

Table 1: Distribution of study population by study sites

Settlement	Host	Refugee	Total
	n (%)	n (%)	N (%)
Mirieyi	214 (33.2%)	57 (8.6%)	271 (20.4%)
Nyumanzi	219 (33.9%)	307 (46.5%)	526 (40.2%)
Pagirinya	213 (32.9%)	297 (44.9%)	510 (39.1%)
Total	646 (100%)	661 (100%)	1307 (100%)

Table 2: Sampling of refugees and host population per site

Stage	Host	Refugee
1). Sub county/Zones	4 Sub counties	3 Zones
2). Pparishes/Villages	8 Parishes	3 Villages
3). Villages/Blocks	16 Villages	9 Blocks
4). Households/Households	496 Households	496 Households
Total	646 respondents interviewed	661 respondents interviewed

Table 3: Socio-demographic characteristics of respondents

Characteristics	Host		Refugee		Total	
Sex	N= 646	Percent	N=661	Percent	N=1307	Percent
Male	258	39.9	216	32.7	474	36.3
Female	388	60.1	445	67.3	833	63.7
Marital status						
Never married	42	6.5	119	18.0	161	12.3
Married (Monogamy)	470	72.8	409	61.9	879	67.3
Married (Polygamy)	95	14.7	100	15.1	195	14.9
Widowed	11	1.7	15	2.3	26	1.9
Divorced	6	0.9	4	0.6	10	0.8
Separated	22	3.4	14	2.1	36	2.8
Age group (Years)						
<25	179	27.7	228	34.5	407	31.1
25 – 35	254	39.3	256	38.7	510	39.0
36 – 45	140	21.7	115	17.4	255	29.5

46-55	59	9.1	53	8.0	112	8.6
>60	14	2.2	9	1.4	23	1.8
Mean age Overall = (SD):	32.34 [10.30]		30.7 [10.07]		32	10
Median age Overall = IQR:	30 (±13)		29 (±13)		30 (±13)	
Occupation						
Peasant	473	36.2	504	38.6	977	74.8
Semiskilled	136	10.4	129	9.9	265	20.3
Skilled	37	2.8	28	2.1	65	4.9
Religion						
Catholic	492	37.6	228	17.4	720	55.1
Anglican	151	11.6	176	13.5	327	25.0
Pentecostal	27	4.2	50	7.6	77	5.9
Other Christian	13	2.0	38	5.8	51	3.9
Moslem	19	2.9	7	1.1	26	1.9
Other religion	6	0.9	100	15.1	106	8.1
Education						
No of formal education	472	36.1	248	18.9	720	55.1
Primary not completed	109	8.3	218	16.7	327	25.0
Primary Completed	27	2.1	50	3.8	77	5.9
Secondary (S1-4)	13	0.9	38	2.9	51	3.9
Secondary (S1-6)	19	1.5	7	0.5	26	1.9
Tertiary	6	0.5	100	7.7	06	8.1
Number of living children						
None	48	7.4	127	19.2	175	13.4
1 -3	351	54.3	210	31.8	561	42.9
4-6	198	30.3	257	38.9	455	34.8
7-10	45	6.9	62	9.4	107	8.2
Above 10	4	0.6	5	0.8	9	0.7
Duration of living in the area						
<1 year	21	3.3	17	2.6	38	2.9
1-2 years	45	6.9	56	8.5	101	7.7
3-5 years	77	11.9	323	48.9	400	30.6
>5 years	489	75.7	264	39.9	753	56
Don't know	14	2.2	1	0.2	15	1.2

Ethnicity/tribe

Dinka	0	0	354	53.6	354	27.1
Madi	607	93.9	259	39.2	866	66.2
Lugbara	34	5.3	4	0.6	38	2.9
Nuer	0	0	16	2.4	16	1.2
Kakwa	0	0	4	0.6	4	0.3
Others	5	0.8	24	3.6	29	2.2

Table 4: Ever used any method of family planning**Ever used any method**

Variable	Host		Refugee		Total
	N	(%)	N	(%)	
Yes	269	41.6	266	40.2	535 (41%)
No	377	58.4	395	59.8	772 (59%)
Total	646		661		1307 (100%)

Table 5: Reproduction and Fertility Preferences**Reproductive and fertility preference**

Variable	Host		Refugees		Total	Statistical	
	N=646		N=661			Significance	
Would you like to have another child	Freq	Percent	Freq	Percent	Freq	Pearson Chi square	P- value
Yes	158	24.5	126	19	284 (21.7%)	5.59	0.018
No	488	75.5	535	81	382 (71.4%)		0.02
Number of children preferred							
One	98	20.1	42	8	140 (13.7%)	66.82	0.01
Two	200	40.9	156	29	356 (34.8%)		0.01
Greater than three	190	38.9	337	62.9	527 (51.5%)		0.00
Reason for non-preference to use modern family planning							
Have other children already	53	33.5	20	15.9	73 (25.7)	26.08	0.00
Cannot get pregnant	13	8.2	5	3.9	18 (6.3%)		0.97
I did permanent method	4	2.5	4	3.1	8 (2.2%)		0.20

I have no money	19	12.0	17	13.5	36 (12.7%)		0.04
No husband	22	14	24	19	46 (16.2%)		0.01
No response	9	6	1	1	10 (3.5%)		0.26
Un decided	21	13.3	24	19.1	45 (15.9%)		0.00
Others	17	10.8	31	24.6	48 (16.9%)		0.00
Age of the last child							
< 6 months	157	24.3	0	0	157 (24.3%)		0.24
1 year	192	29.7	192	30	180 (27.2%)	4.37	0.78
2 years	135	20.1	163	24.7	298 (22.8%)		0.07
> 2 years	162	25.1	177	26.8	339 (25.9%)		0.22
Preferred spacing interval from the last baby to the next birth of another child							
< 6 months	21	3.3	54	8.2	75 (5.7%)	32.04	0.00
1 year	70	10.8	112	17	182 (3.9%)		0.89
2 years	266	41.2	270	40.9	536 (41.0%)		1.49
> 2 years	289	44.7	225	34.0	514 (39.3%)		1.94
Method to prevent pregnancy before the desired time							
Use modern FP method	334	51.7	171	25.7	505 (38.6%)	166.55	0.00
Abstain till then	49	7.6	216	10.4	166 (12.7%)		0.08
Use traditional method	97	15.0	69	1.40	166 (12.7%)		0.50
Nothing	126	19.5	157	23.8	283 (21.6%)		0.30
Don't know	40	6.2	48	7.2	88 (6.7%)		0.27

Table 6: Reasons for not using modern family planning methods

Variable	Host		Refugee		Total	Statistical significance	
	Freq	Percent	Freq	Percent	Freq	Pearson	
						Chi square	P- value
Infrequent sex	21	5.6	69	17.5	90(11.7%)		0.04
Method failure	0	0	2	0.5	2(0.3%)		1
Wanted to conceive	19	5.0	27	6.8	46(5.9%)		0.03
Husband disapproved	22	5.8	22	5.6	44(5.7%)		0.00
No method available	5	1.33	8	2.0	13(1.6%)		0.247
Fear of side effects	135	35.8	23	5.8	158(20.5%)		0.00
Lack of access/too far	7	1.8	0	0	7(0.9%)	142.29	1
Too costly	0	0	1	0.3	1(0.1%)		1
Inconvenient to use	19	5.04	9	2.3	28(3.6%)		0.00
Reached menopause	2	0.5	5	1.3	7(0.9%)		0.75
I don't want	107	28.4	181	45.8	288(37.3%)		0.02
Peers refused	6	1.6	4	1.0	10(1.3%)		0.02
Others	34	9.0	44	11.1	78(10.1%)		0.06

Table 7: Available family planning service points

							Statistical	
	Host		Refugee		Total		significance	
							Pearson	
Responses	Freq	Percent	Freq	Percent	Freq	Percent	Chi square	P- value
Health centre/hospital	599	92.7	50	7.6	649	11.7%		0.00
Private clinic	3	0.5	36	15.5	39	2.9%		0.00
Drug shops	4	0.6	5	0.8	9	0.7%		0.68
VHT/TBA	37	5.7	31	4.7	68	5.2%		0.63
Others	3	0.5	22	3.3	25	1.9%		0.00

Keys: VHT = Village health team; TBA = Traditional birth attendants

Table 8: Family planning methods being used

Preferred methods	Host		Refugees		Total
	N=646		N=661		
Responses	Freq	Percentage	Freq	Percentage	Freq
Implant	36	18.9	37	20	73 (19.3%)
IUD	4	2.0	5	3	39(2.3%)
Injections	40	20.9	25	13.3	65 (17.2%)
Pills	12	6.3	8	4.3	20 (5.3%)
ECP	5	2.6	9	4.8	14 (3.7%)
Male condoms	65	34.0	43	22.9	108 (28.5%)
Female condoms	4	2.1	3	1.6	7 (1.9%)
LAM	5	2.7	8	4.2	13 (3.4%)
Cycle beads	2	1.1	10	5.3	12 (3.2%)
Rhythm method	8	4.2	16	8.5	24 (6.3%)
Withdrawal	3	1.6	12	6.4	15 (3.9%)
Diaphragm	1	0.5	11	5.9	12 (3.2%)
Male sterilization	1	0.5	0	0	1 (0.3%)
Female sterilization	5	2.6	1	0.5	6 (1.6%)
Others	17	10.8	31	24.6	48 (16.9%)

Keys

LAM= Lactational Amenorrhea

ECP= Emergency Contraceptive Pill; IUD = Intra Uterine Device

Table 9: Multivariable analysis of factors associated with decision for family planning use among host population

Variable	Statistical		
	Crude OR [95% CI]	AOR [95% CI]	Significance
Sex			
Male	ref	ref	ref
Female	0.25 [0.12-0.53]	0.2 [0.06-1.40]	0.12
Occupation			
Peasant	ref	ref	ref
Semi-skilled	3.55 [1.59-7.90]	0.57 [0.15-2.17]	0.42
Skilled	3.75 [0.82-17.00]	3.99 [0.31-50.61]	0.28
Religion			
Catholic	ref	ref	ref

Anglican	4.26 [1.61-11.29]	6.21 [1.11-34.57]	0.04
Pentecostal	1.73 [0.46-6.51]	0.22 [0.03-1.62]	0.14
Other Christians	1.30 [0.24-6.88]	2.95 [0.11-79.26]	0.52
Muslim	2.60 [2.59-0.29-22.70]	1.02 [0.02-65.56]	0.99
Plans to prevent pregnancy if baby is more than 1 year, before the desired time			
Use modern FP method	ref	ref	ref
Abstain	0.05 [0.01-1.95]	0.02 [0.01-0.05]	0.00*
Use traditional method	0.09 [0.04-0.25]	0.11 [0.02-0.49]	0.04*
Nothing	0.08 [0.03-0.20]	0.05 [0.01-0.15]	0.00*
Don't know	0.38 [0.09-1.59]	0.98 [0.98-9.76]	0.98
Main decision maker for FP use			
Respondent decision	ref	ref	ref
Husband/partner	1.067 [0.33-3.46]	0.97 [0.17-5.69]	0.83
Joint Decision	2.71 [1.47-4.50]	2.69 [0.89-138.39]	0.04*
Others	0.59 [0.61-0.08]	0.46 [0.06-3.69]	0.46
As a user, what would stop you from using FP methods in future?			
Side effects	ref	ref	ref
Peer advise	0.95 [0.19-4.77]	1.55 [0.79-30.59]	0.77
Rejection by husband	0.39 [0.18-0.87]	0.28 [0.63-4-1.31]	0.11
Rejection by mother in law	0.12 [0.01-1.37]	0.14 [0.01-33.048]	0.48
Fear to have abnormal child	0.52 [0.23-1.18]	0.32 [0.74-1.44]	0.14
I will not stop	0.68 [0.29-1.61]	3.82 [0.72-20.31]	0.12
How the humanitarian situation affects women's personal decisions and choice to use family planning? methods in this community?			
Lack of information	ref	ref	ref
Language barrier	2.58 [0.56-11.74]	5.97 [0.34-40.83]	0.22
Lack of method of choice	0.87 [0.40-1.89]	2.07 [0.53-8.07]	0.29
Others	0.22 [0.08-0.57]	0.30 [0.04-2.13]	0.23
What stops women and men from making decision to use FP services in the refugee and host communities?			
Cultural beliefs	ref	ref	ref
Lack of information	1.93 [0.62-5.97]	0.37 [0.02-5.19]	0.46
Lack of husband support	0.66 [0.21-2.11]	0.36 [0.03-5.01]	0.45
Interest for large families	0.42 [0.12-1.59]	0.02 [0.00-0.40]	0.11
What happens to women who may not consult the key actors prior to FP use especially at family level?			

Rejection	ref	ref	ref
Harassment	0.40 [0.13-1.21]	0.07 [0.01-0.79]	0.03*
Separation/Divorce	0.14 [0.04-0.47]	0.03 [0.00-0.35]	0.01*
Method removed by force	0.29 [0.07-1.12]	0.38 [0.03-5.48]	0.48
Husband marries second wife	0.50 [0.11-2.09]	0.50 [0.03-7.87]	0.62
Nicknamed	0.14 [0.14-1.27]	0.26 [0.66-6.27]	0.17
None (nothing)	0.14 [0.00-2.67]	0.20 [0.00-1.05]	0.05*

Table 10: Multivariable analysis of factors associated with decision for family planning use among refugee population

variable	Crude OR	AOR [95% CI]	Statistical significance
Religion			p-value
Catholic	ref	ref	ref
Anglican	3.41[0.00-1.67]	5[4.75-13.23]*	0.00
Pentecostal	2.04[0.20-0.68]	7.05[2.8-4.88]*	0.01
Other Christian	2.07[0.23-0.62]	14.82[0.84-261.05]	0.07
Moslem	0.64[0.67-0.09]	0.95[0.03-27.46]	0.97
Other religion	1.15[0.71-0.52]	9.53[1.19-37.45]*	0.03
Education			
No formal education	ref	ref	ref
Primary- not completed	2.49[1.04-5.96]	5.45[1.87-12.99]*	0.00*
Primary –completed	3.46[1.43-8.33]	4.05[1.61-12.02]*	0.02*
Secondary -not completed	3.01[1.29-7.00]	12.15[1.65-89.02]*	0.01*
Secondary –completed	6.0[1.48-24.20]	8.35[2.20-36.03]	0.99
Tertiary	3.44[0.94-12.65]	2.17[0.11-43.08]*	0.03
What made respondents start using modern family planning methods			
Spacing children	ref	ref	ref
Husband advise	0.62[0.27-1.40]	0.07[0.01-0.56]*	0.01
Mother in law advise	1	1	1
Peer Advise	1.46[0.53-4.02]	0.82[0.11-5.90]	0.84
Health workers advise	1.52[0.69-3.54]	0.94[0.13-25.83]	0.95
Sensitization on media	0.89[0.47-1.67]	9.67[0.37-25.83]	0.17
Self-decision	0.24[0.09-0.65]	2.24[0.44-11.40]	0.33

Main decision maker for FP use

Mainly respondent decision	ref	ref	ref
Mainly husband/partner	0.98[0.54-1.82]	1.98[0.22-18.08]	0.54
Joint Decision	2.23[1.41-3.52]	6.43[1.78-16.08]*	0.01
Mother in law	0.45[0.00-5.60]	0.23[0.00-26.00]	0.55
Father in law	2.16[0.23-19.85]	0.67[0.08-5.76]	0.72
Peers	0.45[0.21-0.96]	0.42[0.01-63.72]	0.74

As a user, what would stop you from using FP methods in future?

Side effects	ref	ref	ref
Peer advise	0.31[0.01-13.51]	0.28[0.05-1.65]	0.15
Rejection by husband	0.11[0.11-1.15]	0.77[0.14-4.22]	0.76
Rejection by mother in law	0.04[0.00-18.91]	0.08[0.05-11.91]	0.40
Rejection by father in law	8.91[0.02-30.55]	011.91[0.02-50.55]	0.82
Fear of abnormal child	0.13[0.013-1.322]	0.52[0.08-3.27]	0.48
Will not stop	2.61[0.84-7.99]	6.21[1.97-14.41]	0.01*

Were you told by the provider about side effects or problems you might have with the chosen method?

No	ref	ref	ref
Yes	2.00[1.25-3.18]	2.34[0.38-14.28]	0.36

Were you told by the service provider about other methods other than the method you chose?

No	ref	ref	ref
Yes	2.65[1.48-4.74]	2.5 1[1.33-18.57]	0.37

During that visit, who made the final decision about what method you got?

You alone	ref	ref	ref
Provider	1	1	1
Husband/partner	1.79[0.65-4.98]	3.44[0.23-49.82]	036
You and provider	1.73[0.72-4.17]	12.96[1.10-15.2]*	0.04
You and partner	1.31[0.86-1.99]	0.43[0.10-1.93]	0.27
Others	1	1	1

What happens to women who don't consult the actors mentioned above if it's discovered that they have accessed and used any FP method?

Divorce	ref	ref	ref
Beaten	0.36 [0.19-0.72]	0.41 [0.10-1.49]	0.17
Embarrassment	0.60 [0.17-2.16]	5.07 [0.48-53.40]	0.17
Punished publicly	1	1	1

What stops women and men from making decision to use FP services in the refugee and host communities?

Cultural beliefs	ref	ref	ref
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Lack of information	2.21 [1.03-4.75]	0.57 [0.10-3.24]	0.54
Lack of husband support	0.80 [0.41-1.57]	0.21 [0.0-1.43]	0.11
Family interest for large families	1.05 [0.42-2.63]	0.17 [0.01-1.92]	0.15
None (nothing)	0.94 [0.16-5.49]	3.55 [0.05-27.68]	0.57