Subject: Re: Namibia 2013
Posted by Trevor-DHS on Sat, 21 Feb 2015 18:11:58 GMT
View Forum Message <> Reply to Message

The key variable you need to use is sh336k which holds the blood glucose level. The missing values come for a number of reasons:
1) Blood glucose is only collected in a subsample of households. All members in households not selected for the sample will have a missing value.
2) Blood glucose is only collected for women and men age 35-64. All members other than those age 35-64 will have a missing value.
3) Blood glucose is only collected for women and men age 35-64 who consent to being tested. All other will have missing data.

The values in sh336k are recoded into the 4 groups presented in the tables. sh336k contains values per decilitre (dl) rather than per litre as shown in the table, so the recoding is into the following groups: 0-38 = below normal, 39-60 = normal, 61-69 = prediabetic, 70-222 = elevated, other higher values are consider invalid as are excluded.

Below is some simple code in R for tabulating the data:

```
install.packages("foreign")
install.packages("survey")
install.packages("car")
library(foreign)
library(survey)
library(car)

dta <- read.dta("C:/Data/DHS_stata/NMPR60FL.dta", convert.factors = FALSE)

dta$bg<-factor(recode(dta$sh336k,"0:38='1 below normal';39:60='2 normal';61:69='3
prediabetic';70:222='4 elevated';else=NA"))
dta$sex <-factor(recode(dta$hv104,"1='1 Male';2='2 Female';else=NA"))

DHSdesign<-svydesign(id=dta$hv021, strata=dta$hv022, weights=dta$hv005/1000000, data=dta)
bg.table <- svytable(~sex+bg, DHSdesign)
bg.table
prop.table(bg.table,1)*100
margin.table(bg.table,1)
```

The output results should look like:

```
> bg.table
        bg
sex       1 below normal   2 normal 3 prediabetic 4 elevated
  1 Male       111.24863  967.97756      76.83102   65.28731
  2 Female      79.05747 1570.28125     133.86968   89.82786
> prop.table(bg.table,1)*100
        bg
sex       1 below normal  2 normal 3 prediabetic 4 elevated
  1 Male        9.108702 79.255078      6.290692   5.345528
  2 Female      4.220819 83.836137      7.147202   4.795842
```

```
> margin.table(bg.table,1)
sex
  1 Male 2 Female
1221.345 1873.036
```