
```
name: <unnamed>
log: /Users/kakerber/Box Sync/StataBox/NHIS/NAMCSDizzinessApplication
> Data.smcl
log type: smcl
opened on: 30 Jan 2018, 16:25:26
```

```
1 . * TITLE: NAMCS summary statistics for grant application
2 . * AUTHOR(S): Kevin Kerber
3 . * LAST UPDATE: 1/20/2018
4 . * DESCRIPTION:
5 . * Data file: https://www.cdc.gov/nchs/ahcd/datasets_documentation_related.h
> tm
6 .
7 .
8 .
9 . *=== [0] Data Import
10 . *---2012
11 . cd "/Users/kakerber/Documents/STATA/DataFiles/NHIS"
    /Users/kakerber/Documents/STATA/DataFiles/NHIS
12 . qui use "NAMCS/namcs2012-stata.dta"
13 . gen namcs2012 = 1
14 . * 76,330 lines
15 .
16 . *---2013
17 . qui append using "NAMCS/2013NAMCS/namcs2013-stata.dta", generate(na
> mcs2013)
18 . order TIMEMD
19 . * RFV1 RFV2 RFV3 DIAG1 DIAG2 DIAG3
20 .
21 . *--- 2011
22 . qui append using "NAMCS/2011NAMCS/namcs2011-stata.dta", gen(namcs20
> 11)
```

```

23 .
24 .      *--- 2010
25 .      qui append using "NAMCS/2010NAMCS/NAMCS2010-stata.dta", gen(namcs20
    > 10)

26 .
27 .      *--- 2009
28 .      qui append using "NAMCS/2009NAMCS/NAMCS09-stata.dta", gen(namcs2009
    > )

29 .
30 .      * mdesc
31 .      count // 225,585
    225,585

32 .
33 .      svyset CPSUM [pweight=PATWT] , strata(CSTRATM) singleunit(certaint
    > y)

    pweight: PATWT
    VCE: linearized
    Single unit: certainty
    Strata 1: CSTRATM
    SU 1: CPSUM
    FPC 1: <zero>

34 .
35 . *=== [ ] Code variables
36 .      * Dizziness Reason for Visit
37 . gen DizzyRFV = 0

38 . replace DizzyRFV = 1 if RFV1 == 12250
    (1,406 real changes made)

39 . replace DizzyRFV = 1 if RFV2 == 12250
    (839 real changes made)

```

```

40 . replace DizzyRFV = 1 if RFV3 == 12250
    (392 real changes made)

41 .           * Dizziness listed as #1 reason for visit
42 . gen DizzyRFVPrimary = 0

43 . replace DizzyRFVPrimary = 1 if RFV1 == 12250 //
    (1,406 real changes made)

44 .           * Chest pain reason for visit
45 . gen ChestPainRFV = 0

46 . replace ChestPainRFV = 1 if RFV1 == 10501
    (1,364 real changes made)

47 . replace ChestPainRFV = 1 if RFV2 == 10501
    (510 real changes made)

48 . replace ChestPainRFV = 1 if RFV3 == 10501
    (266 real changes made)

49 .           * Chest pain as #1 reason for visit
50 . gen ChestPainRFV_Primary = 0

51 . replace ChestPainRFV_Primary = 1 if RFV1 == 10501
    (1,364 real changes made)

52 .           * Peripheral vestibular primary diagnosis
53 . gen PeriphVestDx = 0

54 . replace PeriphVestDx = 1 if regexm(DIAG1,"^386")
    (237 real changes made)

55 .
56 .           * Symptom visits
57 . gen SymptRFV1 = 0

```

```

58 . replace SymptRFV1 = 1 if RFV1 >= 10000 & RFV1 <20000
    (97,070 real changes made)

59 .           * Common tests
60 . egen CommonTests = rowtotal(CBC GLUCOSE AUDIO EKG ANYIMAGE ECHOCARD OTHULTR
    > A XRAY OTHIMAGE CARDIAC EEG EMG HIVTEST PREGTEST URINE)

61 . tab CommonTests, m

```

CommonTests	Freq.	Percent	Cum.
0	161,933	71.78	71.78
1	30,567	13.55	85.33
2	23,299	10.33	95.66
3	6,633	2.94	98.60
4	2,019	0.90	99.50
5	860	0.38	99.88
6	232	0.10	99.98
7	38	0.02	100.00
8	4	0.00	100.00
Total	225,585	100.00	

```

62 . gen AnyCommonTests = 0

63 . replace AnyCommonTests = 1 if CommonTests >0 & CommonTests != .
    (63,652 real changes made)

64 .           * Common tests or referrals
65 . gen AnyCommonTestsOrReferral = AnyCommonTests

66 . replace AnyCommonTestsOrReferral = 1 if REFOTHMD == 1
    (11,993 real changes made)

67 .
68 . *=== [ ] Summary statistics
69 . * Percent of symptom-based visits with primary care provider.

```

```
70 . svy, subpop(if SPECCAT==1 & SymptRFV1==1): tab DizzyRFV, ci // 2.2%
    (running tabulate on estimation sample)
```

```
Number of strata =      209          Number of obs   =      174,89
> 5
Number of PSUs   =      5,673        Population size =  4,085,444,12
> 3
> 8
> 8
> 8
> 4
                                Subpop. no. obs   =      42,34
                                Subpop. size      =  1,185,030,85
                                Design df         =           5,46
```

DizzyRFV	proportion	lb	ub
0	.9779	.9756	.98
1	.0221	.02	.0244
Total	1		

```
Key:  proportion = cell proportion
      lb         = lower 95% confidence bound for cell proportion
      ub         = upper 95% confidence bound for cell proportion
```

Note: 164 strata omitted because they contain no subpopulation members.

```
71 . svy, subpop(if SPECCAT==1 & SymptRFV1==1): tab ChestPainRFV , ci // 1.9%
    (running tabulate on estimation sample)
```

```
Number of strata =      209          Number of obs   =      174,89
> 5
Number of PSUs   =      5,673        Population size =  4,085,444,12
> 3
> 8
> 8
> 8
> 4
                                Subpop. no. obs   =      42,34
                                Subpop. size      =  1,185,030,85
                                Design df         =           5,46
```

ChestPain RFV	proportion	lb	ub
0	.9815	.9791	.9836
1	.0185	.0164	.0209
Total	1		

Key: proportion = **cell proportion**
 lb = **lower 95% confidence bound for cell proportion**
 ub = **upper 95% confidence bound for cell proportion**

Note: 164 strata omitted because they contain no subpopulation members.

```
72 .          * Percent referrals to another provider for vertigo-dizziness, ches
> t pain, and all other
73 . svy: tab REFOTHMD if RFV1 == 12250 & SPECCAT == 1, ci // vertigo-dizziness,
> 15.7%
(running tabulate on estimation sample)
```

```
Number of strata =      128          Number of obs   =      53
> 3
Number of PSUs   =      380          Population size = 17,117,24
> 1
Design df        =      25
> 2
```

Refer to other physician	proportion	lb	ub
No	.8428	.8009	.8772
Yes	.1572	.1228	.1991
Total	1		

Key: proportion = **cell proportion**
 lb = **lower 95% confidence bound for cell proportion**
 ub = **upper 95% confidence bound for cell proportion**

Note: Strata with single sampling unit treated as certainty units.

```
74 . svy: tab REFOTHMD if RFV1 == 10501 & SPECCAT == 1, ci // chest pain 15.6%
    (running tabulate on estimation sample)
```

```
Number of strata =      119          Number of obs   =      47
> 7
Number of PSUs   =      347          Population size = 14,900,83
> 2
                                          Design df      =      22
> 8
```

Refer to other physician	proportion	lb	ub
No	.8437	.7943	.8829
Yes	.1563	.1171	.2057
Total	1		

```
Key:  proportion = cell proportion
      lb         = lower 95% confidence bound for cell proportion
      ub         = upper 95% confidence bound for cell proportion
```

Note: Strata with single sampling unit treated as certainty units.

```
75 . svy: tab REFOTHMD if SymptRFV1 == 1 & SPECCAT == 1 & ChestPainRFV != 1 & Di
    > zzyRFV != 1, ci // 11.4%, all non-dizzy, non-chest pain
    (running tabulate on estimation sample)
```

```
Number of strata =      209          Number of obs   =      40,79
> 4
Number of PSUs   =      2,997        Population size = 1,138,035,92
> 0
                                          Design df      =      2,78
> 8
```

Refer to other physician	proportion	lb	ub
No	.8865	.8784	.8941
Yes	.1135	.1059	.1216
Total	1		

```
Key:  proportion = cell proportion
      lb         = lower 95% confidence bound for cell proportion
```

ub = upper 95% confidence bound for cell proportion

Note: Strata with single sampling unit treated as certainty units.

```
76 . * Percent of peripher vestibular diagnosis visits receiving at leas
> t 1 test or referral
77 . svy, subpop(if PeriphVestDx ==1): tab AnyCommonTests, ci
(running tabulate on estimation sample)
```

```
Number of strata = 93          Number of obs = 114,29
> 3
Number of PSUs = 3,036       Population size = 2,669,119,39
> 0
                                Subpop. no. obs = 23
> 7
                                Subpop. size = 4,635,075.156
> 6
                                Design df = 2,94
> 3
```

AnyCommon Tests	proportion	lb	ub
0	.6843	.5781	.7743
1	.3157	.2257	.4219
Total	1		

Key: proportion = cell proportion
 lb = lower 95% confidence bound for cell proportion
 ub = upper 95% confidence bound for cell proportion

Note: 280 strata omitted because they contain no subpopulation members.

```
78 . svy, subpop(if PeriphVestDx ==1): tab AnyCommonTestsOrReferral, ci
(running tabulate on estimation sample)
```

```
Number of strata = 93          Number of obs = 114,29
> 3
Number of PSUs = 3,036       Population size = 2,669,119,39
> 0
                                Subpop. no. obs = 23
> 7
                                Subpop. size = 4,635,075.156
> 6
                                Design df = 2,94
> 3
```


AnyCommon TestsOrRe ferral	proportion	lb	ub
0	.611	.529	.6872
1	.389	.3128	.471
Total	1		

Key: proportion = **cell proportion**
 lb = **lower 95% confidence bound for cell proportion**
 ub = **upper 95% confidence bound for cell proportion**

Note: 280 strata omitted because they contain no subpopulation members.

```
79 .          * Mean time for visit
80 . svy: mean TIMEMD if SPECCAT == 1 & DizzyRFV == 1 // Primary care specialty,
> dizziness visit
(running mean on estimation sample)
```

Survey: Mean estimation

```
Number of strata =    148      Number of obs   =    1,072
Number of PSUs   =    668      Population size = 32,286,186
Design df        =              =    520
```

	Linearized		
	Mean	Std. Err.	[95% Conf. Interval]
TIMEMD	20.74946	.5255013	19.71709 21.78182

Note: Strata with single sampling unit treated as certainty units.

```
81 .          * Most common primary diagnosis for when dizziness is #1 reason for
> visit.
```

```
82 . groups DIAG1 if DizzyRFVPrimary == 1, order(h) select(20)
```

DIAG1	Freq.	Percent	%<=
7804-	430	30.58	30.58
38611	69	4.91	35.49
4019-	62	4.41	39.90
7802-	38	2.70	42.60
41400	19	1.35	43.95
38600	17	1.21	45.16
7812-	16	1.14	46.30
42731	15	1.07	47.37
38630	14	1.00	48.36
4739-	14	1.00	49.36
25000	12	0.85	50.21
38610	12	0.85	51.07
7840-	12	0.85	51.92
3320-	11	0.78	52.70
78079	11	0.78	53.49
34690	10	0.71	54.20
4011-	10	0.71	54.91
38601	9	0.64	55.55
7813-	9	0.64	56.19
7851-	9	0.64	56.83

```
83 . * number of unique diagnoses when dizziness is primary reason for v
> isit
```

```
84 . unique DIAG1 if DizzyRFVPrimary == 1
Number of unique values of DIAG1 is 337
Number of records is 1406
```

```
85 .
```

```
86 .          * number of unique diagnoses when dizziness is primary reason for v
> isit
87 . unique DIAG1 if ChestPainRFV_Primary == 1
Number of unique values of DIAG1 is  240
Number of records is  1364

88 .
89 . di 337 / 240
    1.4041667

90 .
91 . log close
      name:  <unnamed>
      log:   /Users/kakerber/Box Sync/StataBox/NHIS/NAMCSDizzinessApplication
> Data.smcl
      log type:  smcl
      closed on: 30 Jan 2018, 16:25:51
```
