
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 Query 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

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
