

**Supplementary Table 1: Characteristics of households and individuals enrolled into the study and population characteristics for Agincourt**

Characteristic	Period-1	Period-2	p value
<b>Study Sample Characteristics</b>			
<b>Household structure</b>			
Number of households	577	1079	Not done
Children $\leq$ 5years (mean $\pm$ SD)	1.83 $\pm$ 1.0	1.96 $\pm$ (1.1)	0.02
Individuals 6 - 18years (mean $\pm$ SD)	2.4 $\pm$ 1.8	2.2 $\pm$ 1.7	0.03
Individuals >18 years (mean $\pm$ SD)	4.5 $\pm$ 2.4	4.7 $\pm$ 2.6	0.13
Individuals in household, (mean $\pm$ SD)	8.73 $\pm$ 4.1	8.8 $\pm$ 4.2	0.74
Child in house that attends daycare, n/N (%)	164/572 (28.7%)	325/982 (33.1%)	0.07
Number rooms used for sleeping, (mean $\pm$ SD)	3.15 $\pm$ 1.5	3.2 $\pm$ 1.7	0.56
<b>Fuel used for cooking</b>			
Coal/Wood (%)	394 (68.3)	685 (63.5)	0.11
Paraffin/Gas (%)	11 (1.9)	17 (1.6)	0.64
Electricity (%)	168 (29.3)	365 (34.2)	0.03
<b>Participants age &gt; 12years</b>			
No of participants	994	1781	
Female	815 (82.1)	1538 (86.3)	<0.001
Mean age $\pm$ SD	34.01 $\pm$ 16.5	33.4 $\pm$ 16.3	0.35
HIV-infected (self-reporting)	40/505 (7.9)	135/1320 (10.2)	0.11
Caregiver females 19-45years	332/541(61.4)	836/1069 (78.2)	<0.001
<b>Participants age <math>\leq</math> 12 years</b>			
No of participants	1016	1877	

Female	515 (50.7)	964 (51.4)	0.73
Mean age $\pm$ SD	4.32 $\pm$ 3.4	3.80 $\pm$ 3.4	<.001
HIV-infected (self-reported)	5/165 (3.0)	20/631 (3.1)	0.93

### DHSS Population Characteristics<sup>1</sup>

Total population	87359	90021	
Percent <5 years	12.3	11.9	
Percent < 15 years	22.2	21.8	
Percent $\geq$ 65 years	4.7	4.6	
Life expectancy at birth (females) –years	62	66 <sup>2</sup>	
Life expectancy at birth (males)-years	54	56 <sup>2</sup>	
Infant mortality rate per 1000 live births	33	35	
Under-5 mortality per 1000 live births (females)	57	41	
HIV prevalence among adult females 20-44)	Not available	37.4% <sup>3</sup>	
HIV prevalence among adult males (20-44)	Not available	31.2 <sup>3</sup>	
Total number of households	15455	16091	
Mean household size	5.64	5.59	
Percent using fossil fuels	56.2%	47.2%	
Vaccine coverage in children DPT3	72%	Not available	
Vaccine coverage measles 1 (age at PCV3 vaccination)	85%	Not available	

<sup>1</sup> Actual Agincourt health and socio-demographic surveillance data as of 1<sup>st</sup> May 2009 for Period-1 and 1<sup>st</sup> May 2011 for Period-2.

<sup>2</sup> Life expectancy for Period-2 based on data for 2010, the most recent year with complete data

<sup>3</sup> Based on data from an HIV sentinel survey carried out in the Agincourt area in 2011 [Ref: 38]