Condom use among adolescents in Burkina Faso in the era of HIV/AIDS

Georges Guiella Institut Supérieur des Sciences de la Population (ISSP, ex-UERD)- Université de Ouagadougou

Background

Many researches on adolescent behaviors have been carried out, including alcohol, drug use, and unsafe sexual practice (e.g. Biglan et al., 1990; Newcom & Bentler, 1988; Santelli et al., 2000). They have shown that environmental, family, and individual factors are associated with a range of adolescent risky behaviors. With regard to unsafe sexual practice, it is now well known that HIV/STDs are spread through sex without condoms. "Any number of other factors may influence who has sex with whom and whether they use condoms, but the act that spreads the virus, in the overwhelming majority of cases, is an act of unprotected sex" (Measure evaluation bulletin, n°2, 2001). Using a unique set of data collected in 2004 from nationally-representative survey of adolescents, this study aims to examine adolescent risky and protective sexual behavior by measuring risky sex (multipartnerships, non-marital, non-cohabiting partnerships) and condom use among adolescents in Burkina Faso, using new approaches and indicators recommended by the UNAIDS/Measure Evaluation.

Data and methods

Data come from the Burkina National Adolescents Survey carried out in 2004. It's a nationally-representative household-based survey of 5,955 adolescents of 12-19 year olds. The 2004 survey is part of a larger, five-year study of adolescent sexual and reproductive health issues called *Protecting the Next Generation: Understanding HIV Risk Among Youth* (PNG). The project, which is being carried out in Burkina Faso, Ghana, Malawi and Uganda, seeks to contribute to the global fight against the HIV/AIDS epidemic among adolescents by raising awareness of young people's sexual and reproductive health needs with regard to HIV/AIDS, other sexually transmitted infections (STIs) and unwanted pregnancy; communicating new knowledge to a broader audience, including policymakers, healthcare providers and the media, in each country, regionally and internationally; and stimulating the development of improved policies and programs that serve young people. Descriptive and multivariate analysis has been used.

Preliminary findings:

Descriptive findings show that for 4 in 10 females of 15-19 years old who have never experienced intercourse, the underlying reason is that they want to wait until marriage. No more than 3 in 10 females and 4 in 10 males of those who have ever heard about male condom have ever seen a formal condom demonstration. Less than 3 in 10 females adolescents feel very confident in getting a male partner to wear a condom while the same proportion of males adolescents feel very confident in knowing how to wear a condom. Social-psychological reasons (being embarrassed, shy) are the most common barriers to getting male condom among sexually-experienced adolescents.

Characteristic	Female			Male		
	12-14	15-19	Total	12-14	15-19	Total
	(N=22)	(N=679)	(N=701)	(N=53)	(N=412)	(N=465)
1 partner in last 12 menths used						
a partiler in fast 12 months, used		24.4	24.5	22.6	371	35 5
1 partner in last 12 months no		24,4	24,5	22,0	57,1	55,5
condom		70.1	70.0	54 7	39.6	413
2+ partners in last 12 months		70,1	70,0	54,7	57,0	71,5
used condom		21	21	0.0	14 1	12.5
2+ partners in last 12 months.		_,1	_,-	0,0	,-	,0
no condom		3,4	3,3	22,6	9,2	10,8
		,	,	,	,	,
Total	100,0	100,0	100,0	100,0	100,0	100,0

Table 1: Profile of sexual behavior and condom use at last sex among adolescents who had sex in last 12 months by age and sex, Burkina Faso, National Survey of Adolescents, 2004

A logistic regression approach was used to estimate the relationship between adolescent's condom use and their social and demographic characteristics (Table 2). Three separate models have been fitted: Model 1 which contains adolescent's demographic characteristics (schooling, religion, residence...) without any controls; model 2 where adolescent's knowledge, attitudes and practices are taken into account and finally, model 3 where household's characteristics have been added. All of the three models show that the odds of condom use increased with years of schooling (p<.01). Residence (urban/rural) is a significant predictor of condom use, with condom use in big cities being 5 times the level of rural areas (p<.01). Media access, religion, knowing someone who is HIV positive did not have a statistically significant effect on condom use.

Findings are expected to enlighten policymakers and program managers on the adolescent sexual and reproductive health challenges in Burkina.

I I II Sex	Characteristic	Odds ratio					
Sex I. I. I. I. Male (MR) (MR) (MR) (MR) Female (0.837(ns) (0.990(ns)) Residence Rural (MR) (MR) (MR) (MR) Medium cities 2,731*** 1,833** 1.976** Distruction (MR) (MR) (MR) None (MR) (MR) (MR) Primary school 1.879*** 3,285*** Age 12 - 1 years 2,289** 1,318(ns) 1,308(ns) Religion (MR) (MR) (MR) Muslem (MR) (MR) (MR) Catholic 0.990(ns) 0,967(ns) 0,980(ns) 0,892(ns) Others 0,967(ns) 0,808(ns) 0,921(ns) 0,121(ns) Two in 4 0,450(ns) 0,217(ns) 0,217(ns) None (MR) (MR) (MR) MR) None (MR) (MR) (MR) 1,550(ns) None </td <td></td> <td>Т</td> <td>П</td> <td>Ш</td>		Т	П	Ш			
Male (MR) (MR) (MR) (MR) Female 0.837(ns) 0.997(ns) 1,090(ns) Residence (MR) (MR) (MR) Rural (MR) (MR) (MR) Medium cities 2,731*** 1,833** 1.976** Big cities 4,827*** 3,261*** 2,672** Instruction (MR) (MR) (MR) None (MR) (MR) (MR) Primary school 1.879*** 1,677** 1,506** Secondary school and more 5,194*** 3,497*** 3,285*** Age (MR) (MR) (MR) (MR) 15 - 19 years 2,280*** 1,318(ns) 1,308(ns) Religion (MR) (MR) (MR) (MR) Catholic 0,999(ns) 0,967(ns) 1,123(ns) 1,025(ns) Moslee of the ways of HIV transmission None (MR) (MR) None (MR) (MR) (MR) Protestant	Sex		п				
Female 0,837(ns) 0,997(ns) 1,090(ns) Residence Rural (MR) (MR) (MR) Medium cities 2,731*** 1,833** 1,976** Big cities 4,827*** 3,261*** 2,672** Instruction (MR) (MR) (MR) Primary school 1,879*** 3,285*** Age (MR) (MR) (MR) Primary school 1,879*** 3,285*** Age (MR) (MR) (MR) 12 - 14 years (MR) (MR) (MR) Religion (MR) (MR) (MR) Muslem (MR) (MR) (MR) Catholic 0,999(ns) 0,967(ns) 1,123(ns) Protestant 0,967(ns) 0,018(ns) 0,123(ns) None (MR) (MR) (MR) None (MR) (MR) (MR) None (MR) (MR) 0,474(ns) Have done the AIDS test (MR) (M	Male	(MR)	(MR)	(MR)			
Residence (MR) (MR) (MR) Rural (MR) (MR) (MR) Medium cities 2,731*** 1,833** 1,976** Big cities 4,827*** 3,261*** 2,672** Instruction (MR) (MR) (MR) None (MR) (MR) (MR) Primary school 1,879*** 3,67** 3,28*** Age (MR) (MR) (MR) (MR) Secondary school and more 5,194*** 3,497*** 3,28*** Age (MR) (MR) (MR) (MR) Muslem (MR) (MR) (MR) (MR) Muslem (MR) (MR) (MR) (MR) Others 0,990(ns) 0,967(ns) 0,81(ns) 1,025(ns) None (MR) (MR) (MR) (MR) One way in 4 ways 0,178(ns) 0,208(ns) 0,217(ns) Three in 4 0,178(ns) 0,208(ns) 0,511(ns) Three i	Female	0.837(ns)	0.997(ns)	1.090(ns)			
Rural (MR) (MR) (MR) (MR) Medium cities 2,731*** 1,833** 1,976** Big cities 4,827*** 3,261*** 2,672** Instruction 0 0 0 0 None 0 0 0 0 0 Primary school 1,879*** 1,677** 1,596** 3,285*** Age 0 1 1,879*** 1,677** 1,596** Secondary school and more 5,194*** 3,497*** 3,285*** 3,285*** Age 0 1,879*** 1,677** 1,596** Secondary school and more 5,194*** 3,497*** 3,285*** Age 0 1,318(ns) 1,308(ns) Retigion 0 0 0 0 1,308(ns) Muslem (MR) (MR) (MR) 0,892(ns) 0,217(ns) Knowledge of the ways of HIV transmission (MR) 0,178(ns) 0,217(ns) 1,782(ns) 0,178(ns) 0,217(ns) </td <td>Residence</td> <td></td> <td></td> <td>,</td>	Residence			,			
Medium cities $2,731^{4**}$ $1,833^{4*}$ $1,976^{4*}$ Big cities $4,827^{***}$ $3,261^{***}$ $2,672^{**}$ Instruction (MR) (MR) (MR) Primary school $1,879^{***}$ $1,677^{**}$ $1,596^{**}$ Secondary school and more $5,194^{***}$ $3,497^{***}$ $3,285^{***}$ Age (MR) (MR) (MR) (MR) $12 - 14$ years $2,289^{**}$ $1,318(ns)$ $1,308(ns)$ Religion (MR) (MR) (MR) (MR) Muslem (MR) (MR) (MR) (MR) Catholic $0,999(ns)$ $0,967(ns)$ $0,132(ns)$ $0,282(ns)$ Protestant $0,967(ns)$ $0,808(ns)$ $0,282(ns)$ $0,178(ns)$ $0,217(ns)$ None (MR) (MR) (MR) $0,178(ns)$ $0,217(ns)$ $0,217(ns)$ Two in 4 $0,460(ns)$ $0,474(ns)$ $0,474(ns)$ $0,474(ns)$ Have done the AIDS test (MR) (MR) (MR) $0,474(ns)$ No (MR) (MR) $1,2$	Rural	(MR)	(MR)	(MR)			
Big cities $4,827***$ $3,261***$ $2,672**$ Instruction None (MR) (MR) (MR) None (MR) (MR) (MR) (MR) Primary school and more $5,194***$ $3,497***$ $3,285***$ Age (MR) (MR) (MR) (MR) 12 - 14 years (MR) (MR) (MR) Muslem (MR) (MR) (MR) Muslem (MR) (MR) (MR) Catholic $0,999(ns)$ $0,967(ns)$ $1,123(ns)$ Protestant $0,967(ns)$ $1,025(ns)$ Others $0,790(ns)$ $1,018(ns)$ $0,922(ns)$ Others $0,790(ns)$ $0,178(ns)$ $0,228(ns)$ Three in 4 $0,178(ns)$ $0,208(ns)$ $0,474(ns)$ Have done the AIDS test (MR) (MR) (MR) No (MR) (MR) (MR) $0,474(ns)$ Is years $1,242(ns)$ $1,253(ns)$ $1,158(ns)$ <t< td=""><td>Medium cities</td><td>2.731***</td><td>1.833**</td><td>1.976**</td></t<>	Medium cities	2.731***	1.833**	1.976**			
Instruction Image of the second and more (MR) (MR) (MR) Primary school and more 5,194*** 3,497*** 3,285*** Age 12 - 14 years (MR) (MR) (MR) 12 - 19 years 2,289** 1,318(ns) 1,308(ns) Religion (MR) (MR) (MR) Muslem (MR) (MR) (MR) Catholic 0,999(ns) 0,967(ns) 0,128(ns) Protestant 0,967(ns) 0,108(ns) 0,922(ns) Others 0,970(ns) 1,018(ns) 1,025(ns) Knowledge of the ways of HIV transmission None (MR) (MR) None 0,178(ns) 0,217(ns) 0,808(ns) 0,217(ns) Three in 4 0,178(ns) 0,218(ns) 0,217(ns) Three in 4 0,178(ns) 0,208(ns) 0,474(ns) Have done the AIDS test (MR) (MR) (MR) No (MR) (MR) (MR) (MR) Yes 1,322(ns) 1,350(ns) </td <td>Big cities</td> <td>4.827***</td> <td>3.261***</td> <td>2.672**</td>	Big cities	4.827***	3.261***	2.672**			
None (MR) (MR) (MR) Primary school 1,879*** 1,677** 1,596** Secondary school and more 5,94*** 3,497*** 3,285*** Age (MR) (MR) (MR) 12 - 14 years (MR) (MR) (MR) 15 - 19 years 2,289** 1,318(ns) 1,308(ns) Religion (MR) (MR) (MR) Muslem (MR) (MR) (MR) Catholic 0.999(ns) 0,967(ns) 1,123(ns) Protestant 0.967(ns) 0,892(ns) 0,892(ns) Others 0,790(ns) 1,018(ns) 0,025(ns) None (MR) (MR) (MR) None (MR) 0,450(ns) 0,511(ns) Two in 4 0,478(ns) 0,208(ns) 0,474(ns) Have done the AIDS test (MR) (MR) (MR) No (MR) (MR) (MR) (MR) Yes 1,214(ns) 1,242(ns) 1,235(ns) <td>Instruction</td> <td>, - ·</td> <td>-, -</td> <td>,</td>	Instruction	, - ·	-, -	,			
Primary school 1,879*** 1,677** 1,596** Secondary school and more 5,194*** 3,497*** 3,285*** Age 12 - 14 years (MR) (MR) (MR) 15 - 19 years 2,289** 1,318(ns) 1,308(ns) Religion Muslem (MR) (MR) (MR) Muslem 0,97(ns) 0,908(ns) 0,922(ns) Orbers 0,990(ns) 1,018(ns) 1,025(ns) None (MR) (MR) (MR) One way in 4 ways 0,178(ns) 0,217(ns) 0,208(ns) Four in 4 0,178(ns) 0,208(ns) 0,217(ns) Two in 4 0,178(ns) 0,208(ns) 0,217(ns) No (MR) (MR) (MR) Yes 1,821(ns) 1,350(ns) 1,80(ns) Four in 4 0,478(ns) 0,208(ns) 0,474(ns) No (MR) (MR) (MR) Yes 1,821(ns) 1,350(ns) 1,58(ns) Stow someone who is HIV positive <td>None</td> <td>(MR)</td> <td>(MR)</td> <td>(MR)</td>	None	(MR)	(MR)	(MR)			
Secondary school and more $5,194***$ $3,497***$ $3,285***$ Age (MR) (MR) (MR) (MR) $12 - 19$ years $2,289**$ $1,318(ns)$ $1,308(ns)$ Religion (MR) (MR) (MR) (MR) Muslem (MR) $0,967(ns)$ $0,123(ns)$ $0,892(ns)$ Others $0,967(ns)$ $0,892(ns)$ $0,892(ns)$ $0,892(ns)$ Others $0,967(ns)$ $0,108(ns)$ $0,292(ns)$ $0,790(ns)$ $1,018(ns)$ $0,292(ns)$ None (MR) (MR) (MR) (MR) None $0,790(ns)$ $0,108(ns)$ $0,511(ns)$ $1,025(ns)$ Two in 4 $0,450(ns)$ $0,511(ns)$ $0,208(ns)$ $0,747(ns)$ Four in 4 $0,408(ns)$ $0,474(ns)$ $0,408(ns)$ $0,747(ns)$ No (MR) (MR) (MR) (MR) Yes $1,321(ns)$ $1,32(ns)$ $1,358(ns)$ Store of the AIDS test (MR) (MR) (MR)	Primary school	1.879***	1.677**	1.596**			
Age Interference Interference 12 - 14 years (MR) (MR) (MR) 15 - 19 years 2,289** 1,318(ns) 1,308(ns) Religion (MR) (MR) (MR) Muslem (MR) (MR) (MR) Catholic 0,999(ns) 0,967(ns) 0,892(ns) Others 0,967(ns) 0,892(ns) 0,892(ns) Others 0,790(ns) 1,018(ns) 1,025(ns) Knowledge of the ways of HIV transmission None (MR) (MR) None (MR) (MR) 0,408(ns) 0,217(ns) Two in 4 0,178(ns) 0,217(ns) 0,208(ns) 0,414(ns) Three in 4 0,178(ns) 0,208(ns) 0,414(ns) 0,408(ns) 0,474(ns) Have done the AIDS test No (MR) (MR) Yes 1,350(ns) Know someone who is HIV positive No (MR) (MR) 1,41(ns) 1,241(ns) 1,241(ns) 1,241(ns) 1,241(ns) 1,241(ns) 1,241(ns)	Secondary school and more	5.194***	3.497***	3.285***			
12 - 14 years (MR) (MR) (MR) 15 - 19 years 2,289** 1,318(ns) 1,308(ns) Religion Muslem (MR) (MR) (MR) Muslem (MR) (MR) (MR) (MR) Catholic 0,999(ns) 0,967(ns) 1,123(ns) 1,23(ns) Protestant 0,967(ns) 0,808(ns) 0,892(ns) 0,892(ns) Others 0,790(ns) 1,018(ns) 1,025(ns) None (MR) (MR) None (MR) (MR) (MR) (MR) 0,178(ns) 0,217(ns) 0,217(ns) Two in 4 0,450(ns) 0,511(ns) 1,025(ns) 0,474(ns) Have done the AIDS test Mo (MR) (MR) No (MR) (MR) (MR) Yes 1,32(ns) 1,358(ns) 350(ns) Know someone who is HIV positive Mo (MR) (MR) No (MR) (MR) (MR) 15 years 1,214(ns) 1,241(ns) 1,241(ns) 16 years 1,242(ns) 1,235(ns)	Age	-,	-,.,.	-,			
15 - 19 years $2,289^{**}$ $1,318(ns)$ $1,308(ns)$ Religion	12 - 14 years	(MR)	(MR)	(MR)			
Religion (MR) (MR) (MR) Catholic 0,999(ns) 0,967(ns) 1,123(ns) Protestant 0,967(ns) 0,808(ns) 0,892(ns) Others 0,790(ns) 1,018(ns) 1,025(ns) None (MR) (MR) (MR) One way in 4 ways 0,178(ns) 0,217(ns) Two in 4 0,450(ns) 0,511(ns) Three in 4 0,478(ns) 0,208(ns) Four in 4 0,408(ns) 0,474(ns) Have done the AIDS test (MR) (MR) No (MR) (MR) (MR) Yes 1,32(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) <15 years	15 - 19 years	2.289**	1.318(ns)	1.308(ns)			
Muslem(MR)(MR)(MR)Catholic $0.999(ns)$ $0.967(ns)$ $1.123(ns)$ Protestant $0.967(ns)$ $0.808(ns)$ $0.892(ns)$ Others $0.790(ns)$ $1.018(ns)$ $1.025(ns)$ Knowledge of the ways of HIV transmission(MR)(MR)None (MR) (MR) (MR) One way in 4 ways $0.790(ns)$ $0.178(ns)$ $0.217(ns)$ Two in 4 $0.450(ns)$ $0.511(ns)$ Three in 4 $0.178(ns)$ $0.208(ns)$ Four in 4 $0.408(ns)$ $0.474(ns)$ Have done the AIDS test MR (MR)No(MR)(MR)Yes $1.32(ns)$ $1.350(ns)$ Know someone who is HIV positive MR No(MR)(MR)Yes $1.214(ns)$ $1.241(ns)$ 15 years $1.214(ns)$ $1.241(ns)$ 16 years $1.242(ns)$ $1.235(ns)$ 17 years and more $1.716**$ $1.711**$ Condom use=sign of no trustAgree(MR)(MR)Agree(MR)(MR)Desagree $1.751***$ $1.907***$ Mother's level of Instruction $0.612(ns)$ $0.612(ns)$ None(MR) $0.612(ns)$ $5.514(ns)$ Father's level of Instruction $0.612(ns)$ $5.514(ns)$ None(MR) $0.512(ns)$ $5.514(ns)$ Secondary school or more $5.514(ns)$ $5.516(ns)$	Religion	,	<u> </u>	,()			
Catholic 0.999(ns) 0.967(ns) 1,123(ns) Protestant 0.967(ns) 0.808(ns) 0.892(ns) Others 0.790(ns) 1,018(ns) 1,025(ns) Knowledge of the ways of HIV transmission (MR) (MR) None (MR) (MR) One way in 4 ways 0,178(ns) 0,217(ns) Two in 4 0.450(ns) 0,511(ns) Two in 4 0,450(ns) 0,511(ns) Three in 4 0,408(ns) 0,474(ns) Four in 4 0,408(ns) 0,474(ns) Have done the AIDS test (MR) (MR) No (MR) (MR) (MR) Yes 1,32(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) (MR) Yes 1,214(ns) 1,241(ns) 1,241(ns) 16 years 1,214(ns) 1,241(ns) 1,241(ns) 16 years 1,214(ns) 1,241(ns) 1,241(ns) 16 years 1,415*	Muslem	(MR)	(MR)	(MR)			
Direction 0,967(ms) 0,808(ms) 0,892(ms) Others 0,790(ms) 1,018(ms) 1,025(ms) Knowledge of the ways of HIV transmission (MR) (MR) None (MR) (MR) (MR) One way in 4 ways 0,178(ms) 0,217(ms) 0,217(ms) Two in 4 0,450(ms) 0,511(ms) 0,208(ms) Four in 4 0,178(ms) 0,208(ms) 0,474(ms) Have done the AIDS test (MR) (MR) (MR) Yes 1,821(ms) 1,350(ms) 0,474(ms) Have done the AIDS test (MR) (MR) (MR) Yes 1,821(ms) 1,350(ms) 0,474(ms) Yes 1,821(ms) 1,350(ms) 0,50(ms) Yes 1,821(ms) 1,214(ms) 1,241(ms) 15 years 1,214(ms) 1,241(ms) 1,241(ms) 16 years 1,242(ms) 1,235(ms) 1,711** Condom use=sign of no trust (MR) (MR) (MR) Agree (MR)	Catholic	0.999(ns)	0.967(ns)	1.123(ns)			
Others $0,00000000000000000000000000000000000$	Protestant	0.967(ns)	0.808(ns)	0.892(ns)			
Knowledge of the ways of HIV transmission (MR) (MR) (MR) None (MR) (MR) (MR) One way in 4 ways 0,178(ns) 0,217(ns) 0,208(ns) Two in 4 0,450(ns) 0,511(ns) 0,208(ns) Three in 4 0,178(ns) 0,208(ns) 0,474(ns) Have done the AIDS test (MR) (MR) (MR) Yes 1,821(ns) 1,350(ns) 0,208(ns) Know someone who is HIV positive (MR) (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex < 15 years	Others	0.790(ns)	1.018(ns)	1.025(ns)			
None (MR) (MR) None 0,178(ns) 0,217(ns) Two in 4 0,450(ns) 0,511(ns) Three in 4 0,178(ns) 0,208(ns) Four in 4 0,408(ns) 0,474(ns) Have done the AIDS test (MR) (MR) No (MR) (MR) Yes 1,821(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) < 15 years	Knowledge of the ways of HIV transmission	0,790(115)	1,010(110)	1,020(115)			
One way in 4 ways 0,178(ms) 0,217(ms) Two in 4 0,450(ms) 0,511(ms) Three in 4 0,178(ms) 0,208(ms) Four in 4 0,408(ms) 0,474(ms) Have done the AIDS test (MR) (MR) No (MR) (MR) Yes No (MR) (MR) (MR) Yes 1,821(ms) 1,350(ms) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ms) 1,158(ms) Age at first sex (MR) (MR) < 15 years	None		(MR)	(MR)			
Two in 4 0,450(ms) 0,511(ms) Three in 4 0,178(ms) 0,208(ms) Four in 4 0,408(ms) 0,474(ms) Have done the AIDS test (MR) (MR) No (MR) (MR) Yes 1,821(ms) 1,350(ms) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ms) 1,158(ms) Age at first sex (MR) (MR) < 15 years	One way in 4 ways		0.178(ns)	0.217(ns)			
Three in 4 0,178(ns) 0,218(ns) Four in 4 0,408(ns) 0,474(ns) Have done the AIDS test (MR) (MR) No (MR) (MR) Yets 1,821(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) (MR) Yets 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) (MR) < 15 years	Two in 4		0.450(ns)	0.511(ns)			
Four in 4 0,408(ns) 0,474(ns) Have done the AIDS test 0,408(ns) 0,474(ns) No (MR) (MR) Yes 1,821(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) < 15 years	Three in 4		0.178(ns)	0.208(ns)			
Have done the AIDS test 0, 100 (ms) 0, 170 (ms) No (MR) (MR) Yes 1,821(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) < 15 years	Four in 4		0.408(ns)	0.474(ns)			
No (MR) (MR) (MR) Yes 1,821(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) < 15 years	Have done the AIDS test		0,400(113)	0,474(113)			
Yes 1,821(ns) 1,350(ns) Know someone who is HIV positive (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) <15 years	No		(MR)	(MR)			
No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) < 15 years	Ves		1.821(ns)	1.350(ns)			
No (MR) (MR) No (MR) (MR) Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) <15 years	Know someone who is HIV positive		1,021(115)	1,550(115)			
Yes 1,132(ns) 1,158(ns) Age at first sex (MR) (MR) < 15 years	No		(MR)	(MR)			
Age at first sex (MR) (MR) < 15 years	Ves		1 132(ns)	1.158(ns)			
< 15 years	Age at first sex		1,152(115)	1,150(115)			
15 years1,214(ns)1,241(ns)16 years1,214(ns)1,242(ns)17 years and more1,716**1,711**Condom use=sign of no trustAgree(MR)(MR)Desagree1,415*1,386*Buying or asking a condom is embarrassing(MR)Agree(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction0,612(ns)None(MR)Primary school0,612(ns)Secondary school or more(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	< 15 years		(MR)	(MR)			
15 years1,214(hs)1,247(hs)16 years1,242(ns)1,235(ns)17 years and more1,716**1,711**Condom use=sign of no trustAgree(MR)(MR)Desagree1,415*1,386*Buying or asking a condom is embarrassing(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction(MR)(MR)None(MR)0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	15 years		1.214(ns)	1.241(ns)			
10 years1,2-12(m)1,2-50(m)17 years and more1,716**1,711**Condom use=sign of no trust(MR)(MR)Agree(MR)(MR)Desagree1,415*1,386*Buying or asking a condom is embarrassing(MR)(MR)Agree(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction(MR)None(MR)Primary school0,612(ms)Secondary school or more5,514(ms)Father's level of Instruction(MR)None(MR)Primary school1,195(ms)Secondary school or more0,608(ms)	16 years		1,217(ns) 1.242(ns)	1,235(ns)			
Condom use=sign of no trust(MR)(MR)Agree(MR)(MR)Desagree1,415*1,386*Buying or asking a condom is embarrassing(MR)(MR)Agree(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction(MR)(MR)None(MR)0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	17 years and more		1 716**	1 711**			
Condom use=sign of no trust(MR)(MR)Agree(MR)1,415*1,386*Buying or asking a condom is embarrassingUUAgree(MR)(MR)Desagree1,751***1,907***Mother's level of InstructionUUNone(MR)0,612(ns)Secondary school or more5,514(ns)Father's level of InstructionUNone(MR)Primary school or more0,612(ns)Secondary school or more0,612(ns)Secondary school or more0,612(ns)Secondary school or more0,612(ns)None(MR)Primary school or more0,612(ns)Secondary school or more0,612(ns)Secondary school or more0,612(ns)Secondary school or more0,612(ns)Secondary school or more0,608(ns)	17 yours and more		1,710	1,711			
Agree(MR)(MR)Desagree1,415*1,386*Buying or asking a condom is embarrassing Agree(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction None(MR)(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction None(MR)Primary school or more0,612(ns)Secondary school or more0,608(ns)	Condom use=sign of no trust						
Ngree(MR)Desagree1,415*Buying or asking a condom is embarrassingAgree(MR)Desagree(MR)Desagree1,751***Mother's level of InstructionNone(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Agree		(MR)	(MR)			
Buying or asking a condom is embarrassing Agree(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction(MR)None(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Desagree		1 415*	1 386*			
Agree(MR)(MR)Desagree1,751***1,907***Mother's level of Instruction(MR)None(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Buying or asking a condom is embarrassing		1,110	1,500			
InstructionInstructionNone(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Agree		(MR)	(MR)			
Mother's level of Instruction(MR)None(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Desagree		1 751***	1 907***			
None(MR)Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Mother's level of Instruction		1,701	1,507			
Primary school0,612(ns)Secondary school or more5,514(ns)Father's level of Instruction(MR)None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	None			(MR)			
Secondary school or more5,514(ns)Father's level of Instruction(MR)Primary school1,195(ns)Secondary school or more0.608(ns)	Primary school			0.612(ns)			
Father's level of Instruction(MR)None1,195(ns)Secondary school or more0.608(ns)	Secondary school or more			5,512(ns)			
None(MR)Primary school1,195(ns)Secondary school or more0,608(ns)	Father's level of Instruction			2,21 (115)			
Primary school 1,195(ns) Secondary school or more 0,608(ns)	None			(MR)			
Secondary school or more 0.608(ns)	Primary school			1.195(ns)			
	Secondary school or more			0.608(ns)			

Table 2: Multivariate odds ratio from 3 logistic regression models of the effects of selected characteristics on condom use among adolescents in Burkina.

*** significant at 1%; ** significant at 5%; * significant at 10%; (ns) non significant; (MR) Modality of reference