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Subject: Calculation of OOPE for delivery care using NFHS-4 , India data

Posted by [jpp\\_pradhan](#) on Mon, 19 Mar 2018 12:06:02 GMT

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Dear Sir,

Greetings!!

I was planning to estimate OOPE for delivery care at the national and state level. Following steps, I have followed to estimate the same. However, the results are not matching with the figure given in the report (Table 8.20).

step 1: SELECT IF midx=1 & facility=1 (institutional delivery). [N=149770: matching with the report]

Step 2: Selected valid cases for the analysis.

compute valid=0.

if (s448aa=99998 & s448ba =99998 & s448bb=99998 & s448bc=99998 & s448bd=99998 & s449=99998) valid=1. If valid=0, considered for the analysis.

Step 3: computed delivery cost using the following syntax.

recode s448aa s448ba s448bb s448bc s448bd s449 (99998=0).

recode s448aa s448ba s448bb s448bc s448bd s449 (sysmis=0).

compute deliverycost= (s448aa+ s448ba+ s448bb+ s448bc+ s448bd+ s449).

Step 4: Estimated the mean OOPE

deliverycost

valid Mean N Std. Deviation

.00 8430.3232 144942 19334.84727

1.00 .0000 4828 .00000

Total 8158.5767 149770 19078.86061

for the valid cases (N=144942), the mean OOPE is: Rs 8430.

However, in Table 8.20 of India report, the mean OOPE is Rs. 7938.

Kindly advised how to match this figure.

Thank you and look forward to your kind response.

Warm regards,  
Jalandhar

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Subject: Re: Calculation of OOPE for delivery care using NFHS-4 , India data  
Posted by [Hanna-DHS](#) on Tue, 20 Mar 2018 17:53:43 GMT  
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From Data Processing Specialist, Hanna Useem:

Dear Jalandhar,

In Table 8.20, the calculation to estimate OOPE for delivery care does not include transport, S448AA. It is calculated by S448BA (hospital stay), S448BB (tests), S448BC (medicines), and S448BD (other).

Best,

Hanna

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Subject: Re: Calculation of OOPE for delivery care using NFHS-4 , India data  
Posted by [Lily](#) on Wed, 29 Mar 2023 11:33:03 GMT  
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As said above the calculation to estimate OOPE for delivery care does not include transport, S448AA but the footnote at table 8.20 in nfhs 4 report clearly mentions "Out-of-pocket cost paid for the delivery includes the cost of transportation, the hospital stay, tests, medicines, and other costs "

I simply tried to match the reports and excluding transportation, the mean OOPE :

Public facility=3130.621

Private facility =16513.15

Any facility=7706.62

N= 149768

And including the transportation variable, values are:

Public facility=3508.1

Private facility =17528.12

Any facility=8297.631

N= 149768

In either way , the values doesn't match the Nfhs 4 Report :

Public facility=3197

Private facility =16522

Any facility=7935

N= 149768

I used similar codes as mentioned in this thread:

[https://userforum.dhsprogram.com/index.php?t=tree&th=12320&goto=25945&#msg\\_25945](https://userforum.dhsprogram.com/index.php?t=tree&th=12320&goto=25945&#msg_25945)

However I couldn't match values in any way for both NFHS 4 and NFHS 5. Any suggestions w.r.t. this will be of great help. Thank you in advance.

Subject: Re: Calculation of OOPE for delivery care using NFHS-4 , India data  
Posted by [Lily](#) on Wed, 29 Mar 2023 11:48:56 GMT  
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I have attached codes to this post which I used and was shared by DHS forum members in the earlier thread.

Home » Topics » Reproductive Health » Out of pocket expenditure per delivery calculation

### File Attachments

1) [table\\_8pt20\\_do\\_KR\\_12Jan2023.txt](#), downloaded 139 times

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Subject: Re: Calculation of OOPE for delivery care using NFHS-4 , India data  
Posted by [Bridgette-DHS](#) on Wed, 29 Mar 2023 13:04:11 GMT  
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Following is a response from Senior DHS staff member, Tom Pullum:

Hi Lily--Thanks very much for posting this. However, the program I posted yesterday (NFHS5\_table\_8pt20\_KR\_28Mar2023.txt) was almost exactly just a re-titled copy of that 12Jan2023 program. The main change, apart from the title, is that I inserted a corrected calculation of the birth order of the child. The calculation of birth order in the 12Jan2023 version did not match the table, but the 28Mar2023 version does match that. There were no changes to the calculation of OOPE.

Again, if anyone can match the OOPE numbers in table 8.20 in either the NFHS-4 or -5 reports, please let us know.

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Subject: Re: Calculation of OOPE for delivery care using NFHS-4 , India data  
Posted by [anjalibansal6693](#) on Wed, 13 Sep 2023 05:50:51 GMT  
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Hey Lily

Using the above code we are not able to match the Out of pocket expenditure for India, I have used the syntax and getting a difference of 500 rs, can you help with that

```
gen Delivecost = s454 if inrange(s454,0,99995)
foreach var of varlist s452a s452b s452c s452d {
  gen `var'_new = `var' if inrange(`var',1,99990)
}
egen cost_other = rowtotal( s452a_new s452b_new s452c_new s452d_new)
replace cost_other=. if s452a_new==. & s452b_new==. & s452c_new==. & s452d_new==.
gen s451_new = s451 if inrange( s451 ,1,99990)
egen total_cost = rowtotal( Delivecost cost_other s451_new)
```

```
replace total_cost = . if Delivecost==. & cost_other==. & s451_new==.  
ta total_cost if bidx==1
```

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