
Subject: HAZ, WAZ, and WHZ calculation to measure stunting, wasting, and underweight of children

Posted by [farihakabir148](#) on Tue, 12 Mar 2024 11:43:55 GMT

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I intend to calculate the HAZ, WAZ, and WHZ calculation to measure stunting, wasting, and underweight of children using the BDHS (2017-2018) dataset. I am confused as to which method should I use zanthro? I calculated using the following code:

Table 1: Summary statistics of undernutrition in children aged below 5 years

Dataset: Personal Recode (PR)

use "C:\Users\Asus\Downloads\Fariha Kabir Masters Thesis\DHS_BD_2018_Personal Recode.DTA"

set more off

keep if hv103==1 & hc1<=59

tab hc1

gen swt= hv005/1000000

order hc70 hc71 hc72 swt hc1

br hc70 hc71 hc72

gen haz= hc70/100

gen waz= hc71/100

gen whz= hc72/100

order hc70 hc71 hc72 swt hc1 haz waz whz

br hc70 hc71 hc72 haz waz whz

sum haz waz whz

replace haz=. if haz>6

replace waz=. if waz>6

replace whz=. if whz>6

sum haz waz whz

gen stunting=1 if haz<-2

replace stunting=0 if haz>=-2

replace stunting=. if haz==.

label define stunting 1 "Stunted" 0 "Non-Stunted", replace

label value stunting Stunting

tab stunting

tab stunting [iweight= swt]

gen wasting=1 if whz<-2

replace wasting=0 if whz>=-2

replace wasting=. if whz==.

label define wasting 1 "Wasted" 0 "Non-wasted", replace

label value wasting Wasting

tab wasting

```
tab wasting [iweight= swt]
```

```
gen underweight=1 if waz<-2
```

```
replace underweight=0 if waz>=-2
```

```
replace underweight=. if waz==.
```

```
label define underweight 1 "Underweight" 0 "Non- underweight", replace
```

```
label value underweight Underweight
```

```
tab underweight
```

```
tab underweight [iweight= swt]
```

```
codebook stunting wasting underweight
```

If this is incorrect can you please provide the correct code? Which method should I use? If I want to use zanthro could you please give me the code using zanthro for these measurements. Your guidance will be much appreciated.

Subject: Re: HAZ, WAZ, and WHZ calculation to measure stunting, wasting, and underweight of children

Posted by [Bridgette-DHS](#) on Mon, 18 Mar 2024 11:50:08 GMT

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

There are different ways to do the same thing. Your commands will work ok, except that you have not correctly constructed the legal ranges. They are as follows:

The haz must be between -6 and +6

The waz must be between -6 and +5

The whz must be between -5 and +5.

In the label for wasting, you have a typo (an "e" in place of "a").

Good luck with your research!
