

Supplementary tables

Table S1: Multivariable models showing factors associated with contraceptive use among parenting adolescent girls and young women in Angola, Benin, Burundi and Cameroon

Variables	Country			
	Angola aOR[95%CI]	Benin aOR[95%CI]	Burundi aOR[95%CI]	Cameroon aOR[95%CI]
Age				
15-17	Ref	Ref	Ref	Ref
18-19	1.73 (1.00-3.00)	0.68 (0.32-1.42)	0.97 (0.35-2.64)	1.02 (0.65-1.60)
Marital status				
Never married	Ref	Ref	Ref	Ref
Married	2.06 (0.81-5.20)	0.85 (0.34-2.08)	3.97** (1.52-10.36)	0.30** (0.22-0.70)
Cohabiting	1.12 (0.68-1.86)	1.48 (0.56-3.94)	4.08** (1.73-9.60)	0.95 (0.57-1.57)
Widowed/divorced/separated*	0.76 (0.25-2.36)	-	1.19 (0.38-3.69)	0.22* (0.06-0.79)
Level of education				
No education	Ref	Ref	Ref	Ref
Primary	3.60* (1.24-10.49)	1.03 (0.46-2.30)	1.15 (0.43-3.03)	2.09 (0.91-4.78)
Secondary/higher	3.66* (1.21-11.04)	0.69 (0.29-1.65)	1.01 (0.32-3.18)	2.19 (0.96-5.01)
Parity				
One birth	Ref	Ref	Ref	Ref
Two births or more	1.15 (0.66-2.00)	1.28 (0.53-3.08)	1.71 (0.59-4.98)	1.29 (0.79-2.10)
Exposure to media*				
No	-		Ref	Ref
Yes	-	1.45 (0.74-2.85)	1.01 (0.46-2.23)	1.26 (0.81-1.96)
Ideal number of children				
0-3	Ref	Ref	Ref	Ref
4-5	1.15 (0.70-1.89)	1.22 (0.46-3.26)	0.41* (0.20-0.81)	0.98 (0.58-1.66)
6+	0.64 (0.30-1.39)	1.73 (0.62-4.80)	0.23 (0.04-1.31)	0.57 (0.30-1.09)
Wealth index				
Poorest	Ref	Ref	Ref	Ref
Poorer	1.30 (0.45-3.70)	2.45 (0.72-8.31)	0.56 (0.18-1.72)	1.23 (0.61-2.47)
Middle	2.24 (0.73-6.87)	3.42 (0.99-11.70)	0.96 (0.35-2.62)	1.27 (0.61-2.68)
Richer	2.66 (0.80-8.92)	4.82* (1.40-16.57)	0.98 (0.36-2.68)	0.63 (0.26-1.55)

Richest	6.89** (1.95-24.36)	4.27* (1.02-17.91)	0.81 (0.24-2.70)	0.70 (0.25-1.99)
Place of Residence				
Urban	Ref	Ref	Ref	Ref
Rural	0.57 (0.27-1.22)	0.75 (0.36-1.56)	0.47 (0.17-1.30)	0.89 (0.53-1.49)

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

*Media was omitted in Angola because of collinearity; *widowed/divorced/separated in Benin was dropped in the regression model

Table S2: Multivariable models showing factors associated with contraceptive use among parenting adolescent girls and young women in Ethiopia, Guinea, Mali and Malawi

Variables	Country			
	Ethiopia aOR[95%CI]	Guinea aOR[95%CI]	Mali aOR[95%CI]	Malawi aOR[95%CI]
Age				
15-17	Ref	Ref	Ref	Ref
18-19	5.04** (2.00-12.71)	1.39 (0.70-2.77)	2.28* (1.22-4.29)	1.11 (0.82-1.51)
Marital status				
Never married	Ref	Ref	Ref	Ref
Married	1.66 (0.39-7.13)	0.50 (0.25-1.01)	0.54(0.27-1.08)	3.69*** (2.65-5.14)
Cohabiting	0.24 (0.02-2.55)	1.47 (0.41-5.29)	1.60 (0.25-10.22)	2.84** (1.53-5.26)
Widowed/divorced/separated	0.31 (0.05-1.91)	1.03 (0.10-10.23)	0.32 (0.06-1.68)	1.17 (0.74-1.84)
Level of education				
No education	Ref	Ref	Ref	Ref
Primary	1.85 (0.88-3.87)	0.86 (0.42-1.75)	1.01 (0.50-2.05)	2.43** (1.33-4.44)
Secondary/higher	0.65 (0.20-2.00)	0.51 (0.21-1.23)	3.36*** (1.85-6.09)	2.45* (1.24-4.87)
Parity				
One birth	Ref	Ref	Ref	Ref
Two births or more	0.24* (0.08-0.72)	1.03 (0.48-2.18)	1.47 (0.80-2.69)	0.78 (0.50-1.23)
Exposure to media				
No	Ref	Ref	Ref	Ref
Yes	1.63 (0.80-3.29)	1.73 (0.97-3.09)	1.46 (0.88-2.45)	0.88 (0.66-1.17)
Ideal number of children				
0-3	Ref	Ref	Ref	Ref
4-5	1.08 (0.52-2.24)	2.04 (0.66-6.30)	0.70 (0.33-1.49)	0.79 (0.60-1.04)
6+	0.59 (0.26-1.34)	4.01* (1.28-12.60)	0.58 (0.26-1.27)	0.56 (0.22-1.40)
Wealth index				

Poorest	Ref	Ref	Ref	Ref
Poorer	3.52** (1.44-8.65)	1.65 (0.53-5.14)	1.28 (0.46-3.56)	1.13 (0.79-1.62)
Middle	2.08 (0.83-5.25)	2.32 (0.75-7.16)	0.86 (0.31-2.39)	1.19 (0.81-1.76)
Richer	6.36** (2.16-18.73)	3.96* (1.24-12.66)	2.31 (0.89-6.01)	0.97 (0.64-1.46)
Richest	9.44*** (2.67-33.42)	3.38 (0.84-13.60)	3.18 (1.06-9.50)	0.74 (0.45-1.21)
Place of Residence				
Urban	Ref	Ref	Ref	Ref
Rural	0.79 (0.23-2.74)	0.70 (0.31-1.57)	1.75 (0.84-3.66)	0.62* (0.42-0.91)

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Table S3: Multivariable models showing factors associated with contraceptive use among parenting adolescent girls and young women in Nigeria, Rwanda, Sierra Leone and Chad

Variables	Country			
	Nigeria aOR[95%CI]	Rwanda aOR[95%CI]	Sierra Leone aOR[95%CI]	Chad aOR[95%CI]
Age				
15-17	Ref	Ref	Ref	Ref
18-19	0.91 (0.49-1.70)	0.85 (0.28-2.62)	1.49 (0.88-2.54)	3.55* (1.17-10.74)
Marital status				
Never married	Ref	Ref	Ref	Ref
Married	1.90 (0.91-3.96)	2.83 (0.12-66.57)	0.32*** (0.19-0.55)	1.17 (0.21-6.43)
Cohabiting	1.44 (0.48-4.30)	9.57*** (3.63-25.21)	0.39** (0.19-0.83)	2.10 (0.36-12.38)
Widowed/divorced/separated*	-	1.88 (0.47-7.44)	1.01 (0.33-3.08)	0.54 (0.04-7.34)
Level of education				
No education	Ref	0.15 (0.01-1.77)	Ref	Ref
Primary	2.65* (1.11-6.34)	Ref	0.99 (0.46-2.12)	1.63 (0.60-4.48)
Secondary/higher	3.79** (1.73-8.26)	2.60 (0.93-7.30)	2.46** (1.37-4.42)	2.41 (0.87-6.68)
Parity				
One birth	Ref	Ref	Ref	Ref
Two births or more	0.67 (0.33-1.36)	1.02 (0.17-6.11)	1.27 (0.63-2.53)	0.84 (0.34-2.05)
Exposure to media				
No	Ref	Ref	Ref	Ref
Yes	1.21 (0.71-2.05)	0.81 (0.35-1.87)	1.48 (0.91-2.42)	3.23** (1.39-7.54)
Ideal number of children				

0-3	Ref	Ref	Ref	Ref
4-5	0.65 (0.31-1.37)	1.00 (0.32-3.12)	1.45 (0.88-2.38)	1.17 (0.27-5.10)
6+*	0.49 (0.21-1.13)	-	1.44 (0.64-3.26)	0.51 (0.11-2.27)
Wealth index				
Poorest	Ref	Ref	Ref	Ref
Poorer	0.94 (0.39-2.26)	1.65 (0.50-5.43)	2.85** (1.35-5.99)	1.13 (0.38-3.38)
Middle	1.48 (0.61-3.57)	2.39 (0.69-8.33)	2.14* (1.02-4.52)	0.32 (0.06-1.66)
Richer	2.59* (1.02-6.58)	1.02 (0.25-4.15)	2.64* (1.10-6.34)	0.17 (0.02-1.44)
Richest	3.49* (1.15-10.66)	0.55 (0.10-2.95)	1.72 (0.60-4.93)	5.04 (0.97-26.08)
Place of Residence				
Urban	Ref	Ref	Ref	Ref
Rural	1.12 (0.61-2.06)	0.69 (0.21-2.30)	0.95 (0.51-1.77)	4.53 (0.93-22.18)

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

*No category for 6+ ideal number of children in Rwanda; *widowed/divorced/separated in Nigeria was dropped in the regression model

Table S4: Multivariable models showing factors associated with contraceptive use among parenting adolescent girls and young women in Tanzania, Uganda, South Africa, Zambia and Zimbabwe

Variables	Country				
	Tanzania	Uganda	South Africa	Zambia	Zimbabwe
		aOR[95%CI]	aOR[95%CI]	aOR[95%CI]	aOR[95%CI]
Age					
15-17	Ref	Ref	Ref	Ref	Ref
18-19	1.94* (1.10-3.39)	1.28 (0.84-1.93)	1.26 (0.64-2.49)	2.11*** (1.46-3.07)	1.15 (0.67-2.00)
Marital status					
Never married	Ref	Ref	Ref	Ref	Ref
Married	1.36 (0.75-2.45)	2.44** (1.41-4.22)	2.99 (0.32-27.78)	3.39*** (2.36-4.88)	4.97*** (2.76-8.96)
Cohabiting	1.30 (0.67-2.50)	2.58*** (1.65-4.05)	1.23 (0.36-4.17)	1.16 (0.10-14.08)	9.59** (2.58-35.66)
Widowed/divorced/separated*	1.63 (0.73-3.64)	1.92* (1.05-3.51)	-	1.82 (0.75-4.41)	1.01 (0.47-2.14)
Level of education					
No education	Ref	Ref	Ref	Ref	Ref
Primary*	1.27 (0.60-2.66)	2.37 (0.79-7.06)	-	1.75 (0.79-3.85)	-
Secondary/higher	1.36 (0.53-3.50)	2.80 (0.88-8.90)	2.93 (0.99-8.51)	1.68 (0.73-3.86)	0.92 (0.53-1.60)
Parity					
One birth	Ref	Ref	Ref	Ref	Ref
Two births or more	0.70 (0.36-1.37)	1.13 (0.74-1.73)	1.92 (0.50-7.36)	0.71 (0.43-1.17)	0.64 (0.26-1.58)
Exposure to media					
No	Ref	Ref	Ref	Ref	Ref

Yes	0.78 (0.50-1.21)	1.14 (0.80-1.62)	0.96 (0.50-1.83)	1.52* (1.01-2.29)	1.02 (0.61-1.71)
Ideal number of children					
0-3	Ref	Ref	Ref	Ref	Ref
4-5	0.73 (0.43-1.23)	0.82 (0.55-1.24)	1.06 (0.34-3.27)	1.00 (0.70-1.43)	1.22 (0.72-2.09)
6+*	0.37* (0.18-0.78)	0.67 (0.39-1.18)	-	0.89 (0.53-1.48)	0.62 (0.23-1.70)
Wealth index					
Poorest	Ref	Ref	Ref	Ref	Ref
Poorer	1.34 (0.71-2.56)	1.30 (0.83-2.07)	1.22 (0.54-2.76)	1.38 (0.88-2.16)	0.42* (0.20-0.88)
Middle	2.03* (1.06-3.92)	1.79* (1.08-2.96)	1.08 (0.44-2.63)	1.61 (0.98-2.64)	0.75 (0.35-1.57)
Richer	0.77 (0.35-1.68)	1.50 (0.88-2.55)	0.60 (0.20-1.74)	1.95* (1.04-3.66)	0.64 (0.25-1.67)
Richest	1.41 (0.55-3.62)	2.16* (1.18-4.17)	1.29 (0.26-6.40)	1.61 (0.69-3.79)	0.73 (0.16-3.22)
Place of Residence					
Urban	Ref	Ref	Ref	Ref	Ref
Rural	0.90 (0.46-1.77)	0.92 (0.56-1.53)	1.57 (0.77-3.17)	1.02 (0.64-1.60)	0.79 (0.28-2.28)

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

*No category for primary in South Africa and Zimbabwe; No category for 6+ ideal number of children in South Africa;

*widowed/divorced/separated in South Africa was dropped in the regression model