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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.

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Subject: Re: Out of pocket expenditure per delivery calculation

Posted by [Janet-DHS](#) on Thu, 22 Dec 2022 21:56:32 GMT

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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?

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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.

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Subject: Re: Out of pocket expenditure per delivery calculation

Posted by [Janet-DHS](#) on Fri, 13 Jan 2023 15:42:05 GMT

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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

```
*tab 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
```

```
gen 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
```

```
gen 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
```

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

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

\* 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 lAtemp.dta, replace

end

\*\*\*\*\*

program define make\_frequencies

\* This routine gives the n's

use lAtemp.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 lAtemp.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

gen cost=s454 if factype2or3==1

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
```

```
gen    pubpriv_cost=.
replace pubpriv_cost=cost if factype2or3==1
```

```
local lcovars mo_age birth_order v025 religion caste
foreach lc of local lcovars {
  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 234 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 be obtained. Thanks you.

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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.

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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.

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