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Subject: Re: Aggregating data from facility to Province level

Posted by [spet2094](#) on Tue, 16 Mar 2021 23:39:33 GMT

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Dear Tom

Thank you very much for your response on refrigeration and for sharing the report.

I have a follow up question regarding the number of health care workers per 10,000 population.

I found two points of guidance on this:

1. (The number of health workers at a given time in a given country or region / Total population for the same geographical area)

The ratio can be adjusted to per 10,000 population by multiplying the numerator and denominator by the same factor required for the denominator to equal 10,000.

and

2. For the SARA indicator:  $N \text{ per } 10,000 \text{ population} / 23 * 100 \text{ (max.100)}$

So I think this means that the first indicator can only be calculated at the admin level seeing as in most cases we do not know the population that the health facility itself serves. Therefore if we were to map health facility provision, for individual facilities, it would make most sense to map the raw numbers of total health care workers per facility. But for aggregation to health zone level, we would sum the health care workers across facilities and divide by the population of the health zone. So e.g. if there were a total of 20 healthcare workers over a health zone of 20,000 we would do  $20 * .5 / 20,000 * .5$  ie. 0.001 HCW for 10,000 population. Is that correct?

What if we were to want to know the average number of health care workers (HCW) per health zone. For that would we add any facility weighting?

Then finally, for the SARA indicator, on the understanding that 23 is the metric for the minimum number of HCW per 10,000 population according to WHO standards, is it correct to say that the indicator is telling us the percentage of the target number of HCW per 10,000 population that the health zone/admin area is achieving?

Thanks again for your response

Regards

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