
Subject: Re: Inconsistencies between recode number of deaths and birth history

Posted by [Bridgette-DHS](#) on Fri, 16 Dec 2022 13:19:39 GMT

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

Apologies for checking the wrong survey! I have revised that Stata program to list the inconsistent cases and loop through the IR files from the five India surveys. I will paste it below. It's pretty general and could be used on any DHS surveys. I use a prefix "v" for subtotals coming from v202-v207 and a prefix "b" for subtotals coming from the b4_* and b5_* variables. The number of children "living with the mother" could be checked against the number with b9_* equal to 0.

There are no inconsistent cases in the NFHS-2, -3, and -5 surveys. There is one inconsistent case in NFHS-1, and it is easily found, because it is the only case with v201=. . In NFHS-4, I find 128 cases with 2 inconsistencies and 21 cases with 4 inconsistencies. I suspect that the inconsistencies occur in pairs, for example with a difference of +1 for sons alive and -1 for sons dead. I did not take the time to check that.

Such inconsistencies should not occur. If you need to give priority to one over the other, the b variables should be more reliable. In the interview, there is probing during the collection of the birth histories. The totals and subtotals in v201-v207 should be forced to agree with the b variables. Thank you for identifying this issue with the NFHS-4.

* this program checks v202-v207 against the birth histories

```
program define check_subtotals
```

```
keep v024 v001 v002 v003 v20* b4_* b5_*  
rename *_0* *_*
```

```
gen vsons_alive=v202+v204  
gen vdtrs_alive=v203+v205  
gen vsons_died=v206  
gen vdtrs_died=v207
```

```
gen bsons_alive=0  
gen bdtrs_alive=0  
gen bsons_died=0  
gen bdtrs_died=0
```

```
* Compare the maximum observed value of v201 with the maximum allowed value of the birth  
history index.  
summarize v201
```

```

scalar sbstop=0
forvalues li=15/25 {
  if sbstop==0 {
    capture confirm numeric variable b4_`li', exact
    if _rc>0 {
      scalar sbstop=1
      scalar sbmax=`li'-1
    }
  }
}

```

```

scalar list sbmax
local lbmax=sbmax

```

```

quietly forvalues li=1/`lbmax' {
  scalar si=`li'
  replace bsons_alive=bsons_alive+1 if b4_`li'==1 & b5_`li'==1
  replace bdtrs_alive=bdtrs_alive+1 if b4_`li'==2 & b5_`li'==1
  replace bsons_died=bsons_died+1 if b4_`li'==1 & b5_`li'==0
  replace bdtrs_died=bdtrs_died+1 if b4_`li'==2 & b5_`li'==0
}

```

```

*tab vsons_alive bsons_alive
*tab vdtrs_alive bdtrs_alive
*tab vsons_died bsons_died
*tab vdtrs_died bdtrs_died

```

```

gen d1=vsons_alive-bsons_alive
gen d2=vdtrs_alive-bdtrs_alive
gen d3=vsons_died -bsons_died
gen d4=vdtrs_died -bdtrs_died

```

```

tab1 d1 d2 d3 d4

```

```

gen D=0
label variable D "case has D inconsistencies"
replace D=D+1 if d1~=0
replace D=D+1 if d2~=0
replace D=D+1 if d3~=0
replace D=D+1 if d4~=0

```

```

sort v024 v001 v002 v003

```

```

end

```

```

*****
*****
*****

```

* Execution begins here

local lpcs "23 42 52 74 7D"

```
foreach lpc of local lpcs {  
  scalar spv=`lpc`  
  use "...\\AIR`lpc`FL.dta", clear  
  quietly check_subtotals  
  scalar list spv  
  tab D if D>0  
  list v024 v001 v002 v003 v201 *alive *died if D>0, table clean abbrev(11)  
}
```