Subject: Cambodia mortality/morbidity rates due to accidents: calculation issues
Posted by milo1984 on Fri, 20 May 2016 07:13:45 GMT
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Hello,

I am working with the Cambodian DHS surveys from 2000, 2005, 2010 and 2014, and trying to calculate the mortality and morbidity rates for children due to accidental injuries. I have two questions relating to issues I am having.

1) I wanted to calculate the mortality rate due to accidents across different surveys, disaggregated by age/gender etc, and I therefore thought I could just use the individual recode file (PR) variables ("sh51_1/2/3 - death due to accident") to work out the number of deaths due to accidents within the sampled population, along with other individual-level data on age/gender etc to disaggregate the rates.

However, the individual recode (PR) variables for accident-caused-deaths ("sh51_1/2/3 - death due to accident") are empty in ALL surveys, i.e. there is no data in them, not even numbers of missing records. This is not the case for the same variables in the household recodes (HR) for all surveys though ("sh51_1/2/3 - death due to accident"), where numbers of deaths due to accidents appear to be recorded.

I assume I'm completely misunderstanding how to go about calculating death rates due to accidents, but can anyone please help me understand how to do this. e.g. will I need to somehow link the numbers in the HR recode to the PR recode, and why are the sh57_1/2/3 variables even included in the PR recodes when they contain no data?

2) When looking at morbidity (injuries) due to accidents the numbers don't match in the HR and PR recode files in all surveys, so again I'm unsure how to go about calculating rates, which I again had initially planned to do just using the relevant variables in the PR recode files.

e.g.

Cambodian DHS 2014

HR recode - sh50 "person in household accidentally killed or injured in last 12 months (rech3)": number of injuries in past 12 months = 0 = 14654, 1 = 1064, 2 = 101, 3 = 5.
Total is therefore = 1064 + (2*101) + (3*5) = 1281.

PR recode - sh50 "person in household accidentally killed or injured in last 12 months (rech3)": number of injuries in past 12 months = 0 = 67970, 1 = 5513, 2 = 603, 3 = 32.
Total is therefore = 5513 + (2*603) + (3*32) = 6815.

So the overall number of injuries in the past 12 months according to the HR recode is 1281, but according to the PR recode is 6815: clearly a huge difference, and I don't understand why this is the case! Again I assume I have completely misunderstood something obvious here rather than there being a genuine discrepancy, but can anyone help me understand the cause, and so how to go about correctly calculating the injury rates?

Thank you