911

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

. svy, subpop(if merge\_evnt==3 & evntyp=="erom"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_ev

> nt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 52 Number of obs = 13,234

Number of PSUs = 116 Population size = 116,718,634

Subpop. no. obs = 67

Subpop. size = 477,937.0675

Design df = 64

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

| Linearized

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

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

n\_visits | 1.393226 .0963805 1.200684 1.585768

sf\_evnt | 39.59122 13.79889 12.02476 67.15769

mr\_evnt | 197.9436 60.50128 77.0784 318.8088

md\_evnt | 246.6821 89.85748 67.17111 426.193

pv\_evnt | 320.1999 166.4883 -12.39877 652.7985

va\_evnt | 3.701198 2.969147 -2.230354 9.63275

tr\_evnt | 3.12256 3.151765 -3.173813 9.418934

of\_evnt | 0 (omitted)

sl\_evnt | 17.7782 12.41841 -7.030419 42.58683

wc\_evnt | 0 (omitted)

or\_evnt | 50.89736 39.13332 -27.28043 129.0752

ou\_evnt | 4.99144 5.017151 -5.031472 15.01435

ot\_evnt | 127.4964 87.35467 -47.01457 302.0074

xp\_evnt | 1012.404 234.6495 543.6376 1481.17

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

Note: 113 strata omitted because they contain no subpopulation

members.

. svy, subpop(if merge\_evnt==3 & evntyp=="hvis"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_ev

> nt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 70 Number of obs = 16,370

Number of PSUs = 156 Population size = 149,588,132

Subpop. no. obs = 115

Subpop. size = 866,371.587

Design df = 86

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

| Linearized

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

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

n\_visits | 4.428139 .4778368 3.478231 5.378047

sf\_evnt | 81.62933 68.46967 -54.48388 217.7425

mr\_evnt | 2046.387 373.3835 1304.126 2788.649

md\_evnt | 3468.098 1558.837 369.2328 6566.963

pv\_evnt | 4.776891 4.589343 -4.346421 13.9002

va\_evnt | 288.4777 118.6922 52.52533 524.4301

tr\_evnt | 0 (omitted)

of\_evnt | 11.90746 11.92957 -11.80775 35.62267

sl\_evnt | 181.1061 131.4176 -80.14344 442.3556

wc\_evnt | 0 (omitted)

or\_evnt | 23.75999 23.4192 -22.79585 70.31583

ou\_evnt | 0 (omitted)

ot\_evnt | 47.36189 30.53152 -13.33277 108.0565

xp\_evnt | 6153.505 1612.992 2946.983 9360.026

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

Note: 95 strata omitted because they contain no subpopulation

members.

. svy, subpop(if merge\_evnt==3 & evntyp=="ipat"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_ev

> nt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 42 Number of obs = 10,892

Number of PSUs = 91 Population size = 101,216,425

Subpop. no. obs = 53

Subpop. size = 407,570.3146

Design df = 49

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

| Linearized

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

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

n\_visits | 1.856831 .2537833 1.346835 2.366828

sf\_evnt | 604.9016 273.9459 54.38659 1155.417

mr\_evnt | 8524.96 2607.056 3285.885 13764.04

md\_evnt | 3095.489 1142.84 798.8652 5392.113

pv\_evnt | 7718.273 3547.987 588.325 14848.22

va\_evnt | 19.04119 18.93141 -19.0029 57.08529

tr\_evnt | 0 (omitted)

of\_evnt | 0 (omitted)

sl\_evnt | 0 (omitted)

wc\_evnt | 0 (omitted)

or\_evnt | 575.1636 410.8654 -250.5013 1400.829

ou\_evnt | 16724.28 14638.89 -12693.67 46142.24

ot\_evnt | 15681.75 13699.83 -11849.09 43212.58

xp\_evnt | 52943.86 26160.59 372.1888 105515.5

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

Note: 123 strata omitted because they contain no subpopulation

members.

. svy, subpop(if merge\_evnt==3 & evntyp=="pmed"): mean n\_visits sf\_evnt mr\_evnt md\_evnt pv\_evnt va\_ev

> nt tr\_evnt of\_evnt sl\_evnt wc\_evnt or\_evnt ou\_evnt ot\_evnt xp\_evnt

(running mean on estimation sample)

Survey: Mean estimation

Number of strata = 165 Number of obs = 36,805

Number of PSUs = 366 Population size = 336,346,977

Subpop. no. obs = 2,462

Subpop. size = 23,942,282.1

Design df = 201

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

| Linearized

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

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

n\_visits | 4.907703 .0864163 4.737304 5.078102

sf\_evnt | 235.4812 14.08511 207.7077 263.2548

mr\_evnt | 738.1386 59.50924 620.7961 855.4811

md\_evnt | 347.241 53.25987 242.2212 452.2607

pv\_evnt | 518.4403 51.61034 416.6732 620.2075

va\_evnt | 31.94851 9.562266 13.09328 50.80373

tr\_evnt | 22.38583 5.857999 10.83481 33.93684

of\_evnt | 4.176524 2.957347 -1.654882 10.00793

sl\_evnt | 30.56529 8.096027 14.60125 46.52933

wc\_evnt | .3401781 .3207417 -.292272 .9726282

or\_evnt | 23.88691 7.157076 9.774325 37.99949

ou\_evnt | 19.97313 8.665382 2.886418 37.05985

ot\_evnt | .5370141 .447695 -.3457672 1.419795

xp\_evnt | 1973.114 103.3012 1769.421 2176.808

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

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. log close

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log type: text

closed on: 22 Feb 2017, 14:46:52

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