

**Supplemental Digital Content 2.** Characteristics of South African Children Living with HIV at ART Initiation, PESS study

	Total (n=241) <sup>a</sup>	CLHIV<3 years at ART initiation (ABC/3TC/LPV/r) (n=151) <sup>a</sup>	CLHIV≥3 years at ART initiation (ABC/3TC/EFV) (n=90) <sup>a</sup>
Age, years	1.7 [1 - 6]	0.8 [0 - 1.6]	7.9 [5 - 10]
Female	111 (46.1)	69 (45.7)	42 (46.7)
Caregiver			
Biological mother	178 (73.9)	123 (81.5)	55 (61.1)
Grandmother	32 (13.3)	15 (9.9)	17 (18.9)
Other family member	21 (8.7)	8 (5.3)	13 (14.4)
Other	9 (3.7)	5 (3.3)	4 (4.4)
Biological mother alive	212 (88.0)	144 (95.4)	68 (75.6)
Child's home contains inside tap water	141 (58.5)	84 (55.6)	57 (63.3)
Child's home contains inside toilet	136 (56.4)	77 (51.0)	59 (65.6)
Child's home contains electricity	218 (90.5)	136 (90.1)	82 (91.1)
Household Wealth Index	0.8 [-1.0 - 0.8]	-0.1 [-1.0 - 0.8]	0.8 [-1.0 - 0.8]
Study Site			
Dora Nginza Hospital	96 (39.8)	57 (37.7)	39 (43.3)
Kwazakhele Community Health	21 (8.7)	15 (9.9)	6 (6.7)
Motherwell Community Health	30 (12.4)	20 (13.2)	10 (11.1)
Cecilia Makiwane Hospital	50 (20.7)	28 (18.5)	22 (24.4)
Frere Hospital	44 (18.3)	31 (20.5)	13 (14.4)
Preterm birth (<37weeks)	30 (12.4)	21 (13.9)	9 (10.0)
Ever breastfed	182 (75.5)	120 (79.5)	62 (68.9)
Log VL	5.7 [5.1 - 6.3]	6.1 [5.5 - 6.6]	5.2 [4.8 - 5.6]
VL≤1 million, copies/mL	144 (59.8)	65 (43.0)	79 (87.8)
VL>1 million, copies/mL	97 (40.2)	86 (57.0)	11 (12.2)
CD4%	17.7 [11 - 26]	19.2 [13 - 27]	15.1 [7 - 20]
<15%	84 (34.9)	42 (27.8)	42 (46.7)
15 to 24%	70 (29.0)	44 (29.1)	26 (28.9)
≥25%	58 (24.1)	42 (27.8)	16 (17.8)
CD4 count, cells/mm <sup>3</sup>	638 [350 - 1,236]	1003 [523 - 1,623]	359 [226 - 614]
Central: Peripheral Skinfold Ratio	0.9 [0.8 - 1.1]	0.9 [0.8 - 1.0]	0.9 [0.8 - 1.1]

3TC=lamivudine, ABC=abacavir, ART=Antiretroviral therapy, EFV=efavirenz,

LPV/r=lopinavir/ritonavir, VL=HIV RNA viral load

<sup>a</sup> Continuous variables are expressed in median [interquartile range]; Categorical variables are expressed in number (percent)

<sup>b</sup>A higher wealth index indicates more household assets