Subject: Creating Sub-Population of Neonates
Posted by shujaat.smc@gmail.com on Wed, 07 Oct 2020 15:17:23 GMT
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Dear DHS Representative,

I am doing analysis with objectives of estimating the NMR & its determinants for singleton and bw=2500 & above.

For this I have created the subpopulation of neonates using command;

recode m19 (500/2495=-1 "LowBW") (9996/.=-2 "NoRecord") (2500/3000=1 "BW2500-3000") (3001/3500=2 "BW3001/3500") (3540/4000=3 "BW3540-4000") (4011/6000=4 "BW4011-6000") if v210!=1 & b0==0 , gen (subpopulationbw2)

V210= Born in month of month of interview (Yes=1)

b0==0 This include only singleton births

On simple tabulation I got following result;

tab subpopulationbw2

RECODE of m19 (birth weight in kilograms (3 decimals))	Freq.	Percent	Cum.
NoRecord	32,191	96.36	96.36
LowBW	237	0.71	97.07
BW2500-3000	553	1.66	98.72
BW3001/3500	219	0.66	99.38
BW3540-4000	118	0.35	99.73
BW4011-6000	90	0.27	100.00
Total	33,408	100.00	

On adding the counts of my subpopulation total newborns= 980

******* My Querry 1 **********

svy linearized : tabulate subpopulationbw2, count

Number of strata = 8 Number of obs = 33408
Number of PSUs = 374 Population size = 3.846e-08
Design df = 366

```
---------------------
RECODE of |
m19       |
(birth    |
weight in |
kilograms |
(3        |
decimals) |
)         |      count
----------+-----------
 NoRecord |    3.7e-08
    LowBW |    3.3e-10
 BW2500-3 |    6.9e-10
 BW3001/3 |    2.9e-10
 BW3540-4 |    1.5e-10
 BW4011-6 |    1.2e-10
          |
    Total |    3.8e-08
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  Key:  count     =  weighted counts
```

Question: Why these numbers are appearing 6.9e-10 ?????? in my subpopulation of interest ????? What should I do ????

******** My Query 2 **

```
. svy linearized : stcox ib(4).v024
(running stcox on estimation sample)

Survey: Cox regression

Number of strata   =         8                  Number of obs      =     34425
Number of PSUs     =       374                  Population size    = 3.961e-08
                                                Subpop. no. of obs =     34065
                                                Subpop. size       = 3.910e-08
                                                Design df          =       366
                                                F(   3,    364)    =      1.45
                                                Prob > F           =    0.2293

 ------------------------------------------------------------- ------------------
              |             Linearized
           _t | Haz. Ratio   Std. Err.      t    P>|t|     [95% Conf. Interval]
 -------------+----------------------------------------------- ------------------
        v024 |
      punjab |    1.36725   .2537737     1.69   0.093     .9491468    1.969531
       sindh |   1.150385   .2243874     0.72   0.473     .7839022    1.688202
```

kpk | 1.237139 .2541046 1.04 0.301 .8260464 1.852819

My Population size was 980 as I have mentioned above, however in this univariate cox model my population size is Population size = 3.961e-08

my stset command stset dayofneonataldeath [pweight = v005], failure(neonataldeath==1)

Question2: What should I do for the correct Model Building in stepwise forward manner ????? How I can correct my population size appearing as 3.961e-08 ???

Best Regards

Dr. Hussain
