Contraceptive Implant Preferences Study

Table 1: Sociodemographic characteristics of contraceptive implant users

	Kenya(Kilifi County)
	n=300
Age (mean, SD)	(29.7, 6.5)
Education (highest level completed)	
None	12.0%(36)
Primary	55.3%(166)
Secondary/Vocational	22.0%(66)
College or University	9.7%(29)
Other	1.0%(3)
Current marital status	
Single	13.7%(41)
Living with a partner	1.7(5%)
Married	76.7%(230)
Divorced	4.3%(13)
Widowed	3.3%(10)
Other	0.3%(1)
Religion	
Catholic	8.0%(24)
Protestant/Other Christian	69.7%(209)
Muslim	14.0%(42)
Other	3.3%(10)
No religion	5.0%(15)
Number of living children	
None	1.3%(4)
One to two	53.0%(159)
Three to four	31.7%(95)
Five or more	14.0%(42)
Wealth Index	
Poorest	19.3%(58)
Poorer	24.3%(73)
Middle	20.7%(62)
Richer	20.7%(62)
Richest	15.0%(45)
Difficulty in reaching nearest facility with family planning services	
Very easy	19.0%(57)
Easy	47.0%(141)
Difficult	30.0%(90)
Very difficult	4.0%(12)

Table 2: Current Implant Use, Experience and Product Selection

	Kenya(Kilifi County)
	n=300
Implant currently being used	
Jadelle	33.3%(100)
Implanon NXT/Nexplanon	33.3%(100)
Levoplant/Sino-implant	33.3%(100)
Length of time implant has been used	
<3 months	11.3%(34)
3-5 months	11.0%(33)
6 months to 11 months	31.7%(95)
+ 1 year	41.3%(124)
Don't Know	4.7%(14)
Used a contraceptive implant previously	
Yes	44.7%(134)
No	55.3%(166)
Don't know/Don't remember	0.0%(0)
Same implant used previously	
Yes	43.3%(58)
No	56.0%(75)
Don't know/Don't remember	0.7%(1)
Where current implant was received	
Public Sector	*71.3%(214)*
Government Hospital	17.0%(51)
Government Health Center	23.0%(69)
Government Dispensary	31.3%(94)
Other Public	0.0%(0)
Private Sector	*24.7%(74)*
Faith-based facility	0.3%(1)
Non-faith based facility	0.0%(0)
Private hospital/clinic	24.3%(73)
Pharmacy/chemist	0.0%(0)
Nursing/maternity home	0.0%(0)
Other Source	*4.0%(12)*
Mobile clinic	3.7%(11)
Community-based distributor	0.0%(0)
Other	0.3%(1)
Provider type who inserted current implant	
Nurse/Midwife	66.7%(200)
Community health worker	0.7%(2)
Clinical or Medical Officer	9.0%(27)
Medical Officer/Specialist	17.0%(51)
Other	0.0%(0)
Don't know/unsure	6.7%(20)
Paid for current implant	
Yes	6.0%(18)
No	91.0%(273)

Don’t know/Don’t remember	3.0%(9)
Mean cost of implant	KES. 444.44
Paid for any other supplies associated with implant	
Yes	10.7%(32)
No	85.7%(257)
Don’t know/Don’t remember	3.7%(11)
Mean cost of other supplies	KES. 28.59
Experienced side effects with current implant	
Yes	60.0%(180)
No	40.0%(120)
Unsure	0.0%(0)
Side effects experienced	
Changes to bleeding pattern	85.6%(154)
Headaches	17.2%(31)
Abdominal pain	11.1%(20)
Acne changes	2.8%(5)
Weight changes	11.7%(21)
Breast tenderness	1.7%(3)
Dizziness	22.8%(41)
Mood changes	7.8%(14)
Nausea	5.6%(10)
Other	13.9%(25)
Tolerability of side effects	
Not at all tolerable	7.2%(13)
Somewhat tolerable	26.1%(47)
Mostly tolerable	30.0%(54)
Very tolerable	36.7%(66)
Preferred current implant	
Yes	85.3%(256)
No	9.0%(27)
Did not have a preference	5.7%(17)
Had a choice of which implant to use	
Yes: was able to choose	79.0%(237)
Yes: options were given but not available that day	6.7%(20)
No: No other product was available	1.7%(5)
No: No other options were given	12.7%(38)
Don’t know/Don’t remember	0.0%(0)
Was told why no other implant was available	
Yes	76.0%(19)
No	24.0%(6)
Don’t remember	0.0%(0)

Table 3: Biodegradable Implant (BDI) Preferences

	Kenya
	n=300
Interest in finding out more information about BDIs	
Not at all interested	5.3%(16)
Somewhat not interested	5.7%(17)
Neutral—neither interested nor not interested	8.3%(25)
Somewhat interested	38.7%(116)
Extremely interested	42.0%(126)
Likelihood of using BDI at some point in the future	
Not at all likely	5.0%(15)
Somewhat not likely	4.7%(14)
Neutral	8.3(25%)
Somewhat likely	49.7%(149)
Extremely likely	32.3%(97)
How soon she might try the BDI if it was available to her	
Within 1 month	26.3%(79)
Within 6 months	16.7%(50)
6 months to 1 year	7.3%(22)
1 year to 2 years	12.7%(38)
More than 2 years	27.0%(81)
Do not want to try	10.0%(30)
Perception of the BDI as a better form of contraception than other options (or existing implants	
Slightly worse than existing options	6.0%(18)
It offers nothing better than existing options	10.3%(31)
It offers something slightly better than existing options	30.7%(92)
Does not have enough information to know if it is better/Undecided	13.7%(41)
It offers something noticeably better than existing options	
It offers something significantly better than existing options	39.3%(118)

Test of Associations

Table 1: Association between socio-demographic variables and Implant type

Characteristics	Implant preference				Chi-square	p-value
	Jadelle n(%)	**Implanon NXT n(%)**	**Levoplant n(%)**	**Total N(%)**		
Age category						
<25yrs	19(26.8)	27(38.0)	25(35.2)	71(100)	2.802	0.591
25-34yrs	52(33.6)	52(33.6)	51(32.9)	155(100)		
Over 35yrs	29(39.2)	21(28.4)	24(32.4)	71(100)		
Marital status						
Married	91(33.0)	93(33.7)	92(33.3)	276(100)	0.272	0.873
Unmarried	9(37.5)	7(29.2)	8(33.3)	24(100)		
Education level						
None	15(41.7)	9(25.0)	12(33.3)	36(100)	9.604	0.651
Primary	51(40.0)	61(20.0)	54(40.0)	166(100)		
Secondary/ Vocational	26(39.3)	20(31.2)	20(29.5)	66(100)		
College/ University	6(17.6)	9(35.3)	14(47.1)	29(100)		
Other	2(67.3)	1(33.3)	0(0)	3(100)		
Religion						
Catholic	8(33.3)	10(41.7)	6(25.0)	24(100)	3.015	0.807
Protestant/ Other Christian	69(31.4)	75(34.3)	75(34.3)	219(100)		
Muslim	17(40.5)	11(26.2)	14(33.3)	42(100)		
No religion	6(40.0)	4(26.7)	5(33.3)	15(100)		
Number of living children						
None	1(25.0)	1(25.0)	1(50.0)	4(100)	4.188	0.651
One to two	53(33.3)	57(35.9)	49(30.8)	159(100)		
Three to four	31(32.6)	33(34.7)	31(32.6)	95(100)		
Five or more	15(35.7)	9(21.4)	18(42.9)	42(100)		
Wealth Index						
Poorest	25(43.1)	16(27.6)	17(29.3)	58(100)	12.018	0.150
Poorer	21(28.8)	27(37.0)	25(34.3)	73(100)		
Middle	17(27.4)	22(35.5)	23(37.1)	62(100)		
Richer	28(45.2)	18(29.0)	16(25.8)	62(100)		
Richest	9(20.0)	17(37.8)	19(42.2)	45(100)		

Table 2: Association between source of current implant, cost and the current implant type

	Current Implant Type				Chi-square	p-value
Source	**Jadelle n(%)**	**Implanon NXT n(%)**	**Levoplant n(%)**	**Total N(%)**		
Public sector	70(32.7)	59(27.6)	85(39.7)	214(100)	18.478	0.001
Private sector	24(32.4)	37(50.0)	13(17.6)	74(100)		
Other source	6(50.0)	4(33.3)	2(16.7)	12(100)		
Paid for current Implant						
No	94(34.4)	85(31.1)	94(34.4)	273(100)	7.593	0.108
Yes	4(22.2)	9(50.0)	5(27.8)	18(100)		
Don't remember	2(22.2)	6(66.7)	1(11.1)	9(100)		

Table 3: Source of current implant by Age category

	Source of Current Implant				Chi-square	p-value
	Public sector n(%)	**Private sector n(%)**	**Other source**	**Total N(%)**		
<25yrs	49(69.0)	22(31.0)	0(0.0)	71(100)	5.646	0.227
25-34yrs	110(71.0)	37(23.9)	8(5.1)	155(100)		
Over 35yrs	55(74.3)	15(20.3)	4(5.4)	74(100)		

Table 4: Source of current implant and whether paid for the implant

	Source of Current Implant				Chi-square	p-value
Paid for current Implant	**Public sector n(%)**	**Private sector n(%)**	**Other source**	**Total N(%)**		
No	206(75.4)	55(20.2)	12(4.4)	273(100)	35.162	0.000
Yes	4(22.2)	14(77.8)	0(0.0)	18(100)		
Don't remember	4(44.4)	5(55.6)	0(0.0)	9(100)		

Table 5: Average cost for current implant

	Current Implant cost (excluding other costs)			
Implant type	**Mean (Ksh.)**	**SD**	**IQR (Ksh.)**	**p-value**
Jadelle	600	621.83	800(1000-200)	0.449
Implanon NXT	367	141.42	300(500-300)	
Levoplant	460	89.44	0(500-500)	
Source				
Public sector	300	163.30	200(400-200)	0.284
Private sector	486	318.31	200(500-300)	
Other source	-	-	-	

Table 6: Experienced side effects with current implant

	Experienced side effects on the Current Implant Type			Chi-square	p-value
Source	**No n(%)**	**Yes n(%)**	**Total N(%)**		
Jadelle	44(44.0)	56(56.0)	100(100)	3.083	0.214
Implanon NXT	33(33.0)	67(67.0)	100(100)		
Levoplant	43(43.0)	57(57.0)	100(100)		
Age category					
<25yrs	26(36.6)	45(63.4)	71(100)	1.016	0.602
25-34yrs	61(39.4)	94(60.6)	155(100)		
Over 35yrs	33(44.6)	41(55.4)	74(100)		
Used implant prior					
No	60(36.1)	106(63.9)	166(100)	2.302	0.129
Yes	60(44.8)	74(55.2)	134(100)		
Prefer current Implant					
No	4(14.8)	23(85.2)	27(100)	9.134	0.010
Yes	111(43.4)	145(56.6)	256(100)		
Didn't have preference	5(29.4)	12(70.6)	17(100)		

Table 7: Side effects experienced by implant Type

	Current Implant Type			
Side effects	**Jadelle n(%)**	**Implanon NXT n(%)**	**Levoplant n(%)**	**Total N(%)**
Changes to bleeding pattern	51(91.1)	57(85.1)	46(80.7)	154(85.6)
Headaches	10(17.9)	10(14.9)	11(19.3)	31(17.2)
Abdominal pain	10(17.9)	9(13.4)	1(1.8)	20(11.1)
Acne changes	3(5.4)	0(0.0)	2(3.5)	5(2.8)
Weight changes	7(12.5)	8(11.9)	6(10.5)	21(11.7)
Breast tenderness	2(3.6)	0(0.0)	1(1.8)	3(1.7)
Dizziness	13(23.2)	16(23.9)	12(21.1)	41(22.8)
Mood changes	5(8.9)	5(7.5)	4(7.0)	14(7.8)
Nausea	3(5.4)	4(6.0)	3(5.3)	10(5.6)
Other	9(16.1)	9(13.4)	7(12.3)	25(13.9)
Valid N	56	67	57	180

Table 8: Side effects experienced by age category

	Age category			
Side effects	**<25yrs n(%)**	**25-34yrs n(%)**	**>=35yrs n(%)**	**Total N(%)**
Changes to bleeding pattern	35(77.8)	87(92.6)	32(78.1)	154(85.6)
Headaches	4(8.9)	19(20.2)	8(19.5)	31(17.2)
Abdominal pain	4(8.9)	11(11.7)	5(12.2)	20(11.1)
Acne changes	1(2.2)	2(2.1)	2(4.9)	5(2.8)
Weight changes	7(15.6)	9(9.6)	5(12.2)	21(11.7)
Breast tenderness	1(2.2)	1(1.1)	1(2.4)	3(1.7)
Dizziness	13(28.9)	23(24.5)	5(12.2)	41(22.8)
Mood changes	4(8.9)	7(7.5)	3(7.3)	14(7.8)
Nausea	3(6.7)	6(6.4)	1(2.4)	10(5.6)
Other	6(13.3)	16(17.0)	3(7.3)	25(13.9)
Valid N	45	94	41	180

Table 9: Tolerability of side effects

	Tolerability of side effects on the Current Implant Type				Total N(%)	p-value
	Not at all tolerable n(%)	**Somewhat tolerable n(%)**	**Mostly tolerable n(%)**	**Very tolerable n(%)**		
Jadelle	5(8.9)	13(23.2)	21(37.5)	17(30.4)	56(100)	0.768
Implanon NXT	5(7.5)	18(26.9)	17(25.4)	27(40.3)	67(100)	
Levoplant	3(5.2)	16(28.1)	16(28.1)	22(38.6)	57(100)	
Age category						
<25yrs	2(4.4)	14(31.1)	15(33.3)	14(31.1)	45(100)	0.757
25-34yrs	9(9.6)	21(22.3)	27(28.7)	37(39.3)	94(100)	
Over 35yrs	2(4.9)	12(29.3)	12(29.3)	15(36.6)	41(100)	
Used implant prior						
No	8(7.6)	29(27.4)	31(29.2)	38(35.8)	106(100)	0.962
Yes	5(6.8)	18(24.3)	23(31.1)	28(37.8)	74(100)	
Prefer current Implant						
No	1(4.3)	4(17.4)	8(34.8)	10(43.5)	23(100)	0.734
Yes	10(6.9)	40(27.6)	42(29.0)	53(36.5)	145(100)	
Didn't have preference	2(16.7)	3(25.0)	4(33.3)	3(25.0)	12(100)	

Table 10: Had a choice of which implant to use

	Current Implant Type			
Had Choice	**Jadelle n(%)**	**Implanon NXT n(%)**	**Levoplant n(%)**	**p-value**
No: No other options were given	13(13.0)	9(9.0)	16(16.0)	0.431
No: No other product was available	2(20.0)	2(20.0)	1(10.0)	
Yes: options were given but not available that day	3(30.0)	8(80.0)	9(90.0)	
Yes: was able to choose	82(82.0)	81(81.0)	74(74.0)	
Total n(%)	100(100)	100(100)	100(100)	

Table 11: Had a choice of which implant to use by source of current implant

	Source of Current Implant Type			
Had Choice	**Public sector n(%)**	**Private Sector n(%)**	**Other sector n(%)**	**p-value**
Yes: was able to choose	28(13.1)	10(13.5)	0(0)	0.386
Yes: options were given but not available that day	4(1.9)	1(1.4)	0(0)	
No: No other product was available	18(8.4)	2(2.7)	0(0)	
No: No other options were given	164(76.6)	61(82.4)	12(100)	
Total n(%)	214(100)	74(100)	12(100)	

Table 12: Association between socio-demographic variables and Likelihood of using BDI at some point in the future

	Likelihood of using BDI at some point in the future					Total n(%)	p-value
Source	**Not at all likely n(%)**	**Somewhat not likely n(%)**	**Neutral n(%)**	**Somewhat not likely n(%)**	**Extremely Likely n(%)**		
Implant type							
Jadelle	7(7.0)	4(4.0)	5(5.0)	50(50.0)	34(34.4)	100(100)	0.880
Implanon NXT	4(4.0)	5(5.0)	11(11.0)	49(49.0)	31(31.0)	100(100)	
Levoplant	4(4.0)	5(5.0)	9(9.0)	50(50.0)	32(32.0)	100(100)	
Age category							
<25yrs	5(7.0)	2(2.8)	4(5.6)	36(50.7)	24(33.8)	71(100)	0.878
25-34yrs	6(3.9)	8(5.2)	16(10.3)	74(47.7)	51(32.9)	155(100)	
Over 35yrs	4(5.4)	4(5.4)	5(6.8)	39(52.7)	22(29.7)	74(100)	
Marital Status							
Married	12(4.4)	12(4.4)	24(8.6)	135(48.9)	93(33.7)	276(100)	0.158
Unmarried	3(12.5)	2(8.3)	1(4.2)	14(58.3)	4(16.7)	24(100)	
Religion							
Catholic	0(0.0)	1(4.2)	2(8.3)	16(66.7)	5(20.8)	24(100)	0.109
Protestant/ Other Christian	9(4.1)	12(5.5)	15(6.9)	107(48.9)	76(34.7)	219(100)	
Muslim	6(14.3)	0(0.0)	6(14.3)	19(45.2)	11(26.2)	42(100)	
No religion	0(0)	1(6.7)	2(13.3)	7(46.7)	5(33.3)	15(100)	
Number of living children							
None	0(0.0)	0(0.0)	0(0.0)	3(75.0)	1(25.0)	4(100)	0.942
One to two	8(5.0)	7(4.4)	11(6.9)	79(49.7)	54(34.0)	159(100)	
Three to four	3(3.2)	5(5.3)	10(10.5)	46(48.4)	31(32.6)	95(100)	
Five or more	4(9.5)	2(4.8)	4(9.5)	21(50.0)	11(26.2)	42(100)	