Appendices

A Analysis of Clinic Eligibility Criteria

We constructed a sampling frame of pediatric HIV patients receiving ART or pre-ART services at 42 of the 48 HIV care clinics in Bikita and Zaka Districts; the 6 excluded facilities were not part of the BHASO network. Once we had an initial list of patient load by clinic, we excluded an additional 21 facilities that provided HIV care to fewer than 13 patients ages 9 to 15.

One concern about excluding these smaller facilities was that they were systematically different from the included facilities in terms of HIV prevalence, which might be associated with rates of disclosure. To examine this possibility, we compiled GPS coordinates of all included and excluded facilities and plotted clinics on a map of interpolated estimates of HIV prevalence among those aged 15 to 49 as measured in the 2010 Zimbabwe Demographic and Health Survey (ZDHS) [1, 2].

Figure A.1 shows that there is no relationship (p < 0.22) between HIV prevalence of 15 to 49 year olds and the number of children between ages 9-15 on ART or pre-ART at all clinics in our sampling frame. The black points are clinics that were selected (clinic size is greater than or equal to 13). The grey points are excluded clinics. Additional analysis confirms that there is no relationship between the residuals in a regression of HIV prevalence at each clinic on clinic size (results not shown).

We also examined whether our estimated disclosure rates per clinic are related to estimated HIV prevalence in the area. Figure A.2 shows that among clinics in our survey, there is no relationship (p < 0.49) between HIV prevalence and the percent of children who know their HIV status. Additional analysis confirms that there is no relationship between the residuals in a regression of HIV prevalence at each clinic on clinic-level HIV disclosure (results not shown).

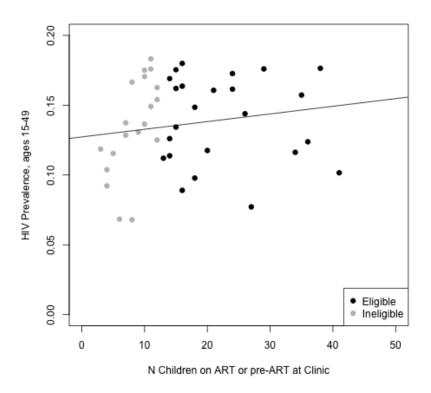


Figure A.1: **Prevalence of HIV vs. clinic size.** Each dot represents a clinic. Black points represent included clinics, and grey points represent excluded clinics. There is no relationship between the prevalence of HIV and clinic size.

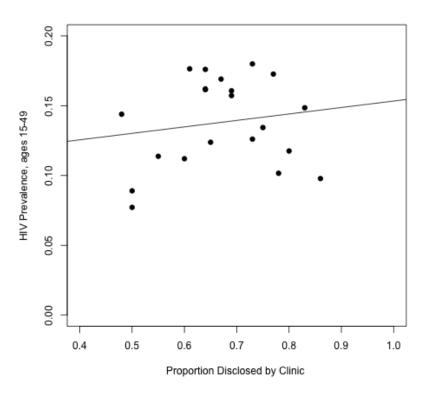


Figure A.2: **Prevalence of HIV vs. prevalence of pediatric HIV disclosure.** This figure shows the prevalence of HIV (ages 15-49) around each study clinic and the percentage of children who know their HIV status at each clinic. There is no relationship between HIV prevalence and disclosure.

Based on this exercise, we concluded that excluding clinics with fewer than 13 children on ART or pre-ART did not systematically alter our estimates of HIV disclosure.

B Supplemental Tables and Figures

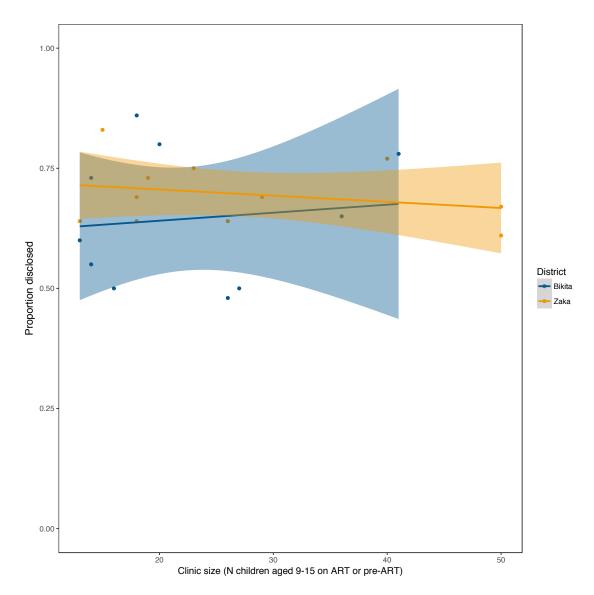


Figure B.1: **Disclosure by clinic size.** This figure shows how measured rates of disclosure vary by the size of the clinic. Clinic size is the number of children ages 9 to 15 on ART or pre-ART by clinic collected as part of the sampling frame. Rates of disclosure vary across clinics, but they do not seem to be associated with clinic population aged 9 to 15 on ART or pre-ART.

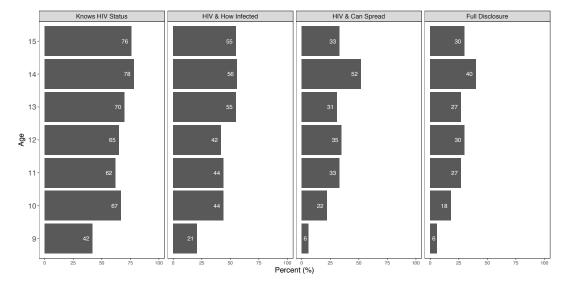


Figure B.2: Percentage of children who know facts about their HIV status by age. Sample includes all children whose caregivers were surveyed as part of the cross-sectional survey (Wave 1).

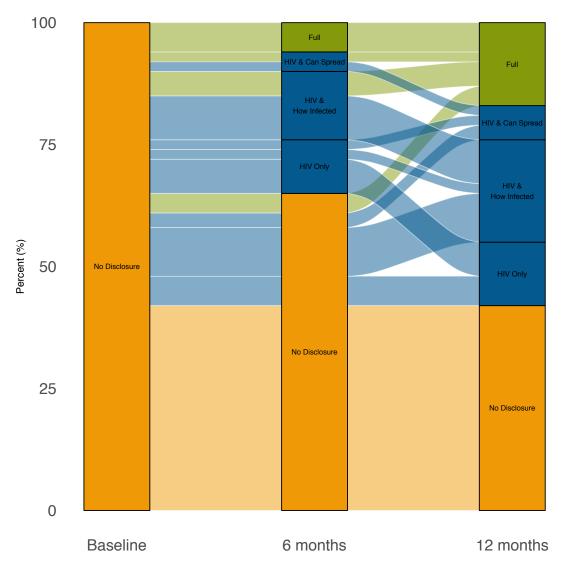


Figure B.3: What children learned about their HIV status over time. This figure shows a stacked bar chart at baseline (Wave 1), 6 months (Wave 2), and 12 months (Wave 3) of the proportion of children in the prospective cohort who knew certain elements of their HIV status. Fully disclosed children ("Full", indicated in green) knew that they have an illness called HIV, how they were infected, and that they can spread the virus to others. Partially disclosed children (indicated in blue) knew some but not all of these details. Children who do not know that they have an illness called HIV are labeled as "No Disclosure" (indicated in orange).

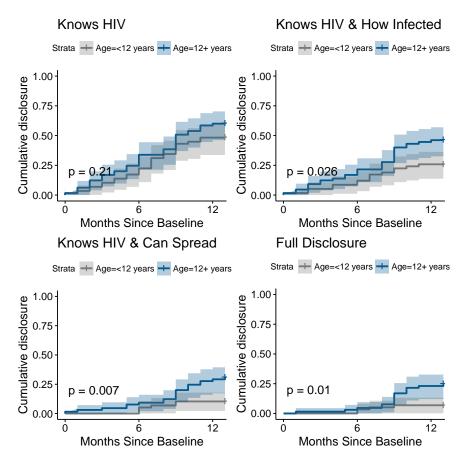


Figure B.4: Rates of learning facts about HIV status among the prospective cohort disaggregated by age. This figure shows the cumulative incidence of disclosure to children in the prospective cohort by age (under 12 years vs. 12 years and older). Each period represents 1 month from the baseline survey (Wave 1).

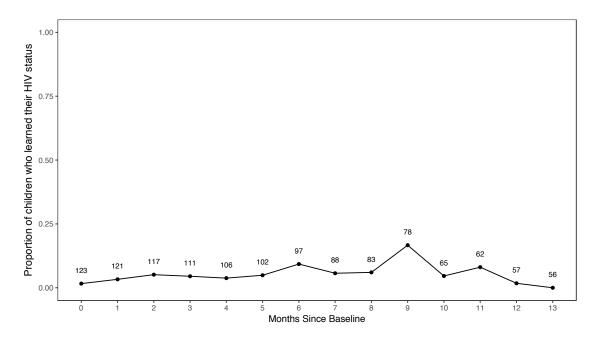


Figure B.5: Monthly disclosure rate by months since baseline. This figure shows the proportion of children in the prospective cohort who learned their HIV status each month since the baseline (Wave 1) among non-disclosed children, i.e. the children at risk for disclosure indicated by the number above each dot.

Caregiver relationship to child	Ν	%
Biological parent	169	45.40
Grandparent	108	29.00
Aunt or uncle	64	17.20
Other relative	13	3.50
Adopted, foster, or stepparent	7	1.90
Sibling	7	1.90
Other	3	0.80
Son or daughter (in law)	1	0.30

Table B.1: Caregiver relationship to child in sample

Note. Information for all caregivers surveyed at Wave 1 (N=372).

Table B.2: Disclosure status by wave

	Cross-S	ectional Sample	Prospective Cohort (N=123)			
		e 1 (Baseline) N=372			Wave 3 (12 Months) N=117	
Child knows	%	(95% CI)	%	(95% CI)	%	(95% CI)
a. He/she has a medical condition requiring ongoing treatment	91.9	(88.7, 94.3)	90.2	(83.3, 94.4)	96.6	(91.5, 98.7)
b. Medical condition is called HIV	66.9	(62.0, 71.5)	36.6	(28.3, 45.8)	58.1	(49.1, 66.7)
c. How he/she aquired HIV	46.8	(41.8, 51.9)	21.4	(14.8, 29.9)	38.5	(30.1, 47.5)
d. He/she can spread the disease to others	32.5	(28.0, 37.4)	9.8	(5.6, 16.7)	23.1	(16.4, 31.5)
Full disclosure (all three of b-d)	26.9	(22.6, 31.6)	6.2	(3.1, 12.3)	17.1	(11.3, 24.9)
No disclosure (none of b-d)	33.1	(28.5, 38.0)	63.4	(54.2, 71.7)	41.9	(33.3, 50.9)
Partial disclosure (at least one of b-d)	40.1	(35.2, 45.1)	30.4	(22.6, 39.4)	41.0	(32.5, 50.1)

Table B.3:	Worries	about	disclosure	among	non-disclosed	caregivers	at	12
months (N=	=49)							

Caregiver was somewhat or very worried that telling the child will:	(%)
- just create more problems.	57.4
- make [him/her] too sad.	57.4
- lead [him/her] to ask more tough questions.	55.3
- make [him/her] think less of [him/her]self.	51.1
- make [him/her] less hopeful about the future.	51.1
- lead [him/her] to experience stigma in the community.	47.9
- lead [him/her] to have difficulty in school.	46.8
- actually bring [him/her] harm.	45.7
- cause me to feel too many bad emotions.	42.6
- cause [him/her] to struggle more every day with normal tasks.	40.4
- bring more bad things than good things.	38.3
- make [his/her] condition get worse.	34.0
- lead [him/her] to reject me.	23.4
- make [him/her] stop taking medication.	23.4
- put a strain on our family.	21.3

Note. Caregivers responded to each item on a 4-point scale as follows: (0) "not at all worried", (1) "not very worried", (2) "somewhat worried", and (3) "very worried." Percentages in the table represent those who responded that they were somewhat or very worried.

C Assessment of Disclosure Rates from the Literature

To place our results in context, we identified several systematic reviews of pediatric HIV disclosure studies [3, 4, 5, 6, 7, 8, 9], conducted a supplemental search of the peer reviewed literature, and extracted 51 reported estimates of pediatric HIV disclosure prevalence from the collection of reviews and single studies. When possible, we also derived estimates of HIV disclosure for specific age groups using information reported in the articles (21 additional estimates).

We plot all reported and derived estimates in Figure C.1. A black dot indicates that a study used probability sampling, and an unfilled grey circle indicates that the estimate was based on a convenience sample. Table C.1 displays the reported and derived estimates from each included study.

All of the studies in this collection – 52 in total with our study included – defined disclosure as the child knowing they have a virus/illness called HIV. Only 2/52 studies calculated the sample prevalence of disclosure based on child-report [10, 11]. The rest relied on caregiver-report (43 studies), medical records (3 studies), or did not specify the source (4 studies).

1 of the 2 studies that interviewed children to determine disclosure status, Turissini, et al. (2013), documented both caregiver-reported (27 of 270; 10.2%) and child-reported (20 of 266; 7.5%) values. The difference in disclosure prevalence between informants is negligible – 2.7 percentage points. We used the caregiver-reported value in Figure 4 and Figure C.1.

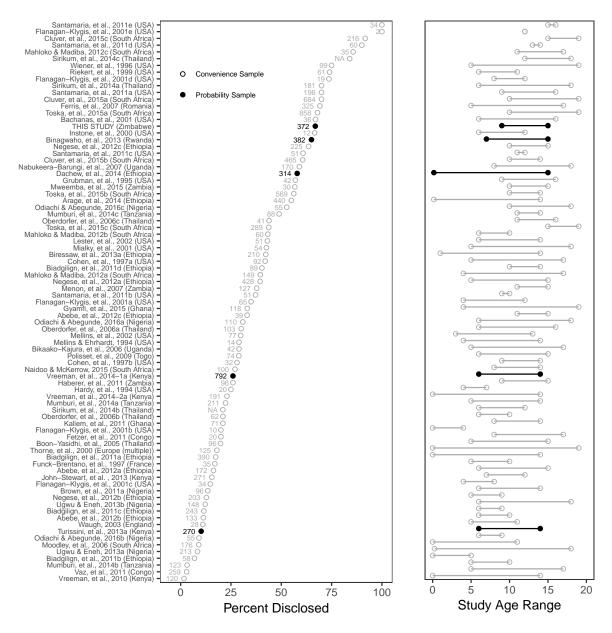


Figure C.1: Disclosure of HIV status of children across studies. This figure displays the rates of pediatric HIV disclosure (i.e. the child knows that the name of the illness they have is HIV) reported in 52 studies (including our study) plus derived estimates, the location and sample size of each study, whether the study used probability sampling methods (black filled dots), and the age range of the children. We compiled the data for this figure from recent systematic reviews [3, 4, 5, 6, 7, 8, 9] and our own supplemental search of the literature. Reported estimates either have the letter "a" or no letter appended to the study year; derived estimates have a letter other than "a" appended to the study year.

Table C.1: Studies included in literature figu
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Study	Country	Child's A	Age Range Max	Disclosed (%)	Sample Size	Sour
Flanagan-Klygis, et al. (2001e) [12]	USA	12	12 Max	100.00	Sample Size	reporte
Santamaria, et al. (2011e) [13]	USA	15	16	100.00	43	derive
Cluver, et al. (2015c) [14]	South Africa	15	19	91.70	30	reporte
Santamaria, et al. (2011d) [13]	USA South Africa	13	14 17	90.00	62	derive
Mahloko & Madiba (2012c) [15] Sirikum, et al. (2014c) [16]	South Africa Thailand	11 12	17	85.70 84.00	44 78	derive reporte
Wiener, et al. (1996) [17]	USA	5	19	75.00	77	reporte
Riekert, et al. (1999) [18]	USA	6	11	74.00	63	reporte
Flanagan-Klygis, et al. (2001d) [12]	USA	8	12	73.70	21	report
Cluver, et al. (2015a) [14]	South Africa USA	10 9	19 16	70.00 70.00	66 23	report
Santamaria, et al. (2011a) [13] Sirikum, et al. (2014a) [16]	Thailand	9 6	10	70.00	23 20	reporte
Ferris, et al. (2007) [19]	Romania	5	10	69.20	42	report
loska, et al. (2015a) [20]	South Africa	10	19	68.00	71	report
Bachanas, et al. (2001) [21]	USA	6	16	67.00	45	report
THIS STUDY	Zimbabwe USA	9 6	15 12	66.90 66.60	46 6	report
nstone, et al. (2000) [22] Binagwaho, et al. (2013) [23]	Rwanda	7	12	66.60 65.00	47	report report
Negese, et al. (2012c) [24]	Ethiopia	10	15	63.60	31	deriv
antamaria, et al. (2011c) [13]	USA	11	12	60.80	57	deriv
Cluver, et al. (2015b) [14]	South Africa	10	14	60.60	55	report
Vabukeera-Barungi, et al. (2007) [25]	Uganda	8	18	59.00	17	report
Dachew, et al. (2014) [26]	Ethiopia	<1	15	57.90	40	report
Grubman, et al. (1995) [27] Iweemba, et al. (2015) [28]	USA Zambia	9 10	16 15	57.00 56.70	52 38	report report
Coska, et al. (2015b) [20]	South Africa	10	15	56.20	60	report
Arage, et al. (2014) [29]	Ethiopia	<1	14	55.00	54	report
Ddiachi & Abegunde (2016c) [30]	Nigeria	10	18	52.70	59	deriv
Iumburi, et al. (2014c) [31]	Tanzania	11	14	48.90	73	deriv
Oberdorfer, et al. (2006c) [32]	Thailand	11	16	43.90	51	deriv
loska, et al. (2015c) [20] Iahloko & Madiba (2012b) [15]	South Africa South Africa	15 6	19 10	43.80 43.30	37 62	report deriv
ester, et al. (2002) [33]	USA	6	10	43.10	57	report
fialky, et al. (2001) [34]	USA	5	18	42.60	58	report
Biressaw, et al. (2013a) [35]	Ethiopia	1	14	42.30	27	report
Cohen, et al. (1997a) [36]	USA	5	17	42.00	75	report
Siadgilign, et al. (2011d) [37]	Ethiopia	10	14	40.40	74	deriv
fahloko & Madiba (2012a) [15] legese, et al. (2012a) [24]	South Africa Ethiopia	4 5	17 15	39.60 39.50	15 53	report report
fenon, et al. (2007) [38]	Zambia	11	15	37.80	10	report
antamaria, et al. (2011b) [13]	USA	9	10	37.20	57	deriv
lanagan-Klygis, et al. (2001a) [12]	USA	4	12	35.00	65	report
Syamfi, et al. (2015) [39]	Ghana	4	19	33.10	5	report
Abebe, et al. (2012c) [40]	Ethiopia	11	15	33.00	48 4	deriv
Ddiachi & Abegunde (2016a) [30] Dberdorfer, et al. (2006a) [32]	Nigeria Thailand	6 6	18 16	30.90 30.10	4	report report
Aellins, et al. (2002) [41]	USA	3	13	29.80	69	report
Bikaako-Kajura, et al. (2006) [42]	Uganda	5	17	29.00	52	report
Aellins & Ehrhardt (1994) [43]	USA	4	14	29.00	12	report
Polisset, et al. (2009) [44]	Togo	6	15	28.90	68	report
Cohen, et al. (1997b) [36] Jaidaa & McKaman (2015) [45]	USA South Africa	9 8	14 14	28.00 27.00	41 2	deriv
Vaidoo & McKerrow (2015) [45] Haberer, et al. (2011) [46]	South Africa Zambia	9	14 15	27.00	76	report report
/reeman, et al. (2014-1a) [47]	Kenya	6	10	26.00	70	report
Iardy, et al. (1994) [48]	USA	4	7	25.00	25	report
/reeman, et al. (2014-2a) [11]	Kenya	$<\!\!1$	14	23.00	22	report
Jumburi, et al. (2014a) [31]	Tanzania	5	14	22.30	28	report
Kallem, et al. (2011) [49]	Ghana	8	14	21.00	67 64	report
Dberdorfer, et al. (2006b) [32] irikum, et al. (2014b) [16]	Thailand Thailand	6 6	10 12	21.00 21.00	64 78	report
etzer, et al. (2011) [50]	Congo	8	12	20.00	25	report
lanagan-Klygis, et al. (2001b) [12]	USA	<1	4	20.00	1	report
Boon-Yasidhi, et al. (2005) [51]	Thailand	5	15	19.80	76	report
'horne, et al. (2000) [52]	Europe (multiple)	<1	19	18.00	9	report
Siadgilign, et al. (2011a) [37]	Ethiopia	<1	14	17.40	49	report
unck-Brentano, et al. (1997) [53] bebe, et al. (2012a) [40]	France Ethiopia	5 6	10 15	17.00 16.30	44 18	report report
ohn-Stewart, et al. (2013) [54]	Kenya	7	10	15.50	35	report
lanagan-Klygis, et al. (2001c) [12]	USĂ	4	8	14.70	43	report
brown, et al. (2011a) [55]	Nigeria	6	14	13.50	76	report
legese, et al. (2012b) [24]	Ethiopia	5	9	12.80	26	deriv
Jgwu & Eneh (2013b) [56]	Nigeria Ethiopia	6	18	12.20	14	deriv
Biadgilign, et al. (2011c) [37] Abebe, et al. (2012b) [40]	Ethiopia Ethiopia	6 6	9 10	11.50 11.30	32 11	deriv deriv
Vaugh (2003) [57]	England	5	10	11.30	36	report
Furissini, et al. (2013a) [10]	Kenya	6	14	10.20	34 34	report
Ddiachi & Abegunde (2016b) [30]	Nigeria	6	9	9.10	59	deriv
Moodley, et al. (2006) [58]	South Africa	$<\!\!1$	11	9.00	19	report
Jgwu & Ench (2013a) [56]	Nigeria	<1	18	8.40	29	report
Biadgilign, et al. (2011b) [37]	Ethiopia	<1	5	6.90	61	deriv
Aumburi, et al. (2014b) [31]	Tanzania	5	10	3.20	8	deriv
/az, et al. (2011) [59]	Congo	5	17	3.00 1.70	33	report

Note. This table shows estimates of pediatric HIV disclosure (i.e. the child knows that the name of the illness they have is HIV) from published systematic reviews (reported) and estimates derived from these studies not published in the systematic reviews (derived). Derived estimates were calculated directly from each published study if the study reported disclosure rates among subsets of their study population.

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