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Subject: Re: Diastolic measure for India DHS 2019-21  
Posted by [Shireen-DHS](#) on Wed, 07 Sep 2022 13:46:58 GMT  
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Hello,

Using the IAPR7CFL.dta file the following Stata code will get you a close match to the percentage (less than 1 percentage point difference from table) and a match with the denominator. This code has a different way to get the valid measurements than what you used in your code.

Thank you.

Best,

Shireen Assaf  
The DHS Program

\*Stata code:

```
gen bp_w=.
```

\*each measurement is valid pair if sys and dia >20 and <299

```
gen valid3 = 0
replace valid3 = 1 if (shb29s>20 & shb29s<299 & shb29d>20 & shb29d<299)
gen valid2 = 0 if valid3==0
replace valid2 = 1 if (shb25s>20 & shb25s<299 & shb25d>20 & shb25d<299) & valid3==0
gen valid1 = 0 if valid2==0 & valid3==0
replace valid1 = 1 if (shb18s>20 & shb18s<299 & shb18d>20 & shb18d<299) & valid2==0 &
valid3==0
* 3 valid measurements
gen validbp = 0
replace validbp =1 if (shb18s>20 & shb18s<299 & shb18d>20 & shb18d<299) ///
& (shb25s>20 & shb25s<299 & shb25d>20 & shb25d<299) ///
& (shb29s>20 & shb29s<299 & shb29d>20 & shb29d<299)
* if 3 valid measurements, take average of last two
gen sys = 0
replace sys = ((shb25s+shb29s)/2) if validbp==1
* if < 3 valid measurements, take last valid measurement
if sys== 0 {
    replace sys = shb29s if valid3==1
}
if sys==0{
    replace sys = shb25s if valid2==1
}
if sys==0 {
    replace sys = shb18s if valid1==1
}
gen dia = 0
```

```
replace dia = ((shb25d+shb29d)/2) if validbp==1
* if < 3 valid measurements, take last valid measurement
if dia==0 {
    replace dia = shb29d if valid3==1
}
if dia==0{
    replace dia = shb25d if valid2==1
}
if dia==0 {
    replace dia = shb18d if valid1==1
}
```

\*gen variable to exclude women with no valid bp measurements  
gen validany = 0  
replace validany = 1 if valid1>0 | valid2>0 | valid3>0

\*bp for women - restricted to age 15-49, women,  
replace bp\_w=0 if validany==1  
replace bp\_w = 1 if ((sys>=140 | dia>=90) | shb21==1) & validany==1  
replace bp\_w =. if hv104 !=2  
replace bp\_w=. if hv105<15 | hv105>95  
cap label var bp\_w "Women who have hypertension"

gen wt=hv005/1000000

tab bp\_w [iw=wt]  
tab bp\_w if hv105<50 [iw=wt]

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