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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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