

APPENDIX

Table 6: Odds ratios from bivariate logistics regression of intimate partner violence on high-risk fertility behaviour

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one Risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple Risk	Demographic Risk	Women interviewed
% (number)	24.05	14.16	5.91	1.28	40.10	0.59	10.84	2.00	8.24	23.57	63.66	22,236
Experience of any violence												
Never experience (R)	1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	16757
Ever-experience	0.74*	1.14	1.12	1.08	0.91	0.71	1.07	1.97	0.97	0.88*	0.86**	5479
Experience of physical violence												
Never experience (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	19044
Ever experience	0.63**	1.07	1.14	1.14	1.07	0.73	0.98	1.07	0.65	0.89	0.83**	3192
Experience of sexual violence												
Never(R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	21065
Ever	0.77	0.34*	1.07	1.19	1.07	0.67	1.04	1.13	0.10	0.98	1.06	1119
Experience of emotional violence												
Never (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	17935
Ever	0.73*	0.98	1.09	1.11	0.98	0.77	1.13	0.90	1.01	0.84**	0.86**	4281

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Table 5: Odds ratios from bivariate logistics regression of, intimate partner violence ,socio-economic and demographic and intervening variables on high-risk fertility behaviour

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one Risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple Risk	Demographic Risk	Women interviewed
% (number)	24.05	14.16	5.91	1.28	40.10	0.59	10.84	2.00	8.24	23.57	63.66	22,236
Experience of any violence												
Never experience (R)	1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	16757
Ever-experience	0.92	0.92	0.88	1.15	1.01	1.13	0.99	0.98	1.04	0.96	0.98	5479
Experience of physical violence												
Never experience (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	19044
Ever experience	0.85	0.88	0.85	1.25*	1.00	1.40	0.88	1.15	0.97	1.01	1.01	3192
Experience of sexual violence												
Never(R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	21065
Ever	0.88	0.37	0.91	1.28	0.95	0.47	1.31	0.94	0.58	1.03	1.03	1119
Experience of emotional violence												
Never (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	17935
Ever	0.87	0.79	0.89	1.19	1.06	1.20	1.08	0.87	1.11	0.85*	0.94	4281

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one Risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple Risk	Demographic Risk	Women Interviewed
% (number)	24.05	14.16	5.91	1.28	40.10	0.59	10.84	2.00	8.24	23.57	63.66	22,236
Respondent's decision on own health care												
Jointly with partner (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7705
Others	1.10	1.47	1.12	0.83	0.83*	2.04	1.15	0.68*	0.97	1.21*	0.93	13885
Respondent's decision on large household purchases												
Jointly with partner (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	8903
Others	0.89	1.15	1.06	0.99	1.06	0.95	0.76	1.62*	0.73	0.92	1.02	14614
Respondent's decision on visit to family												
Jointly with partner (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	11118
Others	0.64*	0.68	1.04	1.31*	1.07	0.60	0.88	0.17	1.24	0.93	1.02	12405
Contraceptive use												
Non-modern method (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2477
Modern method	1.68	2.51**	1.34	0.53**	0.93	0.60	0.93	0.94	1.23	0.82*	0.80*	21677

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one Risk	Too young & Too close	Too old & too Many	Too old & too close & too many	Too close & too Many	Multiple Risk	Demographic Risk	Women interviewed
% (number)	24.05	14.16	5.91	1.28	40.10	0.59	10.84	2.00	8.24	23.57	63.66	22,236
Highest educational level												
None(R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	11096
Primary	0.91	1.55	0.76*	1.34*	0.93	0.88	0.89	0.97	1.52	1.19	1.06	4182
Higher	0.82	1.99	2.01**	0.57**	0.71**	0.72	0.79	1.28	0.91	0.61**	0.51**	6958
Religion												
Christian(R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7977
Islam	3.59**	0.56*	1.10	0.63*	1.03	240	0.85	1.11	1.20	0.94	0.98	13910
Respondent's Occupation												
Not working(R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	6532
Manager/Clerical	0.24**	4.53**	0.82	0.92	0.81*	0.50*	2.65*	0.42*	0.59	1.35	1.00	824
Sales	0.40**	0.99	0.66**	2.47**	1.06	0.55	1.55**	0.73*	0.92	1.41**	1.45**	8772
Agriculture	0.48**	1.38	0.70*	2.21**	1.00	0.63	1.83**	0.70	0.64	1.64**	1.58**	2360
Skilled	0.73	0.96	0.91	1.53*	0.79*	0.50	1.11	1.15	0.73	1.38	1.03	1100
Un-skilled	0.43**	1.42	0.97	1.75**	1.03	0.70	1.04	1.01	1.04	1.19	1.20	2570
Partner's age												
Young (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	8545
Old	0.10**	9.33**	0.33**	6.36**	1.03	0.05**	39.11**	0.10**	14.5**	6.24**	3.40**	13090
Partner's educational level												
None (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	8794
Primary	0.92	0.28**	0.92	1.27*	1.18*	1.33	0.71*	1.65**	0.63	0.75**	0.94	4120
Higher	1.08	0.47*	1.47*	0.78	1.18*	1.56	0.76	1.44*	0.71	0.62**	0.81**	9322

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one Risk	Too young & Too close	Too old & too Many	Too old & too close & too many	Too close & too Many	Multiple Risk	Demographic Risk	Women interviewed
% (number)	24.05	14.16	5.91	1.28	40.10	0.59	10.84	2.00	8.24	23.57	63.66	22,236
Afraid of Husband												
No (R)	1.00	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	9093
Yes	0.87	0.69	1.20*	0.97	1.00	0.67	0.77	1.30*	1.21	1.00	1.00	12896
Polygyny												
No (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	14593
Yes	0.93	0.72	0.87	1.23*	1.02	0.74	1.00	1.23	0.68	0.96	1.03	6887
Wealth Index												
Poor (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	10453
Middle	1.21	1.68	0.96	0.94	0.98	2.08	1.08	0.99	0.74	1.05	1.03	4137
Rich	0.70	2.30	1.21	0.91	0.88	1.23	0.90	1.18	0.82	0.97	0.82*	7646
Place of residence												
Urban (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	7767
Rural	1.10	0.91	0.85	1.09	1.08	1.40	0.91	1.03	1.15	0.92	1.00	14469
Ethnicity												
Hausa/Fulani (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	10052
Igbo	0.58	0.62	1.85**	0.68*	1.13	0.54	1.08	0.95	1.18	1.03	1.09	2455
Yoruba	0.45*	1.86	0.71	1.29	0.81	0.89	3.24**	0.33**	0.69	0.82	0.68**	2469
Others	1.09	0.82	1.011	1.01	0.92	1.05	1.17	0.82	1.22	0.95	0.86	7214

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one Risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple Risk	Demographic Risk	Women interviewed
% (number)	24.05	14.16	5.91	1.28	40.10	0.59	10.84	2.00	8.24	23.57	63.66	22,236
Region of residence												
North (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	15331
South	1.25	2.73*	1.87**	0.54**	0.85	1.16	0.82	0.96	1.57	0.88	0.78*	6905
Partner's Alcohol Consumption												
No (R)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.09	18486
Yes	0.87	1.20	0.82	1.25	0.97	1.09	1.00	0.93	1.24	1.18*	1.10	3750

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Table 4: Cross-tabulation of Socio-economic and demographic Characteristics and High-Risk Fertility Behaviour

Characteristics	Single-risk					Multiple-risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple risk	Demographic Risk	Women interviewed
Highest educational level												
None	986(19.8)	49(10.0)	653(13.1)	3295(66.1)	1702(100.0)	86(2.8)	7(0.2)	1530(50.0)	1155(37.7)	289(9.4)	3046(27.5)	11096(100.0)
Primary	217(12.8)	45(2.7)	237(13.9)	1203(70.7)	2233(100.0)	22(1.9)	2(0.1)	619(53.0)	400(34.2)	126(10.8)	1311(31.4)	4182(100.0)
Higher	187(8.4)	162(7.3)	728(32.6)	1156(51.8)	8918(100.0)	17(1.7)	26(2.6)	539(53.8)	358(35.8)	62(6.2)	3723(53.5)	6958
χ^2	827.08					χ^2	95.3				χ^2	376.2
p-value	0.0000					p-value	0.0000				p-value	0.000
Religion												
Christian	214(7.6)	173(6.1)	735(26.0)	1705(60.3)	2827(100.0)	23(1.4)	30(1.9)	907(56.2)	513(31.8)	142(8.8)	3535(44.3)	
Islam	1158(19.3)	81(1.4)	855(14.3)	3870(64.9)	5964(100.0)	99(2.8)	3(9.2)	1728(49.0)	1381(39.2)	315(8.9)	4420(32.8)	
Others	5(7.3)	1(1.8)	8(12.1)	54(78.7)	69(100.0)	3(4.4)		43(64.7)	11(16.6)	10(14.2)	67(32.8)	
χ^2	522.3					χ^2	105.7				χ^2	376.2
p-value	0.0000					p-value	0.0000				p-value	0.0000
Respondent's Occupation												
Not working	715(25.2)	50(1.8)	588(20.7)	1487(52.4)	2840(100.0)	60(4.5)	3(0.2)	549(41.4)	593(44.7)	123(9.3)	2714(39.5)	6881(100.0)
Working	668(11.0)	206(3.4)	1022(16.9)	4160(68.7)	6055(100.0)	65(1.7)	29(0.8)	2129(54.7)	1317(33.9)	350(9.0)	5321(34.9)	15266(100.0)
χ^2	394.25	255(2.9)				χ^2	104.2				χ^2	47.0
p-value	0.0000					p-value	0.0000				p-value	0.0000
Partner's age												
Young	203(82.9)	-	31(12.9)	10(4.2)	244(100.0)	12(95.3)	-	-	1(4.7)	-	167(39.3)	425(100.0)
Adult	788(36.5)	5(0.2)	682(31.6)	684(31.7)	2159(100.0)	65(18.1)	-	5(1.4)	285(80.0)	2(0.4)	3474(58.0)	5989(100.0)
Older	359(5.7)	245(3.9)	866(13.8)	4802(76.6)	6272(100.0)	43(0.9)	33(0.7)	26(55.3)	1565(33.3)	463(1.0)	4245(27.9)	15000(100.0)
χ^2	2958.7					χ^2	1325.1				χ^2	1834.1
p-value	0.0000					p-value	0.0000				p-value	0.0000
Partner's educational level												
None (R)	788(20.5)	49(1.2)	492(12.8)	2518(65.5)	3847(100.0)	69(2.7)	6(0.3)	1329(51.5)	913(35.3)	265(10.3)	2364(26.7)	8794(100.0)

Primary	212(12.1)	38.9(2.2)	268(15.4)	1226(70.3)	1745(100.0)	24(2.3)	5(0.5)	511(49.5)	407(39.4)	86(8.3)	1342(32.6)	4210(100.0)
Higher	371(11.4)	169(5.2)	844(26.0)	1868(57.4)	3253(100.0)	32(2.0)	23(1.4)	836(52.7)	575(36.2)	122(7.7)	4292(47.0)	9133(100.0)
χ^2	453.7					χ^2					χ^2	884.01
p-value	0.0000					p-value	0.0362				p-value	0.0000
Partner's Taking Alcohol												
N	306(17.3)	193 (2.6)	1279(16.9)	4787(63.3)	7565(100.0)	116(2.7)	23(0.05)	2216(50.8)	1625(37.2)	386(8.8)	6555(35.5)	18000(10.0)
Yes	84(6.2)	64(73.4)	338(25.01)	867(64.1)	1353(100.0)	10(0.1)	10(0.1)	473(54.2)	288(33.0)	91(10.5)	1525(40.7)	3750(100.0)
χ^2	163.34					χ^2	19.19				χ^2	39.8
p-value	0.000					p-value	0.04				p-value	0.000
Income Disparity												
Earn more than	7(3.4)	18(87.9)	54(26.1)	127(61.6)	206(100.0)	2(1.5)	2(1.9)	76(57.3)	44(33.6)	7(5.6)	183(35.1)	520(100.0)
Not more than	593(11.3)	169(3.2)	880(16.8)	3599(68.7)	5241(100.0)	53(1.6)	23(0.7)	1803(54.0)	1159(34.7)	299(9.0)	4578(34.8)	13000(100.0)
Husband earn	1(5.3)	2(7.4)	3(11.1)	20(76.3)	26(100.0)				7(26.3)	4(14.2)	39(42.5)	92(100.0)
χ^2	45.7					χ^2	6.6				χ^2	2.5
p-value	0.0000					p-value	0.7165				p-value	0.4267
Afraid of Husband												
Not afraid	488(13.9)	154(4.4)	657(18.8)	2204(62.9)	3503(100.0)	48(2.3)	26(1.2)	1195(55.6)	683(31.7)	195(9.1)	3442(37.9)	9093(100.0)
Afraid	884(16.7)	103(1.9)	949(17.9)	3362(63.5)	5297(100.0)	76(2.5)	7(0.2)	1460(48.1)	1215(40.0)	277(9.1)	4564(35.4)	13000(100.0)
χ^2	59.5					χ^2	56.88				χ^2	15.18
p-value	0.0000					p-value	0.0000				p-value	0.0089
Polygyny												
No	967(17.3)	191(3.4)	1211(21.5)	3266(58.0)	5635(100.0)	85(2.9)	25(0.9)	1499(50.3)	1080(36.3)	290(9.8)	5978(41.0)	15000(100.0)
Yes	375(12.4)	52(1.7)	347(11.7)	2202(74.0)	2976(100.0)	34(1.6)	8(0.4)	1097(53.0)	759(36.6)	173(8.4)	1841(26.7)	6887(100.0)
χ^2	246.44					χ^2	16.31				χ^2	445.8016
p-value	0.0000					p-value	0.1334				p-value	0.0000
Living Arrangement												
Living together	1237(15.5)	225(2.8)	1441(18.0)	5093(63.7)	7995(100.0)	6965(35.4)	13000(64.6)					
Staying elsewhere	106(16.5)	24(3.8)	130(20.6)	369(58.7)	628(100.0)	887(48.4)	945(51.6)					
χ^2	7.75					χ^2	133.75					
p-value	0.1748					p-value	0.0000					
Wealth status												
Poor	938(0.35)	36(0.8)	642(13.7)	307(65.5)	4689(100.0)	78(2.8)	8(0.3)	1077(38.8)	282(10.2)	2775(100.0)	2988(28.6)	10000(100.0)

Middle	262(15.6)	41(2.5)	1089(64.9)	1089(64.9)	1678(100.0)	32(3.1)	3(0.3)	357(34.5)	282(10.2)	1035(100)	1424(34.4)	4137(100.0)
Rich	190(7.4)	178(7.0)	1491(58.5)	1491(58.5)	2550(100.0)	16(1.1)	23(1.6)	480(33.6)	90.7(8.8)	1429(100)	3668(48.0)	7646(100.0)
χ^2	616.12					χ^2	74.55		105(7.3)		χ^2	787.36
Table 3 : CROSS TABULATION OF INTERVENING VARIABLES AND HIGH-RISK FERTILITY BEHAVIOUR											p-value	0.000
Place of residence												
Urban	251(9.1)	159(5.8)	681(24.6)	1673(60.6)	2764(100.0)	23(1.4)	19.6(1.2)	575(34.1)	140(8.3)	1683(100.	3320(42.8)	7767(100.0)
Rural	1139(18.5)	97(1.6)	937(15.2)	3981(64.7)	6154(100.0)	103(2.9)	14.1(0.4)	1340(37.7)	337(9.5)	3555(100.	4760(32.9)	14000(100.0)
χ^2	348.98					χ^2	34.38				χ^2	230.29
p-value	0.0000					p-value	0.0044				p-value	0.0000
Ethnicity												
Hausa/Fulani	904(20.0)	42(0.9)	612(13.5)	2963(65.5)	4521(100.0)	82(3.0)	1255(46)	1101(41.0)	253(100.0)	2697(100.	2834(28.2)	10000(100.0)
Igbo/Ibo	32(3.6)	53(5.9)	333(37.1)	479(53.4)	896(100.0)	3(0.6)	292(52.	191(34.5)	56(10.2)	554(100.0	1006(41.0)	2455(100.0)
Yoruba	37(5.0)	76(10.2)	151(20.5)	473(64.3)	737(100.0)	4(0.9)	301(72.	86(20.5)	24(5.8)	418(100.0	1314(53.2)	2469(100.0)
Others	408(14.9)	83(3.1)	515(18.8)	1734(63.3)	2742(100.0)	32(2.4)	836(53.	531(34.0)	142(9.1)	1559(100.	2913(40.4)	7214(100.0)
χ^2	729.73					χ^2	135.77				χ^2	723.61
p-value	0.0000					p-value	0.0000				p-value	0.0000
Region												
North central	174(15.4)	41(3.7)	196(17.4)	714(63.5)	1125(100.0)	14(2.4)	10(1.7)				1290(42.9)	3008(100.0)
North east	353(20.5)	17(10.0)	268(15.8)	1053(62.3)	1690(100.0)	36(36.1)	-				1199(30.9)	3879(100.0)
North west	717(19.0)	33(0.9)	500(13.2)	2530(67.0)	3780(100.0)	55(24.5)	2(0.1)	344(58.0)	191(32.1)		2403(28.5)	8444(100.0)
South east	32(4.5)	39(5.4)	254(35.5)	389(54.5)	714(100.0)	7(1.5)	5(1.2)	453(45.8)	432(43.7)		757(39.4)	1922(100.0)
South west	60(8.9)	40(6.0)	168(25.0)	403(60.0)	671(100.0)	8(1.9)	6(1.4)	1093(48.3)	867(38.4)		856(43.8)	1956(100.0)
South south	54(5.8)	86(9.2)	233(24.8)	564(60.2)	937(100.0)	5(1.0)	10(1.9)	231(51.2)	155(34.4)		1576(52.1)	3027(100.0)
χ^2	726.03					χ^2	157.48	234(54.8)	136(32.0)		χ^2	770.72
p-value	0.0000					p-value	0.0000	333(64.8)	131(25.5)		p-value	0.0000

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Characteristics	Single-risk					Multipl e- risk					Any	No of
	Too Young	Too old	Too close	Too many	Only one risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple risk	Demograph ic Risk	Women interviewed
Newspaper												
No	1315(16.7)	162(2.1)	1280(16.	5096(64.9)	7853(100.0	121(2.6)	2369(51.0)	1713(36.8)	429(9.2)	4651(100.	6531(34.3)	19000(100.0
Yes	59(5.5)	93(9.3)	329(32.9)	519(51.9)	1000(100.0	4(0.7)	305(54.1)	193(34.2)	47(8.3)	563(100.0	151649.2)	3079(100.0)
χ^2	416.71					χ^2	48.00				χ^2	277.42
p-value	0.0000					p-value	0.0005				p-value	0.0000
Television												
No	1028(19.2)	64(1.2)	781(14.6)	3492(65.1)	5364(100.0	87(0.3)	1607(50.0)	1239(9.2)	298(9.2)	3242(100.	3587	12000(100.0)
Yes	358(15.6)	192(5.4)	832(23.6)	2141(60.8)	2523(100.0	36(1.8)	1072(54.7)	662(33.8)	166(8.5)	1960(100.	4450	9933(100.0)
χ^2	375.57					χ^2	32.52				χ^2	608.79
p-value	0.0000					p-value	0.0044				p-value	0.0000
Radio												
No	723(18.9)	45(1.2)	600(15.7)	2450(64.2)	3818(100.0	73(3.2)	1102(48.9)	872(38.7)	199(8.8)	2254(100.	2799	8871(100.0)
Yes	664(13.1)	211(4.2)	1011(19.	3187(62.8)	5073(100.0	53(1.8)	1580(53.4)	1034(35.0)	265(9.0)	2957(100.	5249	13000(100.0)
χ^2	147.41					χ^2	25.83				χ^2	158.77
p-value	0.0000					p-value	0.0161				p-value	0.0000
(Contraceptive use)												
Non-modern method	1354(16.6)	229(2.8)	1460(17.	5140(62.8)	8184(100.0	3(0.6)	298(63.6)	135(28.9)	29(6.2)	469(100.0	897	2100(100.0)
Modern method	36(4.9)	28(3.8)	157(21.4)	514(70.0)	734(100.0)	128(2.6)	2391(50.1)	1778(37.3)	448(9.4)	4770(100.	7183	20000(100.0)
χ^2	77.2					χ^2	35.51				χ^2	44.41
p-value	0.0000					p-value	0.0001				p-value	0.0000
Household decision making (Health)												
Jointly	309(10.7)	147(5.1)	613(21.3)	1813(62.9)	2882(100.0	19(1.2)	940(57.5)	520(31.8)	137(8.4)	1636(100.	3187(41.4)	7705(100.0)
Others	1039(18.0)	103(1.8)	965(16.7)	3669(63.5)	5776(100.0	100(2.9)	1660(48.4)	1329(38.7)	327(9.5)	3431(100.	4679(33.7)	140000(100.0)
χ^2	173.55					χ^2	58.34				χ^2	
p-value	0.0000					p-value	0.0000				p-value	
Household decision making (Purchase)												
Jointly	279(10.4)	146(5.4)	588(21.9)	1674(62.3)	2686(100.0	20(1.3)	934(59.0)	466(29.4)	140(8.8)	1583(100.	3105(42.1)	7375(100.0)

Others	1068(17.9)	104(1.8)	989(16.6)	(63.8)	5969(100.0)	100(2.9)	1666(47.8)	1383(39.7)	325(9.3)	3484(100.	4760(33.5)	14000(100.0)
χ^2	199.12					χ^2	95.02				χ^2	169.36
p-value	0.0000					p-value	0.0000				p-value	0.0000
Variables	Joint decision	Single (Visits)				Multiple-					Any	No of
Jointly	422risk	171(4.9)	741(21.0)	2199(62.2)	5333(100.0)	387(1.1)	1183(56.0)	687(32.6)	176(8.3)	3932(41.1)	3932(41.1)	9576(100.0)
Others	926	78(1.5)	837(16.3)	3283(64.1)	5124(100.0)	82(2.8)	1418(39.3)	1160(39.3)	289(9.8)	3938(32.8)	3938(32.8)	12000(100.0)
χ^2	169.23					χ^2	55.56				χ^2	172.32
p-value	0.0000					p-value	0.0001				p-value	0.0000

Source: NDHS, 2013 (Computed by the Author, 2015)

Parentheses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Table2: Cross-tabulation of Intimate Partner Violence and High-Risk Fertility Behaviour

	Too Young	Too old	Too close	Too many	Only one risk	Too young & Too close	Too old & too many	Too old & too close & too many	Too close & too Many	Multiple risk	Demographic Risk	Women interviewed
EMOTIONAL VIOLENCE												
Ever experienced	1177(16.3)	208(2.9)	1289(17.9)	4541(62.9)	7216(100.0)	108(0.3)	2196(51.0)	1601(37.0)	394(9.1)	4328(100.0)	6390(35.6)	18390(100.0)
Never experienced	212(12.5)	48(2.8)	328(19.3)	1110(65.4)	1697(100.0)	17(1.9)	487(53.8)	313(34.6)	83(9.2)	905(100.0)	1679(39.2)	4281(100.0)
χ^2	17.3					χ^2	3.91					20.91
p-value	0.06					p-value	0.6					0.00
SEXUAL VIOLENCE												
Ever experienced	1330(15.8)	252(3.0)	1525(18.1)	5324(63.2)	8431(100.0)	121(2.4)	2547(51.3)	1805(36.3)	461(9.3)	4966(100.0)	7668(36.4)	21000(100.0)
Never experienced	59(12.7)	5(1.0)	90(19.2)	313(67.1)	467(100.0)	4(1.7)	135(52.2)	102(39.2)	16(6.3)	259(100.0)	393(35.2)	1119(100.0)
χ^2	10.86					χ^2	3.7					0.79
p-value	0.07					p-value	0.6					0.52
PHYSICAL VIOLENCE												
Ever experienced	1255(16.3)	219(2.9)	1375(17.9)	4847(63.0)	7696(100.0)	113(2.5)	2335(51.4)	1649(36.3)	415(9.1)	4541(100.0)	6807(35.7)	19000(100.0)
Never experienced	135(11.0)	37(3.0)	243(19.9)	807(66.1)	1222(100.0)	13(1.8)	354(50.8)	264(37.9)	62(8.9)	697(100.0)	1273(39.9)	3192(100.0)
χ^2	25.00					χ^2	1.6					22.01
p-value	0.01					p-value	0.87					0.03
ANY VIOLENCE												
Ever experienced	1117(16.5)	189(2.8)	1202(17.7)	4266(63.0)	6773(100.0)	104(2.6)	2057(51.0)	1481(36.7)	370(9.2)	4037(100.0)	5947(35.5)	17000(100.0)
Never experienced	273(12.7)	68(3.2)	68(3.2)	1388(64.7)	2144(100.0)	22(1.8)	632(52.6)	432(36.0)	107(8.9)	1201(100.0)	2133(38.9)	5479(100.0)
χ^2	20.45					χ^2						23.04
p-value	0.03					p-value						0.00

Source: NDHS, 2013 (Computed by the Author

Parenteses are in Percentages

Column for too old and too close birth excluded from the model by STATA due to too few observation.

** Significant at $P \leq 0.01$; * significant at $P < 0.05$; R-reference category

Table 1: Percentage distribution of respondents according to socio-demographic and economic characteristics, Nigeria

(INDIVIDUAL FACTORS)	FREQUENCY	PERCENT
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AGE OF RESPONDENTS		
15-19	1021	4.5
20-24	4327	19.3
25-29	6200	27.7
30-34	4942	22.0
35+	5746	27.0
Total	22236	100.0
AGE AT FIRST MARRIAGE		
< 18	13073	58.8
18-24	7299	32.8
25+	1864	8.4
Total	22236	100.0
AGE AT BIRTH		
<18	1517	6.8
18-34	1726	77.6
35+	3456	15.5
Total	22236	100.0
MARITAL STATUS		
Currently in union/living with a man	21635	97.3
Formerly in union/living with a man	601	2.7
Total	22236	100.0
EDUCATIONAL ATTAINMENT		
No education	11096	49.9
Primary	4182	18.8
Postsecondary	6958	31.3
Total	22236	100.0
RELIGION		
Christian	7977	36.1
Islam	13910	63.0
Others	203	0.9
Total	22089	100.0

(RELATIONSHIP FACTORS)		
RESPONDENT EMPLOYMENT STATUS		
Not working	6881	31.1
Working	15266	68.9
Total	22147	100.0
INCOME DISPARITY		
Earn more than Partner	520	3.8
Not More than Partner	13156	95.6
Partner earn no money	92	0.7
Total	13768	100.0
AFRAID OF PARTNER		
No	9093	41.4
Yes	12896	58.7
Total	21989	100.0
POLYGYNY		
No	14593	67.9
Yes	6887	32.1
Total	21480	100.0
LIVING ARRANGEMENT		
Living together	19684	91.5
Partner live elsewhere	1832	8.5
Total	21516	100.0
SPOUSAL ATTRIBUTES		
PARTNER'S AGE		
Young	425	1.9
Adult	5989	27.7
Older	15221	70.4
Total	21635	100.0
PARTNER'S EDUCATION		
No education	8794	39.9
Primary	4120	18.7

Higher	9133	41.4
Total	22046	100.0
PARTNER'S OCCUPATION		
Not working	162	0.7
Working	21947	99.3
Total	22109	100.0
PARTNER DRINK ALCOHOL		
No	18486	83.1
Yes	3750	16.9
Total	22236	100.0
(COMMUNITY FACTORS)		
Wealth status		
Poor	10453	47.0
Middle	4137	18.6
Rich	7646	34.4
Total	22236	100.0
PLACE OF RESIDENCE		
Urban	7767	34.9
Rural	14469	65.1
Total	22236	100.0
ETHNICITY		
Hausa/Fulani	10052	45.3
Igbo	2455	11.1
Yoruba	2469	11.1
Others	7214	32.5
Total	22190	100.0
REGION		
North central	3008	13.5
North east	3879	16.4
North west	8444	40.0
South east	1922	8.7

South south	1956	8.8
South west	3027	13.6
Total	22236	100.0

**The number of observations for some variables may be less than 22,236 because of missing values (non-response and not applicable) have been excluded.*

Source: NDHS, 2013 [computed by the Author, 2015]