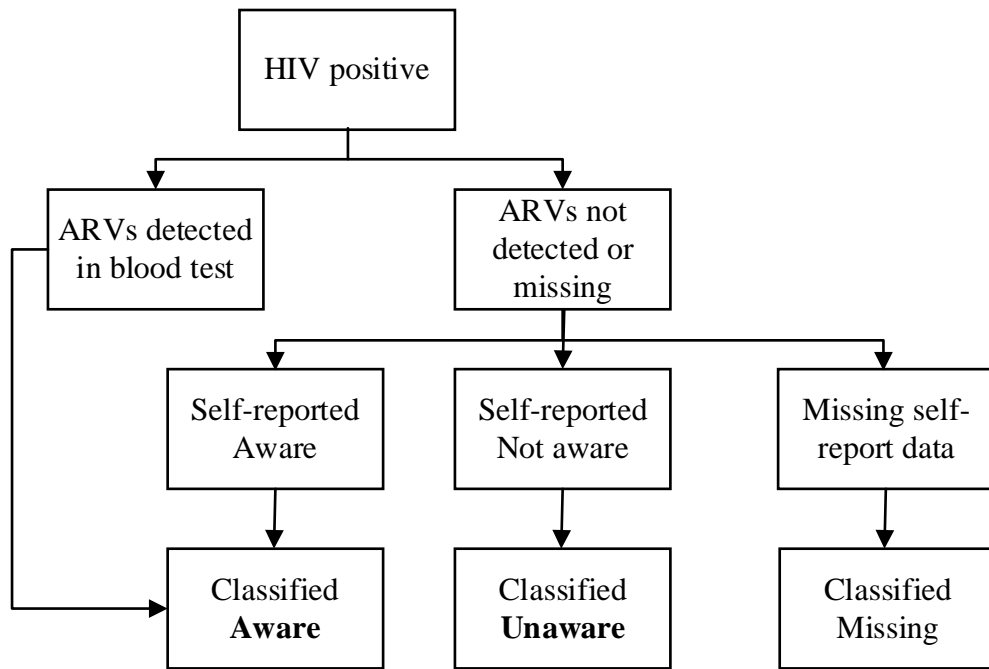**Trends in HIV prevalence, incidence, and progress towards the UNAIDS 95-95-95 targets in Malawi among adults 15-64 years – Population-based HIV Impact Assessments, 2015−16 and 2020−21**
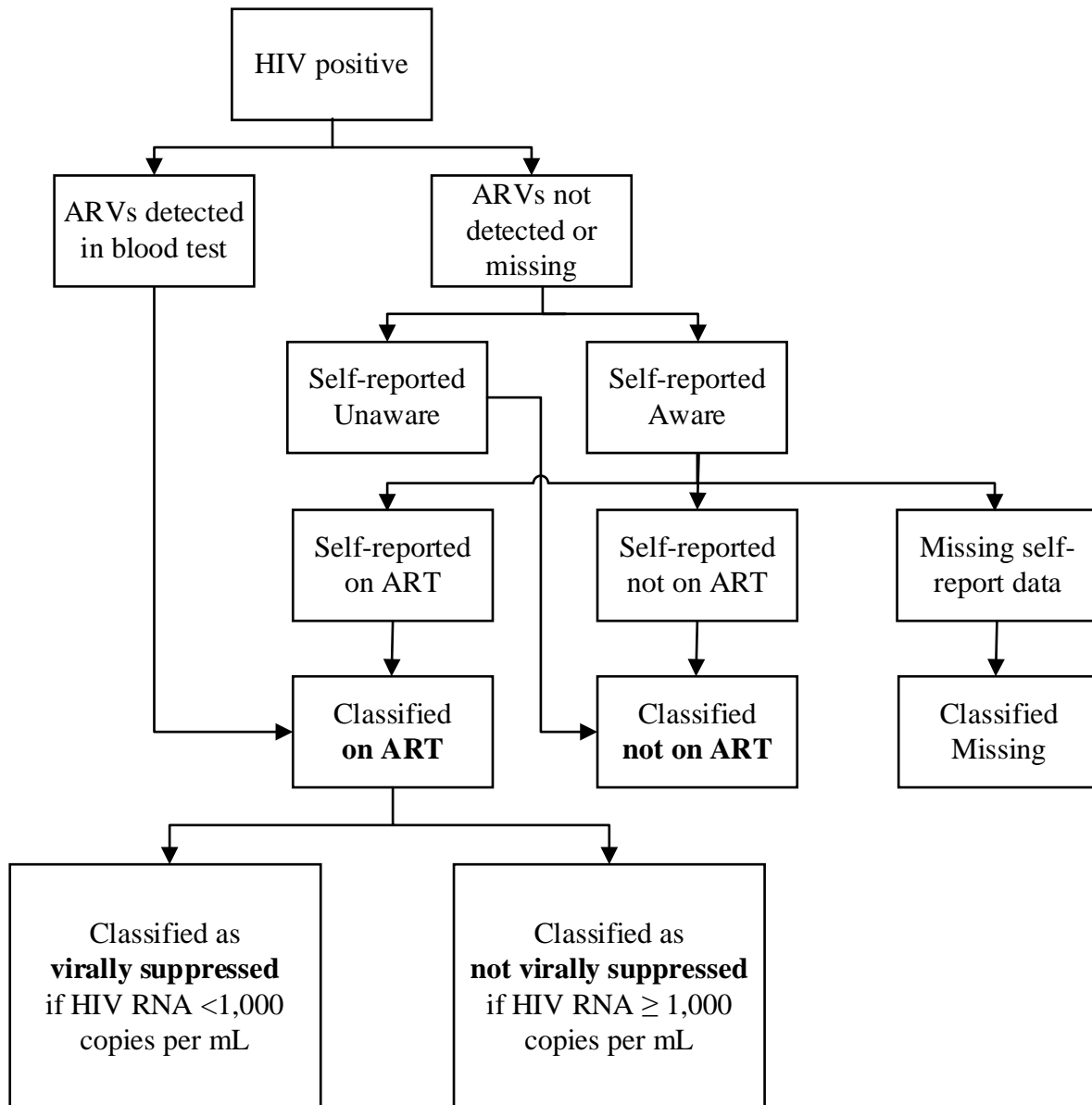
Supplementary Materials

Supplemental Figure 1: Flow diagram on the classification of awareness of HIV status among participants testing HIV positive, Malawi Population-based HIV Impact Assessments (MPHIA) 2015−16 and 2020−21

Supplemental Figure 2: Flow diagram on the classification of being on ART and virally suppression among participants testing HIV positive, Malawi Population-based HIV Impact Assessments (MPHIA) 2015−16 and 2020−21

Supplementary Table 1: HIV prevalence by demographic characteristics among men and women aged 15-64 years, Malawi Population-based HIV Impact Assessments (MPHIA) 2015−16 and 2020−21 surveys

Characteristic	Men (n, %)			Women (n, %)			Total (n)		
	2016	2021	% change	2016	2021	% change	2016	2021	% change
Age Group									
15-24	2714 (1.5%)	3412 (1.4%)	-10.1%	3601 (3.4%)	4207 (2.8%)	-18.6%	6315 (2.5%)	7619 (2.1%)	-15.5%
25-34	1829 (8%)	2088 (4.7%)	-41.4%	2952 (15.4%)	3287 (10.5%)	-31.5%	4781 (11.8%)	5375 (7.8%)	-34.3%
35-44	1408 (16.3%)	1681 (12.2%)	-25.3%	1893 (23.2%)	2496 (20.5%)	-11.4%	3301 (19.9%)	4177 (16.6%)	-16.6%
45-54	813 (20.1%)	1126 (19.7%)	-2.2%	1027 (18.6%)	1412 (21.5%)	15.2%	1840 (19.4%)	2538 (20.6%)	6.5%
55-64	561 (12.8%)	646 (15.7%)	21.8%	566 (15.1%)	853 (12.1%)	-20.0%	1127 (14.1%)	1499 (13.8%)	-1.9%
Residence									
Urban	2743 (10.8%)	1627 (10.3%)	-5.1%	3773 (17.7%)	2244 (13.8%)	-22.3%	6516 (14.2%)	3871 (12.1%)	-14.8%
Rural	4582 (7.9%)	7326 (6.4%)	-19.1%	6266 (11.3%)	10011 (9.9%)	-12.1%	10848 (9.7%)	17337 (8.2%)	-14.8%
Zone									
North	1028 (6%)	1120 (5.9%)	-2.4%	1312 (8.7%)	1275 (7.5%)	-13.5%	2340 (7.4%)	2395 (6.7%)	-9.3%
Central-East	1177 (3.8%)	1674 (3.1%)	-16.8%	1354 (6.2%)	1957 (4.9%)	-20.0%	2531 (4.9%)	3631 (4%)	-19.0%
Central-West	869 (5.7%)	1284 (3.7%)	-34.5%	1153 (6.4%)	1610 (5.2%)	-19.9%	2022 (6.1%)	2894 (4.5%)	-26.4%
Lilongwe City	1291 (8.5%)	479 (9.4%)	10.6%	1741 (14.8%)	723 (10.9%)	-26.5%	3032 (11.5%)	1202 (10.2%)	-11.3%
South-East	758 (12.5%)	1879 (9.2%)	-26.6%	1216 (17.4%)	3107 (14.3%)	-17.9%	1974 (15.3%)	4986 (12.1%)	-20.7%
South-West	1060 (13.1%)	1963 (11.8%)	-9.5%	1687 (18.4%)	2884 (16.8%)	-9.0%	2747 (16%)	4847 (14.5%)	-9.5%
Blantyre City	1142 (14%)	554 (11.3%)	-19.3%	1576 (21.8%)	699 (17.2%)	-20.9%	2718 (17.7%)	1253 (14.4%)	-19.0%
Marital status									
Never married	2644 (1.6%)	3074 (1.6%)	1.8%	2005 (3.5%)	2114 (2.9%)	-19.0%	4649 (2.4%)	5188 (2.1%)	-10.3%
Married or living together	4308 (11.6%)	5388 (9.8%)	-15.5%	6348 (11.3%)	7649 (9.8%)	-13.2%	10656 (11.4%)	13037 (9.8%)	-14.3%
Divorced or separated	307 (18.6%)	430 (12.3%)	-33.6%	1160 (22.8%)	1802 (17.9%)	-21.2%	1467 (21.7%)	2232 (16.6%)	-23.5%
Widowed	55 (51.4%)	56 (31.8%)	-38.1%	515 (43.1%)	678 (33.8%)	-21.5%	570 (43.9%)	734 (33.6%)	-23.3%
Education									
No education	362 (10.7%)	524 (10.5%)	-2.0%	1041 (16.5%)	1441 (12.9%)	-21.6%	1403 (14.8%)	1965 (12.2%)	-18.1%
Primary	4027 (9.1%)	5318 (7.4%)	-19.2%	6031 (11.9%)	7947 (10.7%)	-10.3%	10058 (10.6%)	13265 (9.2%)	-13.4%
Secondary	2510 (6.8%)	2704 (6.2%)	-8.4%	2569 (11.8%)	2579 (9.6%)	-18.2%	5079 (8.9%)	5283 (7.7%)	-13.1%
More than secondary	424 (9%)	400 (5.1%)	-43.1%	391 (12.9%)	276 (6.6%)	-48.9%	815 (10.4%)	676 (5.6%)	-46.0%
Wealth quintile									
Lowest	777 (9.9%)	1428 (5.1%)	-48.8%	1214 (12.5%)	2219 (8.6%)	-31.3%	1991 (11.3%)	3647 (7%)	-38.1%
Second	1061 (7.6%)	1763 (5%)	-33.6%	1421 (11.4%)	2327 (8.9%)	-22.2%	2482 (9.6%)	4090 (7%)	-26.4%
Middle	1168 (7.7%)	1774 (7.5%)	-2.8%	1637 (11.4%)	2542 (10.8%)	-4.8%	2805 (9.6%)	4316 (9.3%)	-3.7%
Fourth	1590 (8.5%)	2035 (8.6%)	0.7%	2045 (11.6%)	2610 (12.6%)	8.9%	3635 (10.1%)	4645 (10.6%)	5.6%
Highest	2729 (9.1%)	1951 (8.6%)	-4.9%	3722 (15.1%)	2555 (11.8%)	-22.0%	6451 (12.1%)	4506 (10.3%)	-15.4%
Pregnancy status									
Currently pregnant				562 (8.7%)	700 (8.5%)	0.0%			
Not currently pregnant				7570 (12.9%)	11477 (10.7%)	0.0%			
Total 15-64	7325 (8.5%)	8953 (7.1%)	-16.6%	10039 (12.5%)	12255 (10.6%)	-15.0%	17364 (10.6%)	21208 (8.9%)	-15.4%

Supplementary Table 2: Awareness of HIV status among PLHIV by demographic characteristics among men and women aged 15-64 years, Malawi Population-based HIV Impact Assessments (MPHIA) 2015−16 and 2020−21

Characteristic	Men (n, %)			Women (n, %)			Total (n)		
	2016	2021	% change	2016	2021	% change	2016	2021	% change
Age Group									
15-24	44 (44.6%)	51 (77.2%)	32.6%	170 (57.6%)	150 (75.8%)	18.2%	214 (53.7%)	201 (76.2%)	22.5%
25-34	159 (60.8%)	105 (69.5%)	8.8%	509 (76.9%)	401 (85.6%)	8.7%	668 (71.6%)	506 (81%)	9.4%
35-44	248 (74.3%)	219 (87.1%)	12.9%	509 (87.5%)	585 (94.4%)	6.8%	757 (82.3%)	804 (91.8%)	9.6%
45-54	176 (83.4%)	239 (92.8%)	9.4%	224 (84.4%)	351 (96%)	11.6%	400 (83.9%)	590 (94.5%)	10.6%
55-64	85 (81.5%)	109 (88%)	6.4%	93 (85.1%)	127 (92.2%)	7.1%	178 (83.6%)	236 (89.9%)	6.4%
Residence									
Urban	324 (65.7%)	174 (83.1%)	17.5%	731 (78.5%)	367 (89.2%)	10.7%	1055 (73.5%)	541 (86.7%)	13.2%
Rural	388 (73.8%)	549 (85.9%)	12.1%	774 (80.8%)	1247 (90.7%)	10.0%	1162 (78.1%)	1796 (88.9%)	10.9%
Zone									
North	67 (74.7%)	66 (85.9%)	11.2%	114 (77.6%)	107 (91%)	13.4%	181 (76.4%)	173 (88.7%)	12.3%
Central-East	45 (64.2%)	58 (78.7%)	14.6%	84 (75.1%)	105 (87.1%)	12.0%	129 (70.8%)	163 (83.7%)	12.9%
Central-West	56 (70.6%)	51 (76.7%)	6.1%	82 (80%)	100 (92.6%)	12.6%	138 (75.7%)	151 (86.2%)	10.5%
Lilongwe City	118 (65.6%)	45 (82.1%)	16.5%	278 (78.5%)	98 (84.3%)	5.8%	396 (73.6%)	143 (83.4%)	9.8%
South-East	105 (73.7%)	189 (89.7%)	16.0%	231 (81.5%)	494 (91.4%)	9.9%	336 (78.6%)	683 (90.9%)	12.2%
South-West	150 (75.2%)	249 (87.9%)	12.7%	346 (83.1%)	566 (90.7%)	7.6%	496 (80.2%)	815 (89.7%)	9.4%
Blantyre City	171 (67%)	65 (82.2%)	15.3%	370 (75.9%)	144 (89.5%)	13.6%	541 (72.2%)	209 (86.7%)	14.5%
Marital status									
Never married	56 (52%)	53 (83.5%)	31.5%	100 (57.8%)	83 (79.3%)	21.5%	156 (55.4%)	136 (81.2%)	25.9%
Married or living together	565 (72.6%)	589 (85.8%)	13.2%	853 (79.8%)	887 (90.8%)	11.0%	1418 (76.4%)	1476 (88.4%)	12.1%
Divorced or separated	62 (69.1%)	60 (77.5%)	8.4%	309 (80.9%)	376 (88.9%)	8.0%	371 (78.4%)	436 (86.9%)	8.5%
Widowed	29 (95.1%)	21 (*)	*	241 (88.4%)	267 (95.4%)	7.0%	270 (89.2%)	288 (95.3%)	6.1%
Education									
No education	44 (61.9%)	62 (81.1%)	19.1%	197 (84.4%)	230 (94.3%)	9.9%	241 (79.8%)	292 (90.7%)	10.9%
Primary	428 (71.5%)	449 (86.1%)	14.5%	885 (82%)	1052 (90.8%)	8.8%	1313 (77.8%)	1501 (89.1%)	11.3%
Secondary	202 (74.3%)	188 (86%)	11.7%	368 (70.5%)	308 (87.1%)	16.6%	570 (72.2%)	496 (86.6%)	14.4%
More than secondary	38 (73.8%)	23 (*)	*	53 (83%)	22 (*)	*	91 (77.9%)	45 (73.4%)	-4.6%
Wealth quintile									
Lowest	82 (59.6%)	81 (79.1%)	19.6%	170 (82.1%)	239 (90.7%)	8.6%	252 (73.3%)	320 (87%)	13.6%
Second	81 (71.8%)	105 (86.4%)	14.6%	178 (83.9%)	255 (90.2%)	6.3%	259 (79.2%)	360 (88.9%)	9.7%
Middle	102 (73.6%)	154 (85%)	11.5%	207 (79.3%)	344 (90.1%)	10.8%	309 (77.1%)	498 (88.2%)	11.1%
Fourth	156 (78.4%)	195 (85.6%)	7.2%	271 (82.7%)	401 (91.4%)	8.8%	427 (80.8%)	596 (89.1%)	8.3%
Highest	291 (71.8%)	188 (86.9%)	15.0%	679 (75.7%)	374 (89.3%)	13.6%	970 (74.3%)	562 (88.3%)	14.0%
Pregnancy status									
Currently pregnant				50 (82.5%)	72 (87.4%)	4.9%			
Not currently pregnant				1371 (80.1%)	1529 (90.6%)	10.5%			
Total 15-64	712 (71.7%)	723 (85.2%)	13.5%	1505 (80.2%)	1614 (90.4%)	10.2%	2217 (76.8%)	2337 (88.4%)	11.5%

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