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Subject: micronutrient intake

Posted by [abebe](#) on Wed, 27 Feb 2019 23:49:27 GMT

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Hello, I am trying to see the factors affecting vitamin A intake of children from the 2005, 2011 and 2016 Ethiopian dataset. I am using the childrens dataset and since food intake was collected from the youngest children living with their mother, can you help me how I can identify the youngest children in SPSS?

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Subject: Re: micronutrient intake

Posted by [Mlue](#) on Fri, 01 Mar 2019 10:24:35 GMT

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Hello Abebe,

You can try the following codes (for each year). Note that for 2005, the age-range was children age 6-35 months while it was 6-23 months for the other years.

FOR 2005 DATA

GET

FILE='C:\Users\User1\Documents\ETHIOPIA DHS - 2005\ETBR51FL.SAV'.  
DATASET NAME DataSet1 WINDOW=FRONT.

\*\*\*\*\*

\*\* GENERATE THE WEIGHT VARIABLE & WEIGHT DATA \*\*.

COMPUTE weight = v005/1000000.

WEIGHT BY weight.

\*\*\*\*\*

\*\* COMPLEX SURVEY VARIABLES (equivalent to Stata's svyset) \*\*.

COMPUTE psu = v021.

COMPUTE strata = v023.

\*\*\*\*\*

\*\* RENAME A FEW VARIABLES TO BE USE IN ANALYSIS \*\*.

RENAME VARIABLES (v013 = age) (v106 = education) (v190 = wealth) (v025 = residence) (v024 = region).

\*\*\*\*\*

\*\* CREATING THE INDICATOR VARIABLE (DEPENDENT VARIABLE) \*\*.

\*\* CHILD AGE = [COMPUTE child\_age = b19] FOR RECENT SURVEYS.

COMPUTE child\_age = v008 - b3.

RECODE child\_age (0 THRU 1 = 1) (2 THRU 3 = 2) (4 THRU 5 = 3) (6 THRU 8 = 4)

```
(9 THRU 11 = 5) (12 THRU 17 = 6) (18 THRU 23 = 7) (ELSE = 0) INTO child_age_grp.
VARIABLE LABELS child_age_grp "Child's age in months - grouped".
VALUE LABELS child_age_grp 1 "0-1 months" 2 "2-3 months" 3 "4-5 months" 4 "6-8 months" 5
"9-11 months" 6 "12-17 months" 7 "18-23 months".
EXECUTE.
```

```
*****.
```

```
* keep only if child is living with the mother.
SELECT IF b9 EQ 0.
```

```
*****.
```

```
* Finding the youngest child living with the mother for each mother.
```

```
AGGREGATE
```

```
  /OUTFILE=* MODE=ADDVARIABLES OVERWRITE=YES
```

```
  /BREAK v001 v002 v003
```

```
  /hhsz 'Household size' = n
```

```
  /minbidx 'MINBIDX' =min(bidx).
```

```
EXECUTE.
```

```
* need to drop those that are bidx==2 and minbidx==1.
```

```
SELECT IF bidx LE minbidx.
```

```
*****.
```

```
/** VARIABLES **/.
```

```
*// eggs, any meat, organ meat, fish/shellfish.
```

```
COMPUTE MeatF =0.
```

```
  IF (S470J=1 | S470K=1 | S470L=1 | S470M=1 | S470N=1) MeatF = 1.
```

```
VALUE LABELS MeatF 0"No" 1"Yes" .
```

```
EXECUTE.
```

```
*// fruits & vegetables rich in vitamin A.
```

```
COMPUTE Fruits =0.
```

```
  IF (S470F=1 | S470G=1 | S470H =1) Fruits = 1.
```

```
VALUE LABELS Fruits 0"No" 1"Yes" .
```

```
EXECUTE.
```

```
*// Percentage who consumed foods rich in vitamin A in past 24 hours .
```

```
COMPUTE VitaminA =0.
```

```
  IF (Fruits = 1 | MeatF=1) VitaminA = 1.
```

```
VARIABLE LABELS VitaminA "Percentage who consumed foods rich in vitamin A in past 24
hours".
```

```
VALUE LABELS VitaminA 0"No" 1"Yes" .
```

```
EXECUTE.
```

```
*// Percentage who consumed foods rich in iron in past 24 hours.
```

```
COMPUTE Iron =0.
```

```
  IF (MeatF = 1) Iron = 1.
```

VARIABLE LABELS Iron "Percentage who consumed foods rich in iron in past 24 hours".  
VALUE LABELS Iron 0"No" 1"Yes" .  
EXECUTE.

\*\*\*\*\*.

\*\* SELECT CHILDREN AGED 6-35 MONTHS (it was up to 35 months in 2005) \*\*.   
SELECT IF RANGE(child\_age,6,35).

\*\*\*\*\*.

/\*\* CHECK - note that you may have to use complex surveys to match the results in the report \*\*/.

FREQUENCIES VARIABLES= MeatF Fruits VitaminA Iron  
/ORDER=ANALYSIS.

CROSSTABS  
/TABLES=wealth BY VitaminA Iron  
/FORMAT=AVALUE TABLES  
/CELLS=ROW  
/COUNT ROUND CELL.

\*\*\*\*\*.

/\*\* COMPLEX SURVEYS \*\*/.

\* Analysis Preparation Wizard.

CSPLAN ANALYSIS

/PLAN FILE='C:\Users\User1\Documents\ETHIOPIA DHS -  
2005\ETDHS2005\_CSPLAN.csaplan'  
/PLANVARS ANALYSISWEIGHT=weight  
/SRSESTIMATOR TYPE=WOR  
/PRINT PLAN  
/DESIGN STRATA=strata CLUSTER=psu  
/ESTIMATOR TYPE=WR.

\*\*\*\*\*.

/\*\* CHECK \*\*/.

\* Complex Samples Frequencies.

CSTABULATE

/PLAN FILE='C:\Users\User1\Documents\ETHIOPIA DHS -  
2005\ETDHS2005\_CSPLAN.csaplan'  
/TABLES VARIABLES=child\_age\_grp VitaminA Iron  
/CELLS POPSIZE TABLEPCT  
/STATISTICS DEFF  
/MISSING SCOPE=TABLE CLASSMISSING=EXCLUDE.

\*\*\*\*\*.

**\*\* CROSSTABS \*\*.**

**\* Complex Samples Crosstabs.**

**CSTABULATE**

**/PLAN FILE='C:\Users\User1\Documents\ETHIOPIA DHS -  
2005\ETDHS2005\_CSPLAN.csaplan'**

**/TABLES VARIABLES=child\_age\_grp b4 residence region education wealth BY VitaminA**

**/CELLS ROWPCT**

**/STATISTICS CV**

**/MISSING SCOPE=TABLE CLASSMISSING=EXCLUDE.**

**\* Complex Samples Crosstabs.**

**CSTABULATE**

**/PLAN FILE='C:\Users\User1\Documents\ETHIOPIA DHS -  
2005\ETDHS2005\_CSPLAN.csaplan'**

**/TABLES VARIABLES=child\_age\_grp b4 residence region education wealth BY Iron**

**/CELLS ROWPCT**

**/STATISTICS CV**

**/MISSING SCOPE=TABLE CLASSMISSING=EXCLUDE.**

\*\*\*\*\*.

**FOR 2011 DATA**

**\*\* I USED A Stata FILE HERE (I DID NOT HAVE THE SPSS FILE FOR 2011 WHEN WRITING THIS CODE).**

**GET**

**STATA FILE='C:\Users\User1\Desktop\FINAL FORMATIONS ON STATA - CS 2016\Census  
1996 formations\ETHIOPIA DHS 2011\ETBR61FL.DTA'.**

**DATASET NAME DataSet1 WINDOW=FRONT.**

\*\*\*\*\*.

**\*\* GENERATE THE WEIGHT VARIABLE & WEIGHT DATA \*\*.**

**COMPUTE weight = v005/1000000.**

**WEIGHT BY weight.**

\*\*\*\*\*.

**\*\* COMPLEX SURVEY VARIABLES (equivalent to Stata's svyset) \*\*.**

**COMPUTE psu = v021.**

**COMPUTE strata = v023.**

\*\*\*\*\*.

**\*\* RENAME A FEW VARIABLES TO BE USE IN ANALYSIS \*\*.**

**RENAME VARIABLES (v013 = age) (v106 = education) (v190 = wealth) (v025 = residence) (v024 = region).**

\*\*\*\*\*

\*\* CREATING THE INDICATOR VARIABLE (DEPENDENT VARIABLE) \*\*.

\*\* CHILD AGE = [COMPUTE child\_age = b19] FOR RECENT SURVEYS.

COMPUTE child\_age = v008 - b3.

RECODE child\_age (0 THRU 1 = 1) (2 THRU 3 = 2) (4 THRU 5 = 3) (6 THRU 8 = 4)  
(9 THRU 11 = 5) (12 THRU 17 = 6) (18 THRU 23 = 7) (ELSE = 0) INTO child\_age\_grp.

VARIABLE LABELS child\_age\_grp "Child's age in months - grouped".

VALUE LABELS child\_age\_grp 1 "0-1 months" 2 "2-3 months" 3 "4-5 months" 4 "6-8 months" 5  
"9-11 months" 6 "12-17 months" 7 "18-23 months".

EXECUTE.

\*\*\*\*\*

\* keep only if child is living with the mother.

SELECT IF b9 EQ 0.

\*\*\*\*\*

\* Finding the youngest child living with the mother for each mother.

AGGREGATE

/OUTFILE=\* MODE=ADDVARIABLES OVERWRITE=YES

/BREAK v001 v002 v003

/hhsz 'Household size' = n

/minbidx 'MINBIDX' =min(bidx).

EXECUTE.

\* need to drop those that are bidx==2 and minbidx==1.

SELECT IF bidx LE minbidx.

\*\*\*\*\*

/\*\* VARIABLES \*\*/.

\*// eggs, any meat, organ meat, fish/shellfish.

COMPUTE MeatF =0.

IF ( V414G=1 | V414H=1 | V414M=1 | V414N=1 ) MeatF = 1.

VALUE LABELS MeatF 0"No" 1"Yes" .

EXECUTE.

\*// fruits & vegetables rich in vitamin A.

COMPUTE Fruits =0.

IF ( V414I = 1 | V414J =1 | V414K=1 ) Fruits = 1.

VALUE LABELS Fruits 0"No" 1"Yes" .

EXECUTE.

\*// Percentage who consumed foods rich in vitamin A in past 24 hours1 .

COMPUTE VitaminA =0.

IF ( Fruits = 1 | MeatF ) VitaminA = 1.

VARIABLE LABELS VitaminA "Percentage who consumed foods rich in vitamin A in past 24

```
hours".
VALUE LABELS VitaminA 0"No" 1"Yes" .
EXECUTE.
```

```
*// Percentage who consumed foods rich in iron in past 24 hours 2.
COMPUTE Iron =0.
  IF ( MeatF = 1 ) Iron = 1.
VARIABLE LABELS Iron "Percentage who consumed foods rich in iron in past 24 hours".
VALUE LABELS Iron 0"No" 1"Yes" .
EXECUTE.
```

```
*****
```

```
** SELECT CHILDREN AGED 6-23 MONTHS **.
SELECT IF RANGE(child_age,6,23).
```

```
*****
```

```
/* CHECK - note that you may have to use complex surveys to match the results in the report */.
```

```
FREQUENCIES VARIABLES=child_age_grp Iron VitaminA
/ORDER=ANALYSIS.
```

```
*****
```

```
FOR 2016 DATA
```

```
** I USED A Stata FILE HERE (I DID NOT HAVE THE SPSS FILE FOR 2016 WHEN WRITING
THIS CODE).
```

```
GET
```

```
STATA FILE='C:\Users\User1\Desktop\FINAL FORMATIONS ON STATA - CS 2016\Census
1996 formations\ETHIOPIA DHS 2016\ETBR70FL.DTA'.
DATASET NAME DataSet1 WINDOW=FRONT.
```

```
*****
```

```
** GENERATE THE WEIGHT VARIABLE & WEIGHT DATA **.
COMPUTE weight = v005/1000000.
```

```
WEIGHT BY weight.
```

```
*****
```

```
** COMPLEX SURVEY VARIABLES (equivalent to Stata's svyset) **.
COMPUTE psu = v021.
COMPUTE strata = v023.
```

```
*****
```

```
** RENAME A FEW VARIABLES TO BE USE IN ANALYSIS **.
RENAME VARIABLES (v013 = age) (v106 = education) (v190 = wealth) (v025 = residence) (v024
```

= region).

\*\*\*\*\*

\*\* CREATING THE INDICATOR VARIABLE (DEPENDENT VARIABLE) \*\*.

\*\* CHILD AGE.

COMPUTE child\_age = b19.

RECODE child\_age (0 THRU 1 = 1) (2 THRU 3 = 2) (4 THRU 5 = 3) (6 THRU 8 = 4)  
(9 THRU 11 = 5) (12 THRU 17 = 6) (18 THRU 23 = 7) (ELSE = 0) INTO child\_age\_grp.

VARIABLE LABELS child\_age\_grp "Child's age in months - grouped".

VALUE LABELS child\_age\_grp 1 "0-1 months" 2 "2-3 months" 3 "4-5 months" 4 "6-8 months" 5  
"9-11 months" 6 "12-17 months" 7 "18-23 months".

EXECUTE.

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\* keep only if child is living with the mother.

SELECT IF b9 EQ 0.

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AGGREGATE

/OUTFILE=\* MODE=ADDVARIABLES OVERWRITE=YES

/BREAK v001 v002 v003

/hhsz 'Household size' = n

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SELECT IF bidx LE minbidx.

\*\*\*\*\*

/\*\* VARIABLES \*\*/.

\*// eggs, any meat, organ meat, fish/shellfish.

COMPUTE MeatF =0.

IF ( V414G=1 | V414H=1 | V414M=1 | V414N=1) MeatF = 1.

VALUE LABELS MeatF 0"No" 1"Yes" .

EXECUTE.

\*// fruits & vegetables rich in vitamin A.

COMPUTE Fruits =0.

IF ( V414I = 1 | V414J =1 | V414K=1 ) Fruits = 1.

VALUE LABELS Fruits 0"No" 1"Yes" .

EXECUTE.

\*// Percentage who consumed foods rich in vitamin A in past 24 hours1 .

COMPUTE VitaminA =0.

IF ( Fruits = 1 | MeatF ) VitaminA = 1.

```
VARIABLE LABELS VitaminA "Percentage who consumed foods rich in vitamin A in past 24
hours".
VALUE LABELS VitaminA 0"No" 1"Yes" .
EXECUTE.
```

```
*// Percentage who consumed foods rich in iron in past 24 hours 2.
COMPUTE Iron =0.
  IF ( MeatF = 1 ) Iron = 1.
VARIABLE LABELS Iron "Percentage who consumed foods rich in iron in past 24 hours".
VALUE LABELS Iron 0"No" 1"Yes" .
EXECUTE.
```

```
*****.
```

```
** SELECT CHILDREN AGED 6-23 MONTHS **.
SELECT IF RANGE(child_age,6,23).
```

```
*****.
```

```
/** CHECK - note that you may have to use complex surveys to match the results in the report **/.
```

```
FREQUENCIES VARIABLES= VitaminA Iron
/ORDER=ANALYSIS.
```

```
*****.
```