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Subject: Re: Exclusive Breastfeeding Variable Lesotho  
Posted by [zelalemth](#) on Wed, 22 May 2019 19:24:46 GMT  
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I used the following SAS code to reproduce results on Pakistan Demographic and Health Survey 2017-18 Table 11.3 Breastfeeding status by age.  
However, my results are slightly different from what is reported. I was wondering if I am missing something. Thank you for your help.

```
LIBNAME A "C:\Users\Desktop\Pakistan\";  
DATA WORK.PKKR71FL;  
SET A.PKKR71FL;
```

```
weight = (V005 / 1000000);  
cluster  = V021;  
strata = V023;
```

```
/** CHILD'S AGE IN MONTHS **/  
child_age=(V008-B3);
```

```
IF child_age < 24;
```

```
/** CHILD LIVES WITH MOTHER (RESPONDENT) **/  
IF b9 EQ 0;
```

```
/* REMOVING SCIENTIFIC NOTATION FROM RESULTS OUTPUT */  
PROC TEMPLATE;  
EDIT BASE.FREQ.CROSSTABFREQS;  
EDIT FREQUENCY;  
FORMAT=BEST12.;  
END;  
END;  
RUN;
```

```
/** FINDING THE YOUNGEST CHILD USING BIDX **/
```

```
PROC SORT DATA=WORK.PKKR71FL;  
BY V001 V002 V003;  
RUN;
```

```
PROC SQL;  
TITLE 'MINIMUM BIDX OR YOUNGEST CHILD';  
CREATE TABLE A.bidx_query AS  
SELECT V001,V002,V003,BIDX,M4,M38, MIN(BIDX) AS MINBIDX format=COMMA16.  
FROM WORK.PKKR71FL  
GROUP BY V001,V002,V003
```

```
ORDER BY V001,V002,V003;
RUN;
```

```
/* MERGING */
PROC SORT DATA=A.bidx_query;
  BY V001 V002 V003;
RUN;
```

```
PROC SORT DATA=WORK.PKKR71FL;
  BY V001 V002 V003;
RUN;
```

```
/** MERGING/COMBINING THE DATA FILES **/
```

```
DATA A.PKKR71FL_MERGED;
MERGE WORK.PKKR71FL (IN=x) A.bidx_query (IN=y);
  BY V001 V002 V003;
RUN;
```

```
DATA WORK.PKKR71FL_MERGED;
MERGE WORK.PKKR71FL (IN=x) A.bidx_query (IN=y);
  BY V001 V002 V003;
RUN;
```

```
/******
```

```
/** START HERE **/
```

```
DATA WORK.PKKR71FL_ExcIBF;
SET WORK.PKKR71FL_MERGED;
```

```
IF (BIDX <= MINBIDX);
```

```
FORMAT diet$29. feeding$26. exclusive_feed$6. none_breast$6. child_age_grp$5.
age_at_birth$8. birth_order$3.;
```

```
/** CREATE FEEDING VARIABLES **/
```

```
water=0;
liquids=0;
milk=0;
solids=0;
breast=0;
bottle=0;
```

```
/** TO DETERMINE IF CHILD IS GIVEN WATER, SUGAR WATER, JUICE, TEA OR OTHER **/
IF V409 IN(1:7) THEN water=1;
```

```
/** IF GIVEN OTHER LIQUIDS **/
```

```
Array liquids2 {9} $ v409a v410 v410a v412c v413 v413a v413b v413c v413d;
```

```
DO a=1 to 9;  
IF 1<=liquids2{a}<=7 THEN liquids=1;  
End;
```

```
/** IF GIVEN POWDER/TINNED milk, FORMULA OR FRESH milk **/  
Array milk2 {4} $ v411 v411a v412 v414p;
```

```
DO b=1 to 4;  
IF 1<=milk2{b}<=7 THEN milk=1;  
End;
```

```
/** IF STILL BREASTFEEDING **/  
IF M4 IN(95) THEN breast=1;
```

```
/** IF WAS EVER BOTTLE FED **/  
IF M38 IN(1) THEN bottle=1;
```

```
/** IF GIVEN ANY SOLID FOOD **/  
Array solids2 {26} $ V414A V414B V414C V414D V414E V414F V414G V414H V414I V414J  
V414K V414L V414M V414N V414O V414P V414Q V414R V414S V414T V414U V414V V414W  
V414X V414Y V414Z;
```

```
DO c=1 to 26;  
IF 1<=solids2{c}<=7 THEN solids=1;  
IF v412a EQ 1 OR v412b EQ 1 THEN solids=1;  
End;
```

```
/** FIRST INDICATOR VARIABLE **/  
diet=7;  
IF water=0 & liquids=0 & milk=0 & solids=0 THEN diet = "0. given only water";  
IF water=1 & liquids=0 & milk=0 & solids=0 THEN diet = "1. given only liquids";  
IF liquids=1 & milk=0 & solids=0 THEN diet = "2. given only milks";  
IF milk=1 & solids=0 THEN diet = "3. given only solids";  
IF milk=0 & solids=1 THEN diet = "4. given only milk and solids";  
IF milk=1 & solids=1 THEN diet = "5. not still breastfeeding";  
IF breast=0 THEN diet = "6. not now being breastfed";
```

```
/** EBF **/  
ebf=0;  
IF diet = "0. given only water" THEN ebf = 1;
```

```
/** SECOND INDICATOR VARIABLE (FEEDING) **/  
feeds=5;  
IF diet="6. not now being breastfed" THEN feeds = 0;  
IF diet="0. given only water" THEN feeds = 1;  
IF diet="1. given only liquids" THEN feeds = 2;
```

```
IF diet="2. given only milks" THEN feeds = 3;
IF diet="3. given only solids" THEN feeds = 4;
```

```
IF feeds=0 THEN feeding = "0. Not breastfeeding";
IF feeds=1 THEN feeding = "1. Exclusive breastfeeding";
IF feeds=2 THEN feeding = "2. +Water";
IF feeds=3 THEN feeding = "3. +Liquids";
IF feeds=4 THEN feeding = "4. +Other Milk";
IF feeds=5 THEN feeding = "5. +Solids";
LABEL feeding = "Breastfeeding status";
```

```
/** EXCLUSIVE BREASTFEEDING **/
```

```
exclusive_feed="0. No";
IF feeds IN(1) THEN exclusive_feed = "1. Yes";
LABEL exclusive_feed = "Exclusive breastfeeding";
```

```
/** NOT BREASTFEEDING **/
```

```
none_breast="0. No";
IF feeds IN(0) THEN none_breast = "1. Yes";
LABEL none_breast = "Not breastfeeding";
```

```
/** CREATING THE PREDOMINANTLY BREASTFEEDING VARIABLE **/
```

```
predom=0;
IF feeds IN(1:3) THEN predom = 1;
```

```
/** CHILD AGE GROUPS **/
```

```
IF child_age in(0:1) THEN child_age_grp = "00-01";
IF child_age in(2:3) THEN child_age_grp = "02-03";
IF child_age in(4:5) THEN child_age_grp = "04-05";
IF child_age in(6:8) THEN child_age_grp = "06-08";
IF child_age in(9:11) THEN child_age_grp = "09-11";
IF child_age in(12:17) THEN child_age_grp = "12-17";
IF child_age in(18:23) THEN child_age_grp = "18-23";
```

```
/** MATERNAL AGE AT BIRTH **/
```

```
agebirth = int((B3-V011)/12);
```

```
IF agebirth <20 THEN age_at_birth = "1. <20";
IF agebirth IN(20:34) THEN age_at_birth = "2. 20-34";
IF agebirth >=35 THEN age_at_birth = "3. 35-49";
```

```
/** BIRTH ORDER **/
```

```
birth_order1 = bord;
```

```
IF B0 IN(2) THEN birth_order1 = bord - 1;
IF B0 IN(3) THEN birth_order1 = bord - 2;
```

```
IF birth_order1 IN(1) THEN birth_order = "1";
```

```
IF birth_order1 IN(2:3) THEN birth_order ="2-3";
IF birth_order1 IN(4:5) THEN birth_order ="4-5";
IF birth_order1 >=6 THEN birth_order ="6+";
```

```
DROP a b c feeds agebirth birth_order1;
RUN;
```

```
PROC FREQ DATA=WORK.PKKR71FL_EXCLBF;
WEIGHT WEIGHT;
TITLE "Table 11.3 Breastfeeding status by age";
TABLE child_age_grp * feeding /NOCOL NOFREQ NOPERCENT;
RUN;
```

```
PROC FREQ DATA=WORK.PKKR71FL_EXCLBF;
WEIGHT WEIGHT;
TITLE "EXCLUSIVE BREASTFEEDING";
TABLE child_age_grp * exclusive_feed /NOCOL NOFREQ NOPERCENT;
RUN;
```

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