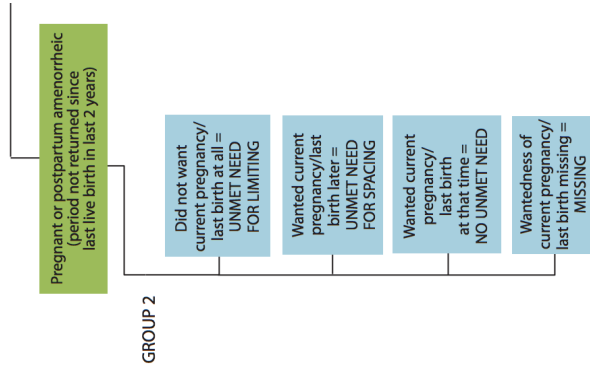


Appendix C

Unmet Need

Algorithm based on [DHS guidelines](#) and informed by [Bradley et al. \(2014\)](#).



group2:

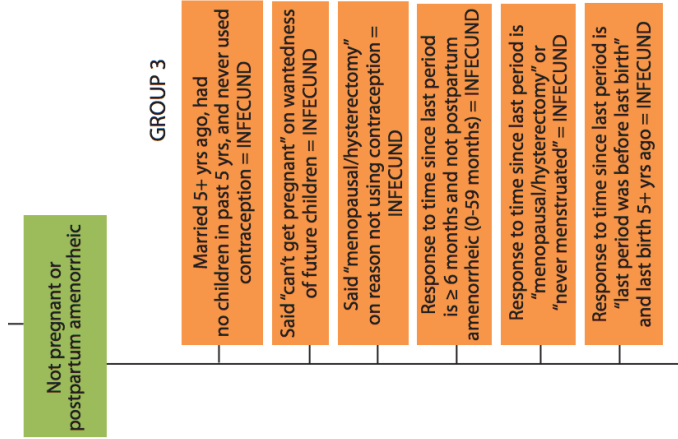
```
if(
  ${New19}='Less_Than_2_Years_Ago' and # birth less than 2 years ago (not necessarily live)
  (${DHSR238}=='Between_24_and_60_months' or # period more than 2 years
  ${DHSR238}='More_than_60_months'),
  1, # means in group 2
  0)
```

group2Need:

```
if(
  ${DHSR228}='Yes', # wanted last pregnancy
  'no_unmet_need', # means no unmet need
  'unmet_need')
```

group2UnmetType:

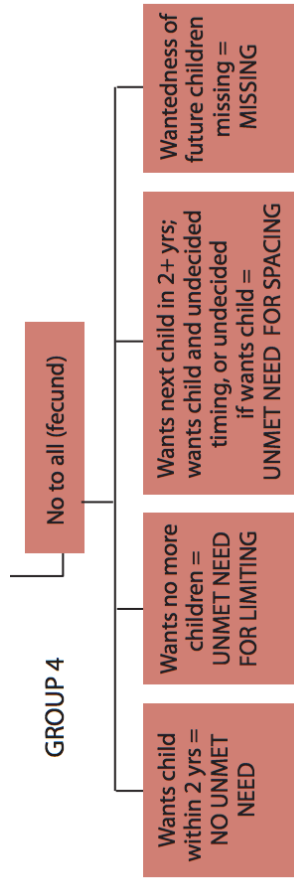
```
if(
  ${DHSR229}='Later', # wanted later
  'spacing', # means unmet need for spacing
  'limiting')
```



group3:

```

if(
  (($New21]='Yes' and ${DHSC313}="No" and # married 5+ years ago, never used contraception
  (${DHSR201}='No' or ${New19}='More_Than_5_Years_Ago')) or # no kids or none past 5 years
  ${DHSFP704}='I_Cant_Get_Pregnant' or # can't get pregnant
  ${DHSR238}='menopause_hysterectomy' or # menopause or hysterectomy
  ${DHSR238}='More_than_60_months') and # no period for 5 years (simplified here)
  ${group2}=1, # not in group 1 (should be redundant)
  1, # means in group 3
  0)
  
```

**group4:**

```

if(
  ${group3!=1, # not group 3 is also not group 2 based on group 3 rules
  1, # means in group 4
  0)

```

group4Need:

```

if(
  ${DHSFP705}='Soon/Now' or ${DHSFP705}='within_2_years', # wants kids < 2 years
  'no_unmet_need', # means no unmet need
  'unmet_need')

```

group4UnmetType:

```

if(
  ${DHSFP704}='No_More/None', # wants no more kids
  'limiting', # means limiting
  'spacing')

```

Unmet Need:

Extension to women not married/in-union

```
if(
  ${DHSMSA615}='within_last_month', # sexually active in last month
  1, # means yes
  0)
```

Logic:

```
if(
  (${group2Need}='unmet_need' or ${group4Need}='unmet_need') and, # unmet need in groups 2/4
  ${sing1eActive}!=0,
  1, # means unmet need
  0)
```