

Supplemental Table 1: Demographic characteristics of HIV-positive Rakai Community Cohort Study (RCCS) participants from February 2015 and September 2016, by ART and viral suppression status

	Initiated ART			Suppressed§		
	n/N	%	p-value‡	n/N	%	p-value‡
Overall	1076/1554	68.7	-	1002/1076	93.1	-
Female	781/1075	72.7		728/781	93.2	
Male	295/479	61.7	<0.001	274/295	93.2	1.0
Age, Yrs.						
15-24	105/198	53.3		85/105	81.0	
25-29	155/270	57.4		143/155	92.3	
30-39	441/610	72.3		415/441	94.1	
40+	375/476	78.8	<0.001	359/375	96.0	<0.001
Marital status						
Married	596/879	67.8		555/596	93.3	
Previously Married	381/519	73.4		358/381	93.4	
Never Married	99/155	63.9	0.022	89/99	89.9	0.362
Educational status						
No education/Some primary	817/1167	70.1		760/817	93.1	
Post Primary	259/387	66.9	0.253	242/259	93.4	1.0
Occupation						
Non-high risk occupation	986/1407	70.1		917/986	93.1	
Bar/waitress/sex worker/Truck or motorcycle driver/Fisherfolk	90/147	61.2	0.030	85/90	94.4	0.827
Distance from household to nearest ART facility (km)						
<0.5	87/126	69.0		84/87	96.6	
0.5-2	224/310	72.3		207/224	92.4	
2-5	481/688	70.0		440/481	91.7	
5+	284/430	66.0	0.319	271/284	95.4	0.121
Wealth Index						
High wealth	673/987	68.3		629/673	93.5	
Low wealth	403/567	71.1	0.254	373/403	92.8	0.708
Vehicle ownership						
None	865/1255	69.0		806/865	93.2	
Car or Motorcycle	211/299	70.6	0.626	196/211	93.3	1.0
ART treatment facility type						
Public Facility	-	-	-	533/570	93.5	
Private or NGO-run Facility	-	-	-	133/142	93.7	
Hospital	-	-	-	297/318	93.4	
Missing	-	-	-	39/46	84.7	0.190

§ defined as viral load <400 copies/mL

‡ Chi-square p-values

Supplemental Table 2: Regional & sub-county differences in distance to nearest ART facility and distance traveled for ART

	N	Distance to nearest ART facility (km)	Distance traveled to ART facility (km)	P-value [□]	Number of ART facilities
		Median (IQR)	Median (IQR)		
Overall	1030	3.10 (1.65-5.05)	5.26 (3.00-10.03)	<0.001	29
Sub-County					
Byakabanda	48	3.05 (2.56-3.40)	4.74 (3.39-7.33)	<0.001	4
Kabira	60	5.12 (3.08-8.13)	6.12 (3.16-8.20)	0.161	9
Kakuuto	148	6.45 (0.89-7.01)	10.97 (6.14-16.42)	<0.001	12
Kalisizo	84	3.70 (1.97-5.13)	4.31 (2.02-5.28)	0.151	9
Kasaali	53	2.06 (0.46-2.98)	3.92 (0.92-11.36)	<0.001	11
Kasasa	126	4.84 (2.65-6.76)	7.35 (4.02-13.71)	<0.001	14
Kibanda	28	5.95 (4.73-6.72)	8.77 (5.95-13.52)	<0.001	5
Kitumba	107	1.41 (0.41-2.53)	4.64 (1.94-7.57)	<0.001	7
Kyotera Tc	109	1.47 (1.31-2.03)	2.76 (2.23-15.01)	<0.001	15
Lwanda	183	4.62 (3.55-5.05)	5.05 (4.10-8.39)	<0.001	10
Lwankoni	84	2.49 (2.20-2.84)	4.39 (3.14-8.22)	<0.001	4

[□] Wilcoxon-rank p-values comparing distance traveled and distance to nearest facility

Supplemental Table 3: Proportions and Prevalence risk ratios (PRR) of attending nearest ART facility

	n/N	%	Univariate			Adjusted		
			PRR	95% CI	P-value	adjPRR§	95% CI	P-value
Female	438/742	59.0	1.00			1.00		
Male	151/288	52.4	0.89	(0.74-1.07)	0.209	0.88	(0.73-1.06)	0.195
Age, Yrs.								
15-24	48/96	50.0	0.85	(0.62-1.14)	0.297	0.83	(0.60-1.12)	0.236
25-29	88/148	59.5	1.01	(0.79-1.28)	0.945	0.99	(0.77-1.26)	0.962
30-39	247/419	58.9	1.00			1.00		
40+	206/367	56.1	0.95	(0.79-1.15)	0.604	0.96	(0.80-1.15)	0.659
Marital status								
Married	305/573	53.2	1.00			1.00		
Previously Married	224/364	61.5	1.16	(0.97-1.37)	0.099	1.13	(0.95-1.35)	0.175
Never Married	60/93	64.5	1.21	(0.91-1.59)	0.173	1.20	(0.90-1.59)	0.199
Occupation								
Non-high risk occupation	539/935	57.6	1.00			1.00		
Bar/waitress/sex worker/Truck or motorcycle driver/Fisherfolk	46/86	53.5	0.93	(0.68-1.24)	0.626	0.92	(0.67-1.23)	0.594
Distance from household to nearest ART facility (km)	46/83	55.4	1.00			1.00		
<0.5	139/215	64.7	1.17	(0.84-1.64)	0.365	1.18	(0.85-1.66)	0.339
0.5-2	254/457	55.6	1.00	(0.74-1.39)	0.986	1.02	(0.75-1.41)	0.925
2-5	150/275	54.5	0.98	(0.71-1.38)	0.925	0.99	(0.72-1.39)	0.958
Wealth Index								
High wealth	390/637	61.2	1.00			1.00		
Low wealth	198/391	50.6	0.83	(0.70-0.98)	0.030	0.83	(0.7-0.99)	0.038
Vehicle ownership								
None	477/825	57.8	1.00			1.00		
Car or Motorcycle	112/205	54.6	0.94	(0.77-1.16)	0.590	0.96	(0.78-1.18)	0.720
Viral Load								
<400 copies/mL	551/963	57.2	1.00			1.00		
400+ copies/mL	37/66	56.1	0.98	(0.69-1.35)	0.904	0.99	(0.70-1.37)	0.955
Weight loss	30/52	57.7	0.99	(0.67-1.41)	0.968	0.98	(0.66-1.39)	0.905
Prolonged diarrhea	7/10	70.0	1.21	(0.52-2.35)	0.620	1.25	(0.53-2.43)	0.563
Prolonged fever	21/28	75.0	1.30	(0.82-1.96)	0.235	1.28	(0.80-1.94)	0.263
Hypertension	28/54	51.9	0.89	(0.59-1.27)	0.534	0.86	(0.57-1.24)	0.433
Any symptoms of opportunistic infection	115/200	57.5	1.01	(0.82-1.23)	0.948	0.99	(0.80-1.21)	0.930

§Adjusted for variables identified as potential confounders (age & sex)

Supplemental Table 4: Unadjusted and adjusted prevalence risk ratios (PRR) of traveling to access a tertiary treatment facility (Hospital/HC4), by demographic and health characteristics

	n/N	%	Univariate			Adjusted§		
			PRR	95% CI	P-Value	PRR [§]	95% CI	P-Value
Female	170/438	38.8	1.00			1.00		
Male	52/151	34.4	0.89	(0.64-1.20)	0.450	0.94	(0.68-1.28)	0.716
Age, Yrs.								
15-24	29/48	60.4	1.62	(1.05-2.43)	0.023	1.61	(1.04-2.41)	0.028
25-29	35/88	39.8	1.07	(0.71-1.56)	0.741	1.06	(0.71-1.55)	0.763
30-39	92/247	37.2	1.00			1.00		
40+	66/206	32.0	0.86	(0.62-1.18)	0.350	0.86	(0.63-1.18)	0.359
Marital status								
Married	106/305	34.8	1.00			1.00		
Previously Married	89/224	39.7	1.14	(0.86-1.51)	0.352	1.19	(0.89-1.59)	0.247
Never Married	27/60	45.0	1.29	(0.83-1.94)	0.231	1.16	(0.74-1.77)	0.506
Occupation								
Non-high risk occupation	204/539	37.8	1.00			1.00		
Bar/waitress/sex worker/Truck or motorcycle driver/Fisherfolk	15/46	32.6	0.86	(0.49-1.40)	0.578	0.85	(0.48-1.39)	0.556
Distance from household to nearest ART facility (km)	14/46	30.4	1.00			1.00		
<0.5	45/139	32.4	1.06	(0.60-2.01)	0.840	1.07	(0.60-2.02)	0.827
0.5-2	107/254	42.1	1.38	(0.82-2.53)	0.253	1.37	(0.81-2.51)	0.265
2-5	56/150	37.3	1.23	(0.70-2.29)	0.494	1.21	(0.69-2.25)	0.530
Wealth Index								
High wealth	153/390	39.2	1.00			1.00		
Low wealth	68/198	34.3	0.88	(0.65-1.16)	0.361	0.90	(0.67-1.20)	0.474
Vehicle ownership								
None	186/477	39.0	1.00			1.00		
Car or Motorcycle	36/112	32.1	0.82	(0.57-1.16)	0.289	0.83	(0.57-1.17)	0.305
Viral Load								
<400 copies/mL	203/551	36.8	1.00			1.00		
400+ copies/mL	18/37	48.6	1.32	(0.79-2.08)	0.258	1.25	(0.74-1.97)	0.377
Weight loss	13/30	43.3	1.24	(0.67-2.09)	0.457	1.23	(0.66-2.08)	0.476
Prolonged diarrhea	5/7	71.4	2.04	(0.73-4.46)	0.115	2.01	(0.71-4.41)	0.124
Prolonged fever	14/21	66.7	1.95	(1.08-3.24)	0.016	1.87	(1.04-3.12)	0.024
Hypertension	15/28	53.6	1.56	(0.88-2.55)	0.101	1.76	(0.98-2.92)	0.042
Any symptoms of opportunistic infection	51/115	44.3	1.23	(0.89-1.67)	0.196	1.28	(0.92-1.75)	0.127

§Adjusted for variables identified as potential confounders (age & sex)