## Subject: Out of pocket expenditure per delivery calculation Posted by Lily on Tue, 20 Dec 2022 07:16:07 GMT

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I am facing problem in calculating the "out of pocket expenditure" per delivery in "NFHS 5 for India" using STATA. Values from report is not matching. Could I be helped with the codes.

Subject: Re: Out of pocket expenditure per delivery calculation Posted by Janet-DHS on Thu, 22 Dec 2022 21:56:32 GMT View Forum Message <> Reply to Message

Following is a response from DHS staff member Tom Pullum:

When users have a question about matching something in a DHS report, we need to know specifically which table they are trying to match. Which table in the NFHS-5 final report are you looking at?

Subject: Re: Out of pocket expenditure per delivery calculation Posted by Lily on Fri, 23 Dec 2022 06:55:37 GMT

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Sorry for not specifying the needful details. I was talking about the average delivery cost in public health facility which is provided in table 8.20 of NFHS-5 INDIA Report.

Subject: Re: Out of pocket expenditure per delivery calculation Posted by Janet-DHS on Fri, 13 Jan 2023 15:42:05 GMT View Forum Message <> Reply to Message

Following is a response from DHS staff member Tom Pullum:

Sorry for the delay with this response. Table 8.20 in the NFHS-5 report is a difficult table to match. I have prepared a Stata program that matches the n's and comes close to the means. I have found some typos in the data. There are probably more typos and other data quality issues. We cannot put any more time into this table.

\* do e:\DHS\India\table\_8pt20\_do\_KR\_12Jan2023.txt

Program to replicate Table 8.20 in the NFHS-5 report

The average out-of-pocket cost paid for delivery for the most recent live birth among women age 15-49 who had a live birth in the 5 years preceding the survey that was delivered in a health facility.

Out-of-pocket cost paid for the delivery includes the cost of transportation, the hospital stay, tests, medicines, and other costs.

The components are these five variables: s451 and s452a, b, c, d.

This program works off the KR file rather than the IR file. Select one child per woman and then the analysis is equivalent to using women as units.

Rule 1: Calculate the total as the sum of the 5 components if they are all <99998

Rule 2: If any of the components are 99998, and s454 is NOT 99998, use s454 as the total

Rule 3: If all the components are 99998 and s454 is 99998, ignore the case

Numbers in the table to match, bottom row

public 3,245 Rs private 24,663 Rs any 10,035 Rs cases 157,552

Row for Jain (v130==6, only 272 weighted cases), can use for testing

public 7,601 Rs private 32,133 Rs any 26,955 Rs

\*/

program define make\_data

use "C:\Users\26216\ICF\Analysis - Shared Resources\Data\DHSdata\IAKR7DFL.DTA", clear

\* Save the variables needed keep v0\* v130 v201 b\* m15\* s116 s45\*

gen mo\_age=1 replace mo\_age=2 if b3-v011>=20\*12 replace mo\_age=3 if b3-v011>=35\*12 label variable mo\_age "Mother's age at birth" label define mo age 1 "<20" 2 "20-34" 3 "35+" label values mo age mo age

```
gen birth_order=bord
replace birth_order=2 if bord>=2
replace birth_order=3 if bord>=4
label variable birth_order "Birth order"
label define birth order 1 "1" 2 "2-3" 3 "4+"
label values birth_order birth_order
*tab birth order
gen religion=v130
replace religion=7 if v130>=7
label variable religion "Religion"
label define religion 1 "Hindu" 2 "Muslim" 3 "Christian" 4 "Sikh" 5 "Buddhist/Neo-Buddhist" 6 "Jain"
7 "Other"
label values religion religion
*tab religion
gen caste=s116
replace caste=4 if caste==.
label variable caste "Caste/tribe"
label define caste 1 "Scheduled caste" 2 "Scheduled tribe" 3 "Other backward class" 4 "Other" 8
"Don't know"
label values caste caste
*tab caste
* Construct recodes for facility type and cost for the births in the past 5 years
      factype=1
replace factype=2 if m15>=20
replace factype=3 if m15>=30
replace factype=9 if m15>=40
replace factype=. if m15==.
label define factype 1 "Home" 2 "Public" 3 "Private" 9 "Other"
label values factype factype
      factype2or3=0
replace factype2or3=1 if factype==2 | factype==3
* Change the five components to more convenient variable names
gen cost1=s451
gen cost2=s452a
gen cost3=s452b
gen cost4=s452c
gen cost5=s452d
```

\* Find the most recent birth with factype2or3 equal to 1

tab factype bidx [iweight=v005/1000000],m

\*tab mo\_age

```
* Reduce to births with factype2or3=1
keep if factype2or3==1
* To match the n's in the table, select if bidx=1
* This is not necessarily following the title of the table. However, it matches the n's.
keep if bidx==1
save IAtemp.dta, replace
end
program define make_frequencies
* This routine gives the n's
use IAtemp.dta, clear
tab1 factype mo_age birth_order v025 religion caste [iweight=v005/1000000]
* The distribution of birth_order does not match the table; don't know why
* I have not included the education covariate
end
program define make_table
use IAtemp.dta, clear
* calculate the sum of the components
gen total=0
 forvalues lc=1/5 {
 replace total=total+cost`lc' if cost`lc'<99998
replace total=99998 if cost1==99998 | cost2==99998 | cost3==99998 | cost4==99998 |
cost5==99998
* Rule: use s454 as a default if it is coded with a valid value
* Otherwise use the sum of the components IF no components are 99998
      cost=s454 if factype2or3==1
gen
replace cost=total if factype2or3==1 & (s454==. | s454==99998) & (total ~=. & total~=99998)
```

```
* Optional: find and correct typos that should be 99998
* tab cost
replace cost=99998 if cost==99990
replace cost=99998 if cost==99988
replace cost=99998 if cost==99995
* Drop if cost=99998
replace cost=. if cost==99998
gen
      pub_cost=.
replace pub_cost=cost if factype==2
gen
      priv_cost=.
replace priv_cost=cost if factype==3
      pubpriv_cost=.
gen
replace pubpriv_cost=cost if factype2or3==1
local lcovars mo age birth order v025 religion caste
foreach Ic of local Icovars {
tabstat *_cost [fweight=v005], statistics(mean) by(`lc')
* Can save the data file
end
* Execution begins here
* Specify a workspace
cd e:\DHS\DHS data\scratch
* Do not need to rerun "make data" after the data file has been constructed
make_data
make_frequencies
make_table
```

File Attachments

1) table\_8pt20\_do\_KR\_12Jan2023.txt, downloaded 244 times

Subject: Re: Out of pocket expenditure per delivery calculation Posted by Lily on Wed, 29 Mar 2023 12:03:21 GMT

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Thanks for sharing the above codes.

I tried these codes but values don't match the reports though N=157552 matches, the mean OOPE through this codes are:

Public facility=3047.98 Private facility =24672.19 Any facility=9489.873 N= 157552

There was mention of typos and difficulty in matching the reports values. What is the possible way out. I need to match values for my study to proceed further in my study. I tried this codes in similar way for NFHS4 dataset as well. There also the values don't match. Looking forward for kind response as to how it can obtained. Thanks you.

Subject: Re: Out of pocket expenditure per delivery calculation Posted by Janet-DHS on Thu, 30 Mar 2023 19:52:32 GMT

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Following is a response from DHS staff member Tom Pullum:

I am going to try again to get a better match. Will post progress on the forum.

Subject: Re: Out of pocket expenditure per delivery calculation Posted by Lily on Mon, 03 Apr 2023 06:17:41 GMT

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Thanks. I am looking forward to hearing from you.