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:

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(namcs2013)

18. order TIMEMD

19. * RFV1 RFV2 RFV3 DIAG1 DIAG2 DIAG3
20.
21. *--- 2011
23. *--- 2010
24. qui append using "NAMCS/2010NAMCS/NAMCS2010-stata.dta", gen(namcs20 > 10)
25.
26. *--- 2009
27. qui append using "NAMCS/2009NAMCS/NAMCS09-stata.dta", gen(namcs2009 > )
28.
29. * mdesc
30. count // 225,585
31. 225,585
32.
33. svyset CPSUM [pweight=PATWT] , strata(CSTRATM) singleunit(certainty > 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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>161,933</td>
<td>71.78</td>
<td>71.78</td>
</tr>
<tr>
<td>1</td>
<td>30,567</td>
<td>13.55</td>
<td>85.33</td>
</tr>
<tr>
<td>2</td>
<td>23,299</td>
<td>10.33</td>
<td>95.66</td>
</tr>
<tr>
<td>3</td>
<td>6,633</td>
<td>2.94</td>
<td>98.60</td>
</tr>
<tr>
<td>4</td>
<td>2,019</td>
<td>0.90</td>
<td>99.50</td>
</tr>
<tr>
<td>5</td>
<td>860</td>
<td>0.38</td>
<td>99.88</td>
</tr>
<tr>
<td>6</td>
<td>232</td>
<td>0.10</td>
<td>99.98</td>
</tr>
<tr>
<td>7</td>
<td>38</td>
<td>0.02</td>
<td>100.00</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>0.00</td>
<td>100.00</td>
</tr>
<tr>
<td>Total</td>
<td>225,585</td>
<td>100.00</td>
<td></td>
</tr>
</tbody>
</table>

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.
. 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
Subpop. no. obs = 42,34
Subpop. size = 1,185,030,85
> 8
Design df = 5,46
> 4

<table>
<thead>
<tr>
<th>DizzyRFV</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>.9779</td>
<td>.9756</td>
<td>.98</td>
</tr>
<tr>
<td>1</td>
<td>.0221</td>
<td>.02</td>
<td>.0244</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

. 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
Subpop. no. obs = 42,34
Subpop. size = 1,185,030,85
> 8
Design df = 5,46
> 4
<table>
<thead>
<tr>
<th>ChestPain RFV</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>.9815</td>
<td>.9791</td>
<td>.9836</td>
</tr>
<tr>
<td>1</td>
<td>.0185</td>
<td>.0164</td>
<td>.0209</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, chest pain, and all other

73.  `svy: tab REFOTHMD if RFV1 == 12250 & SPECCAT == 1, ci // vertigo-dizziness, chest pain, and all other

    (running tabulate on estimation sample)

Number of strata = 128  
Number of obs = 53  
Number of PSUs = 380  
Population size = 17,117,24  
Design df = 25

<table>
<thead>
<tr>
<th>Refer to other physician</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>.8428</td>
<td>.8009</td>
<td>.8772</td>
</tr>
<tr>
<td>Yes</td>
<td>.1572</td>
<td>.1228</td>
<td>.1991</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Refer to other physician</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>.8437</td>
<td>.7943</td>
<td>.8829</td>
</tr>
<tr>
<td>Yes</td>
<td>.1563</td>
<td>.1171</td>
<td>.2057</td>
</tr>
</tbody>
</table>

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 & DizzyRFV != 1, ci // 11.4%, all non-dizzy, non-chest pain  
(running tabulate on estimation sample)

<table>
<thead>
<tr>
<th>Refer to other physician</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>.8865</td>
<td>.8784</td>
<td>.8941</td>
</tr>
<tr>
<td>Yes</td>
<td>.1135</td>
<td>.1059</td>
<td>.1216</td>
</tr>
</tbody>
</table>

Total 1

Key: proportion = cell proportion
lb = lower 95% confidence bound for cell proportion
Note: Strata with single sampling unit treated as certainty units.

* Percent of peripher vestibular diagnosis visits receiving at least 1 test or referral

```
. svy, subpop(if PeriphVestDx ==1): tab AnyCommonTests, ci
```

```
Number of strata =    93
Number of obs   =   114,293
Number of PSUs  =  3,036
Population size = 2,669,119,390
Subpop. no. obs =      23
Subpop. size    = 4,635,075.156
Design df       =    2,943

<table>
<thead>
<tr>
<th>AnyCommon Tests</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>.6843</td>
<td>.5781</td>
<td>.7743</td>
</tr>
<tr>
<td>1</td>
<td>.3157</td>
<td>.2257</td>
<td>.4219</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

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.
<table>
<thead>
<tr>
<th>AnyCommon TestsOrRe ferral</th>
<th>proportion</th>
<th>lb</th>
<th>ub</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0.611</td>
<td>0.529</td>
<td>0.6872</td>
</tr>
<tr>
<td>1</td>
<td>0.389</td>
<td>0.3128</td>
<td>0.471</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Number of strata = 148</th>
<th>Number of obs = 1,072</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of PSUs = 668</td>
<td>Population size = 32,286,186</td>
</tr>
<tr>
<td>Design df = 520</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TIMEMD</th>
<th>Linearized [95% Conf. Interval]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean   Std. Err.   95% Conf. Interval</td>
</tr>
<tr>
<td></td>
<td>20.74946   0.5255013   19.71709   21.78182</td>
</tr>
</tbody>
</table>

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)`

<table>
<thead>
<tr>
<th><code>DIAG1</code></th>
<th><code>Freq.</code></th>
<th><code>Percent</code></th>
<th><code>%&lt;=</code></th>
</tr>
</thead>
<tbody>
<tr>
<td><code>7804-</code></td>
<td><code>430</code></td>
<td><code>30.58</code></td>
<td><code>30.58</code></td>
</tr>
<tr>
<td><code>38611</code></td>
<td><code>69</code></td>
<td><code>4.91</code></td>
<td><code>35.49</code></td>
</tr>
<tr>
<td><code>4019-</code></td>
<td><code>62</code></td>
<td><code>4.41</code></td>
<td><code>39.90</code></td>
</tr>
<tr>
<td><code>7802-</code></td>
<td><code>38</code></td>
<td><code>2.70</code></td>
<td><code>42.60</code></td>
</tr>
<tr>
<td><code>41400</code></td>
<td><code>19</code></td>
<td><code>1.35</code></td>
<td><code>43.95</code></td>
</tr>
</tbody>
</table>

| `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 visit

84. `unique DIAG1` `if` `DizzyRFVPrimary` `==` `1`

   Number of unique values of `DIAG1` is **337**
   Number of records is **1406**

85. 
* number of unique diagnoses when dizziness is primary reason for visit
> isit
unique DIAG1 if ChestPainRFV_Primary == 1
Number of unique values of DIAG1 is 240
Number of records is 1364

di 337 / 240
1.4041667

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