

Appendix 9: Do-file of the Stata analysis

*1. Ouvrir la base de données

* 2. Sélectionner uniquement les variables d'intérêts - fonction keep, drop

```
keep v001 v002 v005 v012 v024 v025 v130 v131 v149 v155 v157 v158 v159 v190 v201 v501 v505 v511 v701 v714 v719 v739  
v743a v743b v743d v743f v741 v744d v633b v731 v751 v754cp v754dp v850a v850b v822
```

*Sélectionner femmes de 15-49 ans

```
keep if v012>=15 & v012<=49
```

*Sélectionner femmes mariées

```
keep if v501==1
```

* 3. Renommer les variables

```
rename v001 cluster_id
```

```
rename v002 household_id
```

```
rename v005 sampling_weight
```

```
rename v012 age
```

```
rename v024 region
```

```
rename v025 rural
```

```
rename v130 religion
```

```
rename v131 ethnicity
```

```
rename v149 education
```

```
rename v155 literacy
```

```
rename v157 journal
```

```
rename v158 radio
```

```
rename v159 tele
```

```
rename v190 wealth
```

```
rename v201 parite
```

```
rename v501 marital
```

```
rename v505 polygamy
```

```
rename v511 age_mariage
```

```
rename v701 education_partner
```

```
rename v714 travail
```

```
rename v719 workfor
```

```
rename v741 salary_type
```

```
rename v739 moneywomen
```

```
rename v743a healthcare
```

```
rename v743b hhpurchases
```

```
rename v743d familyvisits
```

```
rename v743f moneyhusband
```

```
rename v731 work12months
```

```
rename v744 beating_justified
```

```
rename v751 connait_aids
```

```
rename v754cp connaissance_condom
```

```
rename v754dp connaissance_singlepartner
```

```
rename v850a outcome1
```

```
rename v850b outcome2
```

```
rename v822 justifie_refus_ist
```

```
rename v633b justifie_refus_multiples
```

* 4. Categoriser la (les) variable(s) outcome (0, 1) - fonction gen, egen, recode

*Refus sex

```
gen outcome1c= outcome1
```

```
recode outcome1c (0=0) (1=1) (8/9=.)
```

*Ask condom

```
gen outcome2c= outcome2
```

```
recode outcome2c (0=0) (1=1) (8/9=.)
```

* 5. Categoriser les variables explicatives ou covariables_ songer au labels

*5.1 variables socio démographiques

```
gen agec=.
```

```
replace agec=0 if age<=19
```

```
replace agec=1 if age>19 & age<=29
```

```
replace agec=2 if age>29 & age<=39
```

```
replace agec=3 if age>39 & age<=49
```

```
gen rural2= rural
```

```
recode rural2 (1=0) (2=1)
```

```
gen educ= education
```

```
recode educ (0=0) (1/2=1) (3/5=2) (9=9)
```

```
gen educ2= education
```

recode educ2 (0=0) (1/5=1) (9=9)

gen wealth2=wealth
recode wealth2 (1/2=0) (3=1) (4/5=2)

gen religion2= religion
recode religion2 (1=0) (2/3=1) (0=2) (4=2) (96=2) (99=9)

gen salary_type2= salary_type
recode salary_type2 (0=0) (3=1) (1/2=2) (9=9)

*5.2 facteurs autonomie

*Pouvoir de décision

gen hcare= healthcare
recode hcare (1/2=1) (4/6=0) (9=9)

gen hhpurch=hhpurchases
recode hhpurch (1/2=1) (4/6=0) (9=9)

gen famvisit= familyvisits
recode famvisit (1/2=1) (4/6=0) (9=9)

gen moneyh=moneyhusband
recode moneyh (4/7=0) (1/2=1) (9=9)

*Attitude toward wife beating

gen beating_justified2= beating_justified
recode beating_justified2 (0=0) (1=1) (8/9=9)

*5.3 facteurs externes

*Accès média

gen journal2= journal
recode journal2 (0=0) (1/2=1) (9=9)

gen radio2=radio
recode radio2 (0=0) (1/2=1) (9=9)

gen tele2=tele
recode tele2 (0=0) (1/2=1) (9=9)

gen access=journal2 + tele2 + radio2
recode access (0=0) (1/3=1) (9/27=9)

gen access2=journal2 + tele2 + radio2
recode access2 (0=0) (1=1) (2/3=2) (9/27=9)

*6. Labels

label define AGECE 0 "15-19" 1 "20-29" 2 "30-39" 3 "40-49"
label values agec AGECE

label define refuse_sex 0 "No" 1 "Yes"
label values outcome1c refuse_sex

label define ask_condom 0 "No" 1 "Yes"
label values outcome2c ask_condom

label define RURAL 0 "urbain" 1 "rural"
label values rural2 RURAL

label define EDUC 0 "No education" 1 "Primary" 2 "Secondary or higher"
label values educ EDUC

label define EDUC2 0 "No education" 1 "Education"
label values educ2 EDUC2

label define WEALTH 0 "Poor" 1 "Middle" 2 "Rich"
label values wealth2 WEALTH

label define moneyhusband 0 "No" 1 "Yes"
label values moneyh moneyhusband

label define healthcare 0 "No" 1 "Yes"

label values hcare healthcare

label define hhpurchases 0 "No" 1 "Yes"
label values hhpurch hhpurchases

label define familyvisits 0 "No" 1 "Yes"
label values famvisit familyvisits

label define religion 0 "Muslim" 1 "Christian" 2 "Other"
label values religion2 religion

label define Read_journal 0 "No" 1 "Yes"
label values journal2 Read_journal

label define Listen_radio 0 "No" 1 "Yes"
label values radio2 Listen_radio

label define Watch_tv 0 "No" 1 "Yes"
label values tele2 Watch_tv

label define Beating_Justified 0 "No" 1 "Yes"
label values beating_justified2 Beating_Justified

label define Salary_type2 0 "Not paid" 1 "En nature" 2 "En cash"
label values salary_type2 Salary_Type2

* 7. Implementer le plan de sondage (identifier les variables = PSU, pweight, strata)
* The svyset command
gen weight= sampling_weight/1000000
svyset cluster_id, strata(rural) weight(weight) vce(linearized) singleunit(missing)
svydescribe

***** B) 6.2 Framework for Analysis of Categorical Survey Data

* OUTCOME 1: refus

*** Description de l'échantillon (Table 1 + graphiques)

*Enlever les femmes dont les données sont manquantes pour l'outcome1c (grâce à <, => il enleve les missings) => 191 observations enlevées + 93 obs enlevées (info Flowchart)

keep if outcome1c<.

keep if outcome2c<.

* Descriptive statistics

*svy, subpop(if know<2): mean know

*Déviation standart

*estat sd

*Variance

*estat sd, var

* 1. Estimation of Proportions for outcome (fonction tab, prop, mean)

* frequence non ponderée

tabulate outcome1

tabulate outcome1c

tabulate age

tabulate agec

tabulate religion

tabulate religion2

tabulate education

tabulate educ

tabulate educ2

tabulate wealth

tabulate wealth2

tabulate rural

tabulate rural2

tabulate salary_type

tabulate salary_type2

tabulate healthcare

tabulate hcare

tabulate hhpurchases

tabulate hhpurch

tabulate familyvisits

tabulate famvisit

tabulate moneyhusband

tabulate moneyh

tabulate beating_justified
tabulate beating_justified2
tabulate journal
tabulate journal2
tabulate radio
tabulate radio2
tabulate tele
tabulate tele2
tabulate access
tabulate access2

* 1. Frequences ponderées (Estimation of Proportions for (fonction tab, prop, mean))

svy linearized : tabulate outcome1, percent
svy linearized : tabulate outcome1, count
svy linearized : tabulate outcome1c, percent
svy linearized : tabulate outcome1c, count
svy linearized : tabulate age, percent
svy linearized : tabulate age, count
svy linearized : tabulate agec, percent
svy linearized : tabulate agec, count
svy linearized : tabulate religion, percent
svy linearized : tabulate religion, count
svy linearized : tabulate religion2, percent
svy linearized : tabulate religion2, count
svy linearized : tabulate education, percent
svy linearized : tabulate education, count
svy linearized : tabulate educ, percent
svy linearized : tabulate educ, count
svy linearized : tabulate educ2, percent
svy linearized : tabulate educ2, count
svy linearized : tabulate wealth, percent
svy linearized : tabulate wealth, count
svy linearized : tabulate wealth2, percent
svy linearized : tabulate wealth2, count
svy linearized : tabulate rural, percent
svy linearized : tabulate rural, count
svy linearized : tabulate rural2, percent
svy linearized : tabulate rural2, count
svy linearized : tabulate salary_type, percent
svy linearized : tabulate salary_type, count
svy linearized : tabulate salary_type2, percent
svy linearized : tabulate salary_type2, count
svy linearized : tabulate healthcare, percent
svy linearized : tabulate healthcare, count
svy linearized : tabulate hcare, percent
svy linearized : tabulate hcare, count
svy linearized : tabulate hhpurchases, percent
svy linearized : tabulate hhpurchases, count
svy linearized : tabulate hhpurch, percent
svy linearized : tabulate hhpurch, count
svy linearized : tabulate familyvisits, percent
svy linearized : tabulate familyvisits, count
svy linearized : tabulate famvisit, percent
svy linearized : tabulate famvisit, count
svy linearized : tabulate moneyhusband, percent
svy linearized : tabulate moneyhusband, count
svy linearized : tabulate moneyh, percent
svy linearized : tabulate moneyh, count
svy linearized : tabulate beating_justified, percent
svy linearized : tabulate beating_justified, count
svy linearized : tabulate beating_justified2, percent
svy linearized : tabulate beating_justified2, count
svy linearized : tabulate journal, percent
svy linearized : tabulate journal, count
svy linearized : tabulate journal2, percent
svy linearized : tabulate journal2, count
svy linearized : tabulate radio, percent
svy linearized : tabulate radio, count
svy linearized : tabulate radio2, percent
svy linearized : tabulate radio2, count
svy linearized : tabulate tele, percent

svy linearized : tabulate tele, count
svy linearized : tabulate tele2, percent
svy linearized : tabulate tele2, count
svy linearized : tabulate access, percent
svy linearized : tabulate access, count
svy linearized : tabulate access2, percent
svy linearized : tabulate access2, count

*Descriptive statistics BIVARIEES

svy: tab agec outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab religion2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab educ outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab educ2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab wealth outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab wealth2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab rural outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab rural2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab salary_type outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab salary_type2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab healthcare outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab hcare outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab hhpurchases outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab hhpurch outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab moneyhusband outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab moneyh outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab familyvisits outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab famvisit outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab beating_justified outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab beating_justified2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab journal outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab journal2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab radio outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab radio2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab tele outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab tele2 outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab access outcome1c, row obs count cellwidth(12) format(%12.2g)
svy: tab access2 outcome1c, row obs count cellwidth(12) format(%12.2g)

*OUTCOME 2: ASK CONDOM

*Enlever les femmes dont les données sont manquantes pour l'outcome2c (grâce à <. => il enleve les missings)
keep if outcome2c<.

*Fréquence non pondérée

tabulate outcome2
tabulate outcome2c

*Fréquence pondérée

svy linearized : tabulate outcome2, percent
svy linearized : tabulate outcome2, count
svy linearized : tabulate outcome2c, percent
svy linearized : tabulate outcome2c, count

*Descriptive statistics BIVARIEES

svy: tab agec outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab religion2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab educ outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab educ2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab wealth outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab wealth2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab rural outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab rural2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab salary_type outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab salary_type2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab healthcare outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab hcare outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab hhpurchases outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab hhpurch outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab moneyhusband outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab moneyh outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab familyvisits outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab famvisit outcome2c, row obs count cellwidth(12) format(%12.2g)

```
svy: tab beating_justified outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab beating_justified2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab journal outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab journal2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab radio outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab radio2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab tele outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab tele2 outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab access outcome2c, row obs count cellwidth(12) format(%12.2g)
svy: tab access2 outcome2c, row obs count cellwidth(12) format(%12.2g)
```

```
*Régression logistique
*xtmelogit antemed || comm., variance. => modèle vide, sans variables explicatives
```

```
*Enlever les missings
gen educ2bis= educ2
recode educ2bis (9=.)
keep if educ2bis<.
```

```
gen religion2bis= religion2
recode religion2bis (9=.)
keep if religion2bis<.
```

```
gen salary_type2bis= salary_type2
recode salary_type2bis (9=.)
keep if salary_type2bis<.
```

```
gen hcarebis= hcare
recode hcarebis (9=.)
keep if hcarebis<.
```

```
gen hhpurchbis= hhpurch
recode hhpurchbis (9=.)
keep if hhpurchbis<.
```

```
gen famvisitbis= famvisit
recode famvisitbis (9=.)
keep if famvisitbis<.
```

```
gen beating_justified2bis= beating_justified2
recode beating_justified2bis (9=.)
keep if beating_justified2bis<.
```

```
gen access2bis= access2
recode access2bis (9=.)
keep if access2bis<.
```

```
gen moneyhbis= moneyh
recode moneyhbis (9=.)
keep if moneyhbis<.
```

```
*OUTCOME 1 : refus
*xtmelogit outcome1c || cluster_id :, variance
```

```
*référence: aged 40-49
xi: svy: logistic outcome1c ib3.agec
*Référence: no school
xi: svy: logistic outcome1c i.educ2bis
*référence: muslim
xi: svy: logistic outcome1c i.religion2bis
*Référence: middle
xi: svy: logistic outcome1c ib1.wealth2
*Référence: rural
xi: svy: logistic outcome1c ib1.rural2
*Référence: in kind
xi: svy: logistic outcome1c ib1.salary_type2bis
```

```
*Référence:
xi: svy: logistic outcome1c ib1.beating_justified2bis
```

```
*Référence: "No" for decision making
xi: svy: logistic outcome1c i.hcarebis
xi: svy: logistic outcome1c i.hhpurchbis
```

xi: svy: logistic outcome1c i.famvisitbis
xi: svy: logistic outcome1c i.moneyhbis

*Référence: "No" media
xi: svy: logistic outcome1c i.access2bis

*OUTCOME 2 : ask condom (pas famvisit)
*xtmelogit outcome2c || cluster_id :, variance

*référence: aged 40-49
xi: svy: logistic outcome2c ib3.agec
*Référence: no school
xi: svy: logistic outcome2c i.educ2bis

*référence: other (religion)
xi: svy: logistic outcome2c ib2.religion2bis
*Référence: poor
xi: svy: logistic outcome2c i.wealth2
*Référence: rural
xi: svy: logistic outcome2c ib1.rural2

*Référence: in kind
xi: svy: logistic outcome2c ib1.salary_type2bis

*Référence: Oui pour personal beliefs
xi: svy: logistic outcome2c ib1.beating_justified2bis

*Référence: "No" for decision making
xi: svy: logistic outcome2c i.hcarebis
xi: svy: logistic outcome2c i.hhpurchbis
xi: svy: logistic outcome2c i.moneyhbis
*Référence: "No" media
xi: svy: logistic outcome2c i.access2bis

*Modèle multivarié outcome1c
*Modèle 1
xi: svy: logistic outcome1c ib1.beating_justified2bis i.hcarebis i.hhpurchbis i.famvisitbis i.moneyhbis

*Modèle 2 (avec variables de contrôle)
xi: svy: logistic outcome1c ib3.agec i.educ2bis i.religion2bis ib1.wealth2 ib1.rural2 ib1.salary_type2bis ib1.beating_justified2bis
i.hcarebis i.hhpurchbis i.famvisitbis i.moneyhbis i.access2bis

*Modèle multivarié outcome2c (pas de famvisit)
*Modèle 1
xi: svy: logistic outcome2c ib1.beating_justified2bis i.hcarebis i.hhpurchbis i.moneyhbis
*Modèle 2 (avec variables de contrôle)
xi: svy: logistic outcome2c ib3.agec i.educ2bis ib2.religion2bis i.wealth2 ib1.rural2 ib1.salary_type2bis ib1.beating_justified2bis
i.hcarebis i.hhpurchbis i.access2bis i.moneyhbis