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Subject: Pregnancy outcomes in India DHS 2019-21

Posted by [lan01](#) on Fri, 12 Aug 2022 20:45:43 GMT

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Hello,

I am estimating pregnancy outcomes among reproductive women in India using IR file from the latest IDHS 2019-21. The Earlier IDHS 2015-16 provides vcal\_7 variable (IR file) to estimate the pregnancy outcome variable. Recently, IDHS 2019-21 round dropped vcal\_7 variable and provides vcal\_1 and vcal\_2 variables to estimate pregnancy outcome variable (B= Live Birth & M= Miscarriages in vcal\_1 and A= Abortion & S= Stillbirth in vcal\_2). Therefore, I estimated the pregnancy outcome variable using IDHS 2019-21 data (IR file), which didn't match with the Table 6.15 pregnancy outcome from the report (<https://dhsprogram.com/pubs/pdf/FR375/FR375.pdf>). My estimation reported 178,876 sample, while Table 6.15 reported 255,549 sample. Unfortunately, my estimation indicated that 76,673 sample were missing. Please find the attached file of my estimation of pregnancy outcomes (1= Live Birth, 2= Abortion, 3= Miscarriages, 4= Stillbirth) as well as Table 6.15.

Your timely response will be very helpful.

Kind regards,  
Monirujjaman Biswas

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#### File Attachments

- 1) [Pregnancy outcomes.jpeg](#), downloaded 497 times
  - 2) [Table 6.15.jpeg](#), downloaded 390 times
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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [Bridgette-DHS](#) on Tue, 16 Aug 2022 13:36:34 GMT

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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

I was not able to view the first jpeg you attached. I got an error message saying that the file was corrupted. Perhaps a different format would work. However, I think I know what you did and you do not need to re-post. I could open the second attachment, but there is no need to send attachments for the tables in reports--I can easily find them.

A major problem with your approach is that the M, A, and S you have found in vcal\_1 and vcal\_2 do not refer to miscarriages, abortions, and stillbirths. I will try to post the code to construct Table 6.15 in the next day or so. Hopefully I will be able to match it.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [lan01](#) on Wed, 17 Aug 2022 15:37:15 GMT

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Dear Tom Pullum,

Thank you so much for the response and giving your crucial time to go through my enquiry. I will be grateful for your assistance

Regards.

Monirujjaman Biswas

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [lan01](#) on Wed, 31 Aug 2022 13:05:28 GMT

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Dear Tom Pullum,

Hope you are doing well. I was not able to match the pregnancy outcomes (Table 6.15) using 2019-21 Indian Demographic Health Survey. Based on your last reply, I didn't get any updates regarding the code to estimate pregnancy outcomes among reproductive women in India. Your timely response will be very helpful.

Kind regards,

Monirujjaman Biswas

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [Bridgette-DHS](#) on Wed, 31 Aug 2022 13:32:40 GMT

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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

In the IR file, vcal\_1 gives terminations (T) but does not break them down by miscarriage, abortion, stillbirth (MAS). The file includes two variables that are relevant to the last pregnancy. One is v231, which gives the cmc of the last pregnancy termination that was not a live birth and s234, a survey-specific variable, which gives the MAS breakdown. The cmc of the last birth (B) is b3\_01. These variables (v231, s234, and b3\_01) should be sufficient to calculate table 6.15, which refers only to the most recent pregnancy in the past five years and gives the full BMAS breakdown. However, when I try to construct table 6.15, I do not get a match. The percentages are close but the N is very different. I am checking with other DHS staff but have not heard back from them. We will post a full response, with Stata code, as soon as we can.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [lan01](#) on Thu, 01 Sep 2022 17:36:27 GMT

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Dear Sir,

Thank you so much for sharing this information and giving your time to make it possible. Even I am so more worried about this specific indicator. Except for the adverse pregnancy outcomes as a part of my PhD objective, I have completed all other objectives using National Family Health Survey (NFHS) 4 and 5 datasets. Also, I estimated and matched the pregnancy outcome with the NFHS report (Table 6.15) using NFHS 4 data. But, the latest NFHS 5 has made a lot of modifications, including the estimation of pregnancy outcomes. Although I had constructed the indicator but failed to match the pregnancy outcome (both percentage and numbers) using NFHS-5 data. I will be grateful for your assistance

Kind Regards,  
Monirujjaman Biswas

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [Bridgette-DHS](#) on Fri, 02 Sep 2022 12:25:32 GMT

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Following is a response from DHS Research & Data Analysis Director, Tom Pullum:

I am checking with others here at DHS regarding the construction of table 6.15. I hope we will be able to post more soon.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [lan01](#) on Tue, 13 Sep 2022 15:07:41 GMT

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Dear Sir,

Hope you are doing well. Would you please guide me on how to construct pregnancy outcomes (table 6.15) using 2019-21 NFHS data?

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [Bridgette-DHS](#) on Fri, 16 Sep 2022 11:25:43 GMT

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Following is a response from DHS staff member, Tom Pullum:

Sorry for the delay in answering your initial question about the construction of Table 6.15 in the NFHS-5 report. This turned out to be a difficult question. Both Trevor Croft and I have looked into it.

Here is the title of the table: "Table 6.15. Pregnancy outcome Percent distribution of last pregnancies among women age 15-49 during the 5 years preceding the survey by pregnancy outcome, according to background characteristics, India, 2019-21". I have highlighted "last pregnancies".

The first issue is that this table was actually calculated with ALL pregnancies in the past 5 years, using a calendar variable called vcal\_7. The second issue is that vcal\_7 was not included in the IR file (IAIR7BFL.dta is the current version). DHS will add vcal\_7 to the next version of the IR file, but as it stands, but it is not possible to reconstruct table 6.15 with the IR file. In most surveys, vcal\_6 would be the calendar variable that specifies miscarriages, abortions, and stillbirths, but for this survey it was vcal\_7 and vcal\_7 was dropped.

It is possible to construct a table that does correspond with the table title, using b3\_01, v231, and s234 in the IR file. However, there is no such table in the report, and this is not a matter of matching a table in the report. There are some ambiguities in such a program, such as what do to when the most recent pregnancy was twins and one was born alive and the other was a stillbirth, so I will not attach it.

To summarize, the title and the numbers in Table 6.15 are not consistent with each other. It is not possible to replicate the table with the current version of the IR file.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21

Posted by [lan01](#) on Tue, 27 Sep 2022 10:49:06 GMT

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Dear Sir,

Thank you for the information, and sorry for replying delay. I really appreciate both of you, Sir, for giving your efforts as well as crucial time to solving this issue. Recently, DHS modified the IR data file (IAIR7DFL.dta as the current version) and added vcal\_7, SCAL and v019a variables. I have constructed Table 6.15 in the NFHS-5 report using the vcal\_7 variable, although it was not possible to match the numbers and percentages in Table 6.15 with this current version of the IR file. Below, I have attached the table of pregnancy outcomes. As you mentioned that table 6.15 is not possible to reconstruct with the IR file, would you please guide me on whether my estimation of pregnancy outcomes "last pregnancies" is correct or not, or I will have to modify it further?

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#### File Attachments

1) [Pregnancy Outcomes, NFHS 2019-21.png](#), downloaded 1428 times

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [Bridgette-DHS](#) on Tue, 27 Sep 2022 13:59:10 GMT  
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Following is a response from DHS staff member, Tom Pullum:

Thanks very much for YOUR work on Table 6.15 of the NFHS-5 final report! Thanks to you, the omission of vcal\_7 from the IR file was discovered, and a new version (7D) was issued. Glad you were able to get close to matching Table 6.15 with the new file (revising the table title to refer to ALL pregnancy terminations in the past 5 years). It does not surprise me that you did not get an exact match. We all have difficulty matching the NFHS-5 tables exactly, and it would not be worth trying to get an exact match.

Your distribution for the most recent pregnancy, consistent with the actual table title, matches almost exactly with what I get, and I think you can be satisfied with it.

Thanks again.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [lan01](#) on Thu, 29 Sep 2022 17:51:10 GMT  
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Thank you so much, Sir, for your Kindness, Help, and for paying attention to this issue. Without your efforts, it won't be possible, so thank you again.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [anjalibansal6693](#) on Wed, 17 Apr 2024 06:53:43 GMT  
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Dear Sir

I am trying to calculate the number if pregnancies for NFHS-5 data (Table 6.15) using the calendar data. First I created the event file, for which code is attached but the denominator here is number of episodes in the event file . So should i keep the denominator as pregnancies and exclude those who are currently pregnant, and then compute the percentage of termination from total pregnancies.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [Bridgette-DHS](#) on Wed, 17 Apr 2024 11:45:48 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

Table 6.15 includes all women, whether or not they are pregnant. They are classified according to the outcome of the most recent COMPLETED pregnancy. A current pregnancy, for women who are currently pregnant, is not included in the numerator. It is not used IN ANY WAY in the construction of the table.

This table is potentially confusing because the last column is titled "Number of pregnancies". A better title, in my opinion, would be "Number of women". Hope this helps.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [anjelibansal6693](#) on Thu, 18 Apr 2024 09:58:01 GMT  
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Thanks for the reply

I was trying to do match 6.15 table for India, but the percentage is matching with the shared code but the sample size is not matching.

The code :

```
quietly forvalues lcol=1/80 {  
  gen type_`lcol'=.  
  replace type_`lcol'=1 if substr(vcal_1,`lcol',1)=="B"  
  replace type_`lcol'=2 if substr(vcal_1,`lcol',1)=="T"  
  
  gen interval_`lcol'= .  
  replace interval_`lcol'= 0 if substr(vcal_1,`lcol'+1,1)!="P" & `lcol'+1<=80  
  replace interval_`lcol'= 1 if substr(vcal_1,`lcol'+1,1)=="P" & substr(vcal_1,`lcol'+2,1)!="P" &  
  `lcol'+2<=80  
  replace interval_`lcol'= 2 if substr(vcal_1,`lcol'+1,2)=="PP" & substr(vcal_1,`lcol'+3,1)!="P" &  
  `lcol'+3<=80  
  replace interval_`lcol'= 3 if substr(vcal_1,`lcol'+1,3)=="PPP" & substr(vcal_1,`lcol'+4,1)!="P" &  
  `lcol'+4<=80  
  replace interval_`lcol'= 4 if substr(vcal_1,`lcol'+1,4)=="PPPP" & substr(vcal_1,`lcol'+5,1)!="P" &  
  `lcol'+5<=80  
  replace interval_`lcol'= 5 if substr(vcal_1,`lcol'+1,5)=="PPPPP" & substr(vcal_1,`lcol'+6,1)!="P" &  
  `lcol'+6<=80  
  replace interval_`lcol'= 6 if substr(vcal_1,`lcol'+1,6)=="PPPPPP" & substr(vcal_1,`lcol'+7,1)!="P"  
  & `lcol'+7<=80  
  replace interval_`lcol'= 7 if substr(vcal_1,`lcol'+1,7)=="PPPPPPP" &  
  substr(vcal_1,`lcol'+8,1)!="P" & `lcol'+8<=80  
  replace interval_`lcol'= 8 if substr(vcal_1,`lcol'+1,8)=="PPPPPPPP" &  
  substr(vcal_1,`lcol'+9,1)!="P" & `lcol'+9<=80
```

```
replace interval_`lcol`= 9 if substr(vcal_1,`lcol'+1,9)=="PPPPPPPPP" &
substr(vcal_1,`lcol'+10,1)~="P" & `lcol'+10<=80
replace interval_`lcol`=10 if substr(vcal_1,`lcol'+1,10)=="PPPPPPPPPP" &
substr(vcal_1,`lcol'+11,1)~="P" & `lcol'+11<=80
replace interval_`lcol`=11 if substr(vcal_1,`lcol'+1,11)=="PPPPPPPPPPP" &
substr(vcal_1,`lcol'+12,1)~="P" & `lcol'+12<=80
}
```

```
reshape long type_ interval_, i(v001 v002 v003) j(col)
rename * _ *
```

```
drop if type==.
label variable type "Type of pregnancy outcome"
label define type 1 "Live birth" 2 "Termination"
label values type type
```

```
ta type [iweight=v005/1000000]
```

---

Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [anjelibansal6693](#) on Thu, 18 Apr 2024 11:38:19 GMT  
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Dear Sir

Also I have tried the attached code. Please help with the code for Table 6.13 for India DHS , 2019-20 as it is not matching with the report.

Also I have one doubt should we restrict the calendar to only 5 years as in the Table heading of 6.13 is Percentage of women age 15-49 who have ever had a non-live birth and have had a non-live birth in the 5 years preceding the survey, and percentage of pregnancies (not including current pregnancies) that ended in a non-live birth in the 5 years preceding the survey by current age of mother, India, 2019-21

#### File Attachments

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- 1) [Pregnancy Outcome.do](#), downloaded 253 times
  - 2) [Screenshot 2024-04-18 170737.png](#), downloaded 361 times
- 

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [Bridgette-DHS](#) on Thu, 18 Apr 2024 12:41:48 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

In August of 2022 I (and others at DHS) put a lot of effort into trying to match table 6.15, but were unsuccessful. The n for this table is much too high. We cannot put any more effort into it. Perhaps you can ask IIPS.

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Subject: Re: Pregnancy outcomes in India DHS 2019-21  
Posted by [Bridgette-DHS](#) on Thu, 18 Apr 2024 20:41:11 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

The Stata program pasted below matches columns 1-3 of table 6.13, but not columns 4-5. I hope another user can match columns 4-5. I cannot answer other questions about the NFHS's.

\* Attempt to match table 6.13 in the final report on the NFHS-5

\* mbi: months as months before interview. mbi=col-v018

\* cmc: months in century month codes. cmc=v017+80-col

use "...IAIR7EFL.DTA" , clear

keep v001 v002 v003 v005 v008 v013 v017 v018 v231 vcal\_1

\* Keep variables needed for table 6.13

gen monthsago=v008-v231 if v231<9997

gen ever=0

replace ever=1 if monthsago<.

gen past5years=0

replace past5years=1 if monthsago<60

\* columns 1, 2, and 3 of table 6.13

tab v013 ever [iweight=v005/1000000], row

tab v013 past5years [iweight=v005/1000000], row

gen B=0

gen T=0

quietly forvalues lcol=1/80 {

replace B=B+1 if substr(vcal\_1,`lcol',1)=="B" & (`lcol'-v018)<60

replace T=T+1 if substr(vcal\_1,`lcol',1)=="T" & (`lcol'-v018)<60

}



tab B T

collapse (sum) B T [iweight=v005/1000000], by(v013)

gen BT=B+T

gen col4=100\*T/BT

\* columns 4 and 5 of table 6.13; not a match

list, table clean

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