

Supplementary Table S1. Overview of variables included in the routine health information management system, Limpopo Province, South Africa, April–June 2023.

No.	Variable Name	Description	No.	Variable Name	Description
1	District	Name of the district	49	SecondLastARTVLCCount	Second last recorded ART viral load count
2	Sub_district	Name of the sub-district	50	SecondLastARTVLDDate	Date of the second last ART viral load result
3	Facility	Name of the facility	51	Last_ART_VL_Count	Most recent viral load count at ART visit
4	Folder Number	Client folder number	52	Last_Pre_ART_Custom_Variable3	Placeholder for additional pre-ART data or information
5	Firstname	Client first name	53	Last_ART_Weight	Client's weight recorded during their last ART visit
6	Surname	Client surname	54	Last_ART_Height	Client's height recorded during their last ART visit
7	Date of birth	Client's date of birth	55	Last_ART_Cell_Code	Code for the last ART prescription issued
8	Current_Age	Current age of the client	56	Last_ART_Cell_Date	Date of the last ART prescription
9	Age_Months	Client's age in months	57	Last_ART_Prescription_Code	Code for the last ART prescription issued
10	Gender	Client's gender	58	Last_ART_Prescription_Date	Date of the last ART prescription
11	Last_HTS_HIV_Test_Result	Result of the client's last HIV test	59	Regimen_At_Baseline	ART regimen the client was on at baseline
12	ART_Start_Date	Date the client started ART	60	Baseline_CD4	Baseline CD4 count at the start of ART
13	Outcome	Current outcome status of the client	61	TB_Status_At_Last_Visit	TB status recorded at the last visit
14	Outcome_Date	Date of the recorded outcome	62	Last_TB_Start_Date	Date TB treatment was initiated
15	Prior_ART	Information on prior ART use	63	Age_At_Pre_ART	Age of the client at the time of the last pre-ART visit
16	Method_Into_ART	Method used to initiate the client into ART	64	First_Adherence_club_date	Date the client joined an adherence club
17	Last_ART_Visit_Code	Last regimen code prescribed	65	Last_Adherence_club_date	Date of the client's last adherence club attendance
18	Last_ART_Visit_Date	Date the client last visited the facility	66	Last_Adherence_club	Participation status in the adherence club
19	Last_ART_CD4_Count	CD4 count at the last ART visit	67	Work_UpStartedDate	Date when the client's ART work-up started
20	Last_ART_CD4_Date	Date of the last recorded CD4 count	68	Health_Provider_At_ART_Start	Health provider initiating ART for the client
21	Last_Pre_ART_Stage	Stage of HIV at the last pre-ART visit	69	Pregnancy_Status_At_Last_Visit	Pregnancy status at the client's last visit
22	Last_Pre_ART_Visit_Date	Date of the last pre-ART visit	70	Last_HTS_HIV_Test_Date	Date of the client's most recent HIV test
23	Last_Pre_ART_CD4_Count	CD4 count recorded at the last pre-ART visit	71	IPT_at_ART_Start	Indicates if IPT was initiated at ART start
24	Last_Pre_ART_CD4_Date	Date of the last pre-ART CD4 count	72	CPT_at_ART_Start	Indicates if CPT was initiated at ART start
25	Last_Pre_ART_Next_Appointment_Date	Date of the next scheduled pre-ART appointment	73	Most_Recent_ART_Restart_Date	Date the client most recently restarted ART
26	Last_ART_Next_Appointment_Date	Date of the next scheduled ART appointment	74	Duration_on_ART_months	Total duration of ART treatment in months
27	ID_Number	Client's ID number	75	CCMDD_at_last_visit	Enrollment in CCMDD at the last visit
28	First_Visit_Date	Date of the client's first visit	76	PREP_Start_Date	Date the client started PrEP
29	Treatment_Supporter	Name or ID of the treatment supporter	77	PREP_Stop_Date	Date the client stopped PrEP
30	Transferred_Moved_In_Date	Date the client moved into or transferred to the facility	78	Method_Into_PrEP	Method used to initiate the client into PrEP
31	Pregnant_on_ART_Start	Indicates if the client was pregnant at ART start	79	Stop_Date1	Additional stop date for services
32	Stage_at_ART_Start	Stage of HIV recorded at ART initiation	80	Restarting_PrEP	Indicates if the client restarted PrEP
33	TB_Rx_Started	Indicates if the client started TB treatment	81	PrEP_Transferred_MovedInDate	Date of PrEP transfer into the facility
34	Treatment_Notes	Notes regarding the client's treatment	82	PrEP_Status	Current status of PrEP use
35	Pap_Smear	Indicates if the client underwent a pap smear	83	Street	Street address of the client
36	Pap_Smear_Date	Date of the client's last pap smear	84	Suburb	Suburb of the client
37	Cotrimoxazole_Started	Indicates if cotrimoxazole was initiated	85	City	City of residence
38	Cotrimoxazole_Start_Date	Date cotrimoxazole was started	86	Province	Province of residence
39	IPT_Start_Date	Date IPT was started	87	ContactNumber	Client's primary contact number
40	IPT_Stop_Date	Date IPT was stopped	88	PregnantOnARTStart	Indicates if the client was pregnant at ART initiation
41	IPT_Outcome	Outcome of IPT treatment	89	IdxPregnantAtLastVisit	Indicates if the client was pregnant during their most recent visit
42	Method_Into_ART_Location	Location where the client started ART	90	Last_ART_VL_Date	Date of the most recent viral load result
43	Age_At_ART_Start	Age of the client at the time of starting ART	91	Second_Line_Start_Date	Date the client started on a second-line ART regimen
44	HIV_Diagnosis_Date	Date of HIV diagnosis	92	Last_Pre_ART_Weight	Client's weight recorded during their last pre-ART visit
45	Pre_Treatment_Notes	Additional notes on pre-treatment	93	Last_Pre_ART_Height	Client's height recorded during their last pre-ART visit
46	Alternate_number	Alternate contact number of the client	94	Last_Pre_ART_Custom_Variable	Placeholder for additional pre-ART data or information
47	Location	Location details for the client	95	Last_Pre_ART_Custom_Variable2	Placeholder for additional pre-ART data or information
48	Last_Prescribed_ART_Months	Number of months ART was last prescribed for			

Supplementary Table S2. HIV treatment cascade disaggregated by sex among individuals tested for HIV, based on a retrospective secondary analysis of routine health information system data, Limpopo Province, South Africa, April–June 2023 (n = 37,934; HIV positive n = 885).

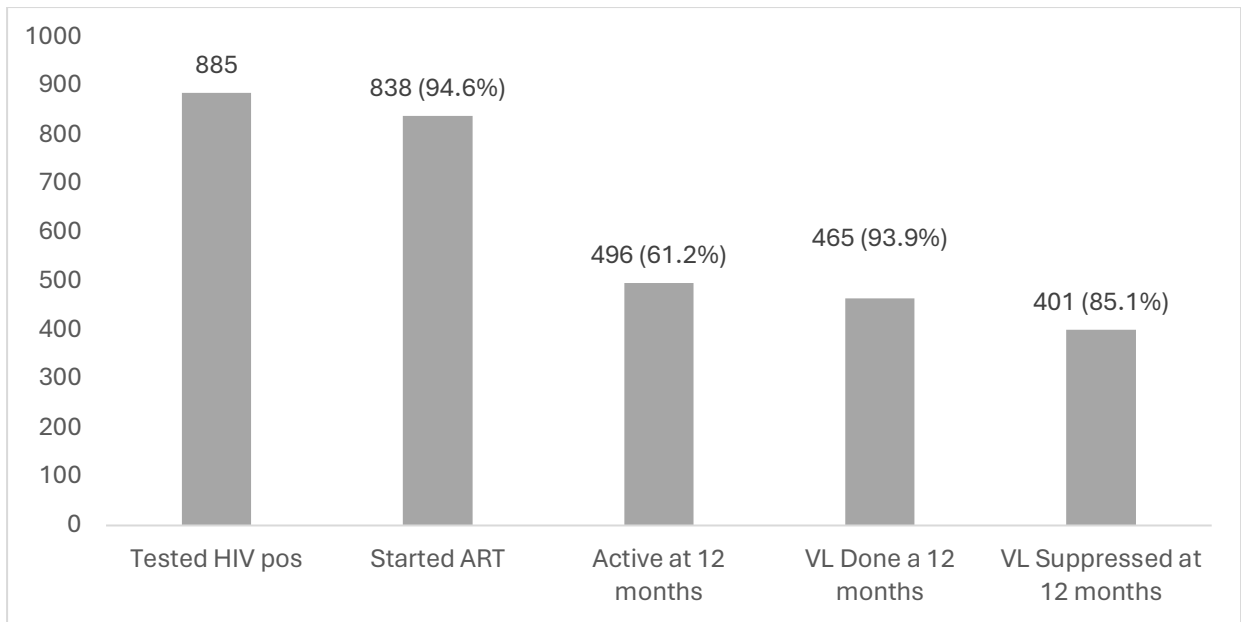
95-95-95	Indicator	Female		Male		All	
		n/N	%	n/N	%	n/N	%
1 st 95	Tested Positive	619/27	2.2% (95% CI: 1.9–	266/10	2.8% (95% CI: 2.2–	885/37	2.3% (95% CI: 2.0–
		752	2.5)	182	3.4)	934	2.6)
2 nd 95	Started ART	591/619	96.2% (95% CI: 94.2–	247/266	94.5% (95% CI: 90.6–	838/885	94.6% (95% CI: 91.1–
			98.2)		98.4)		98.1)
	On ART at 12 months	353/591	60.0% (95% CI: 54.1–	143/247	59.3% (95% CI: 50.9–	496/838	61.2% (95% CI: 55.8–
			65.9)		67.7)		66.6)
3 rd 95	Viral Load Done at 12 months	329/353	93.0% (95% CI: 90.3–	136/143	95.8% (95% CI: 92.2–	465/496	93.9% (95% CI: 91.6–
			95.7)		99.6)		96.2)
	Viral Load Suppressed at 12 months	289/329	88.2% (95% CI: 84.2–	112/136	79.8% (95% CI: 72.4–	401/465	85.1% (95% CI: 80.3–
			92.2)		87.2)		89.8)

Notes: ART: Antiretroviral treatment; HIV: Human immunodeficiency virus, VL: Viral load

Supplementary Table S3. HIV treatment cascade disaggregated by age group among individuals tested for HIV, based on a retrospective secondary analysis of routine health information system data, Limpopo Province, South Africa, April–June 2023 (n = 37,934; HIV positive n = 885)

	Indicator	<15 years		15–24 years		>24 years		All Ages	
95-95-95		n/N	%	n/N	%	n/N	%	n/N	%
1st 95	Tested Positive	37/5765	0.6% (95% CI: 0.4–1.4)	122/11238	1.1% (95% CI: 0.8–1.4)	726/20931	3.4% (95% CI: 2.9–3.9)	885/37934	2.3% (95% CI: 2.0–2.6)
2nd 95	Started ART	34/37	96.6% (95% CI: 93.7–99.5)	117/122	95.6% (95% CI: 93.9–99.1)	687/726	94.7% (95% CI: 91.1–98.3)	838/885	94.6% (95% CI: 91.1–98.1)
	Active at 12 months	22/34	67% (95% CI: 56–78)	61/117	55.9% (95% CI: 46.4–65.4)	413/687	62% (95% CI: 55.6–67.5)	496/838	61.2% (95% CI: 55.8–66.6)
3rd 95	Viral load done at 12 months	21/22	93.8% (95% CI: 87.7–99.9)	57/61	93.5% (95% CI: 87.6–99.4)	387/413	93.6% (95% CI: 91.0–96.2)	465/496	93.9% (95% CI: 91.6–96.2)
	Viral load suppressed at 12 months	17/21	85.6% (95% CI: 77.9–93.3)	51/57	86.8% (95% CI: 79.3–94.3)	333/387	84.9% (95% CI: 79.6–90.2)	401/465	85.1% (95% CI: 80.3–89.8)

Notes: ART: Antiretroviral treatment; HIV: Human immunodeficiency virus, VL: Viral load



Notes: ART: Antiretroviral treatment; HIV: Human immunodeficiency virus, VL: Viral load

Supplementary Figure S1: HIV treatment cascade among individuals who tested HIV positive, based on a retrospective secondary analysis of routine health information system data, Limpopo Province, South Africa, April–June 2023 (n = 885)

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