

Following could be the correct code of Stata:

```
g unmet=.
```

```
**Set unmet need to NA for unmarried women if survey only included ever-married women or only collected necessary data for married women
```

```
replace unmet=98 if v502!=1 & (v020==1 | substr(v000,3,1)=="2" | v000=="IA4" )
```

```
** CONTRACEPTIVE USERS - GROUP 1
```

```
* using to limit if wants no more, sterilized, or declared infecund
```

```
recode unmet . =4 if v312!=0 & (v605>=5 & v605<=7)
```

```
* using to space - all other contraceptive users
```

```
recode unmet . =3 if v312!=0
```

```
**PREGNANT or POSTPARTUM AMENORRHEIC (PPA) WOMEN - GROUP 2
```

```
* Determine who should be in Group 2
```

```
* generate time since last birth
```

```
g tsinceb=v222
```

```
* generate time since last period in months from v215
```

```
g tsincep=int((v215-100)/30) if v215>=100 & v215<=190
```

```
replace tsincep = int((v215-200)/4.3) if v215>=200 & v215<=290
```

```
replace tsincep = (v215-300) if v215>=300 & v215<=390
```

```
replace tsincep =(v215-400)*12 if v215>=400 & v215<=490
```

```
* initialize pregnant or postpartum amenorrheic (PPA) women
```

```
g pregPPA=1 if v213==1 | m6_1==96
```

```
* For women with missing data or "period not returned" on date of last menstrual period, use information from time since last period
```

```
* if last period is before last birth in last 5 years
```

```
replace pregPPA=1 if (m6_1==. | m6_1==99 | m6_1==97) & tsincep>tsinceb & tsinceb<60 & tsincep!=. & tsinceb!=.
```

```
* or if said "before last birth" to time since last period in the last 5 years
```

```
replace pregPPA=1 if (m6_1==. | m6_1==99 | m6_1==97) & v215==995 & tsinceb<60 & tsinceb!=.
```

```
* select only women who are pregnant or PPA for <24 months
```

```
g pregPPA24=1 if v213==1 | (pregPPA==1 & tsinceb<24)
```

```
* Classify based on wantedness of current pregnancy/last birth
```

```
* current pregnancy
```

```
g wantedlast = v225
```

```
* last birth
```

```
replace wantedlast = m10_1 if (wantedlast==. | wantedlast==9) & v213!=1
```

```
* no unmet need if wanted current pregnancy/last birth then/at that time
```

```
recode unmet . =7 if pregPPA24==1 & wantedlast==1
```

```
* unmet need for spacing if wanted current pregnancy/last birth later
```

```
recode unmet . =1 if pregPPA24==1 & wantedlast==2
```

```
* unmet need for limiting if wanted current pregnancy/last birth not at all
```

recode unmet . = 2 if pregPPA24 == 1 & wantedlast == 3

\* missing = missing

recode unmet . = 99 if pregPPA24 == 1 & (wantedlast == . | wantedlast == 9)

**\*\*NO NEED FOR UNMARRIED WOMEN WHO ARE NOT SEXUALLY ACTIVE**

\* determine if sexually active in last 30 days

g sexact = 1 if v528 >= 0 & v528 <= 30

\* older surveys used code 95 for sex in the last 4 weeks

recode sexact . = 1 if v528 == 95

\* if unmarried and not sexually active in last 30 days, assume no need

recode unmet . = 97 if v502 != 1 & sexact != 1

**\*\*DETERMINE FECUNDITY - GROUP 3 (Boxes refer to Figure 2 flowchart in report)**

**\*\*Box 1 - applicable only to currently married**

\* married 5+ years ago, no children in past 5 years, never used contraception, excluding pregnant and PPA < 24 months

g infec = 1 if v502 == 1 & v512 >= 5 & v512 != . & (tsinceb > 59 | tsinceb == .) & v302a == 0 & pregPPA24 != 1

cap replace infec = 1 if v502 == 1 & v512 >= 5 & v512 != . & (tsinceb > 59 | tsinceb == .) & v302a == 0 & pregPPA24 != 1 & (substr(v000,3,1) == "6" | substr(v000,3,1) == "7")

\* declared infecund on future desires for children

replace infec = 1 if v605 == 7

**\*\*Box 3**

\* menopausal/hysterectomy on reason not using contraception

cap replace infec = 1 if v3a08d == 1 & (substr(v000,3,1) == "4" | substr(v000,3,1) == "5" | substr(v000,3,1) == "6" | substr(v000,3,1) == "7")

**\*\*Box 4**

\* Time since last period is >= 6 months and not PPA

replace infec = 1 if tsincep >= 6 & tsincep != . & pregPPA != 1

**\*\*Box 5**

\* menopausal/hysterectomy on time since last period

replace infec = 1 if v215 == 994

\* hysterectomy has different code for some surveys

replace infec = 1 if v215 == 993

\* never menstruated on time since last period, unless had a birth in the last 5 years

replace infec = 1 if v215 == 996 & (tsinceb > 59 | tsinceb == .)

**\*\*Box 6**

\* time since last birth >= 60 months and last period was before last birth

replace infec = 1 if v215 == 995 & tsinceb >= 60 & tsinceb != .

\* Never had a birth, but last period reported as before last birth - assume code should have been 994 or 996

replace infec = 1 if v215 == 995 & tsinceb == .

\* exclude pregnant and PP amenorrheic < 24 months

replace infec = . if pregPPA24 == 1

recode unmet . = 9 if infec == 1

**\*\*FECUND WOMEN - GROUP 4**

\* wants within 2 years

```
recode unmet .=7 if v605==1
* wants in 2+ years, wants undecided timing, or unsure if wants
recode v605 .=4 if v000=="IA4"
recode unmet .=1 if v605>=2 & v605<=4
* wants no more
recode unmet .=2 if v605==5
recode unmet .=99
```

```
la def unmet ///
  1 "unmet need for spacing" ///
  2 "unmet need for limiting" ///
  3 "using for spacing" ///
  4 "using for limiting" ///
  7 "no unmet need" ///
  9 "infecund or menopausal" ///
  97 "not sexually active" ///
  98 "unmarried - EM sample or no data" ///
  99 "missing"
la val unmet unmet
```

```
recode unmet (1/2=1 "unmet need") (else=0 "no unmet need"), g(unmettot)
* generate sampling weight
g wgt=v005/1000000
* tabulate for currently married women
ta unmet if v502==1 [iw=wt], m
ta unmettot if v502==1 [iw=wt]
* all women
ta unmet [iw=wt]
ta unmettot [iw=wt]
* sexually active unmarried
ta unmet if v502!=1 & sexact==1 [iw=wt]
ta unmettot if v502!=1 & sexact==1 [iw=wt]

ta v626 if v502==1 [iw=wt], m
```