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Subject: Re: Namibia 2013

Posted by [Trevor-DHS](#) on Sat, 21 Feb 2015 18:11:58 GMT

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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$sex <- factor(recode(dta$hiv104, "1='1 Male';2='2 Female';else=NA"))
```

```
DHSdesign <- svydesign(id=dta$hiv021, strata=dta$hiv022, weights=dta$hiv005/1000000, 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
```

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