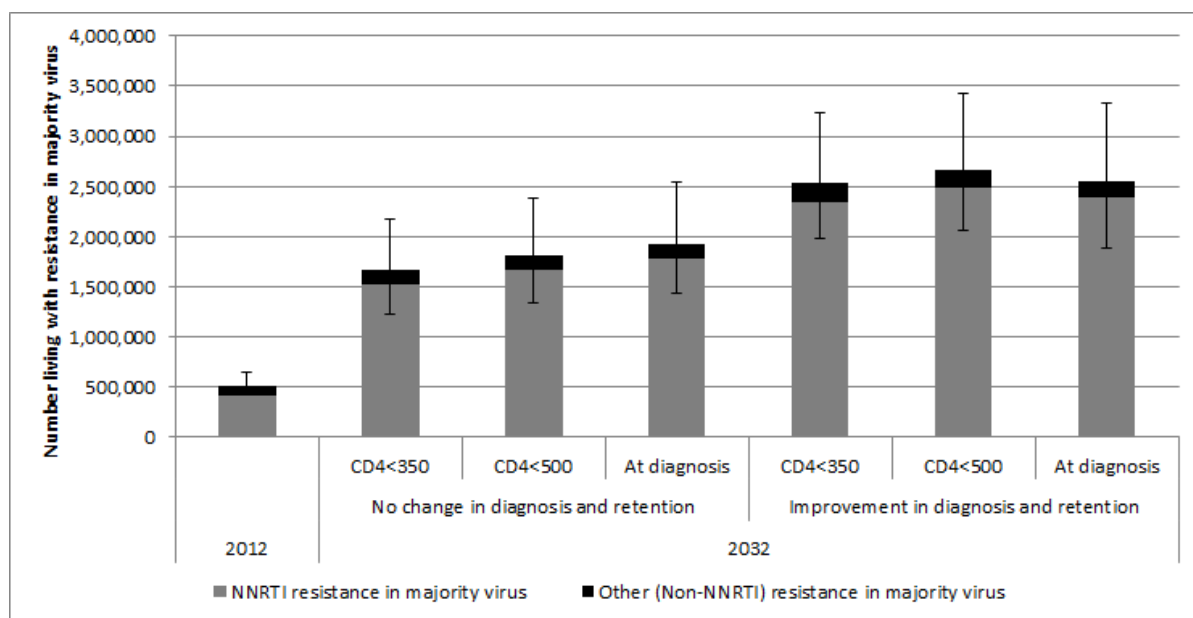


Supplementary Results

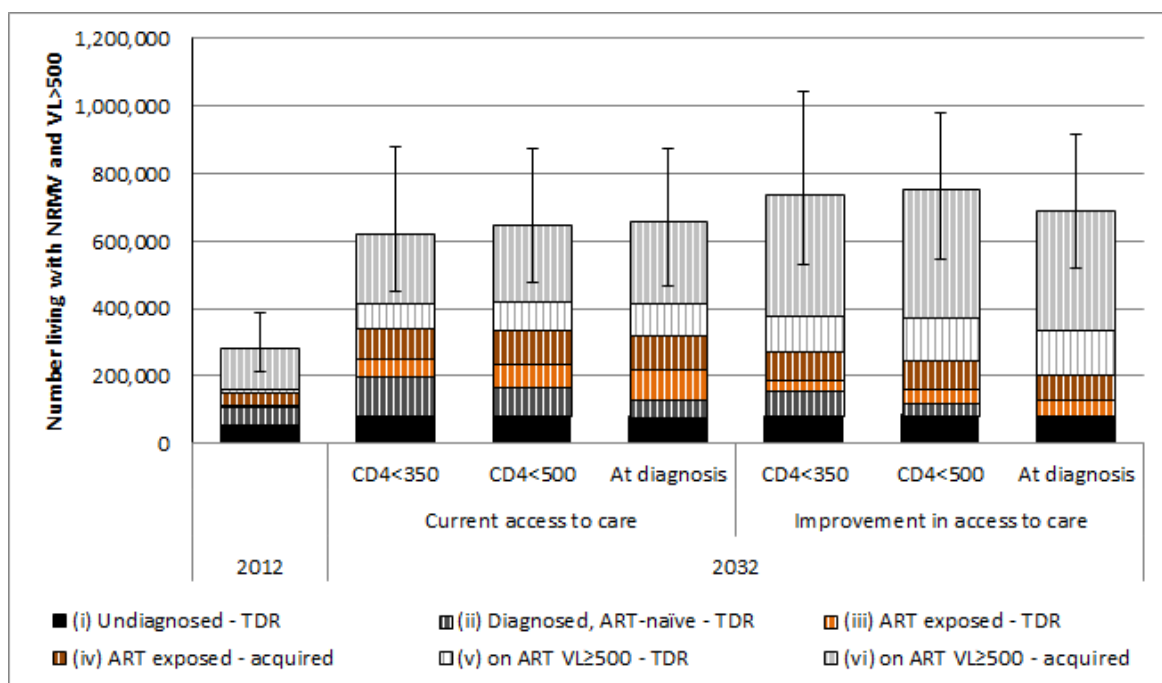
Supplementary Figure 1. (a) Estimated number of people living with any (the entire bar) and NNRTI resistance (the section of the bar in grey) in majority virus (detectable and assumed transmissible) in South Africa in 2012 and 2032 (median and 90% UR); (b) estimated number of people living with NRMV and VL above 500 copies/ml in South Africa in 2012 and 2032 (median and 90% UR); (c) estimated number of people with resistant mutations in majority virus which reduces lopinavir activity at least by half. (d) Incidence of resistance (across all adults) transmitted or acquires in 2012 and 2032;

(a)



% with resistance in majority virus of those living with HIV (15-65)	9.6 (8.1-11.7)	28.4 (22.7-35.1)	31.2 (25.1-37.8)	34.3 (27.9-40.4)	38.2 (32.4-43.9)	41.4 (35.5-46.9)	44.2 (38.6-49.2)
% with resistance In majority Virus in adults 15-65	1.5 (1.3-1.9)	4.5 (3.4-5.8)	4.9 (3.7-6.4)	5.2 (3.9-6.7)	6.6 (5.2-8.4)	7.0 (5.4-8.9)	6.7 (5.0-8.6)

(b)



Status of people living with NRMV and VL > 500 copies/ml

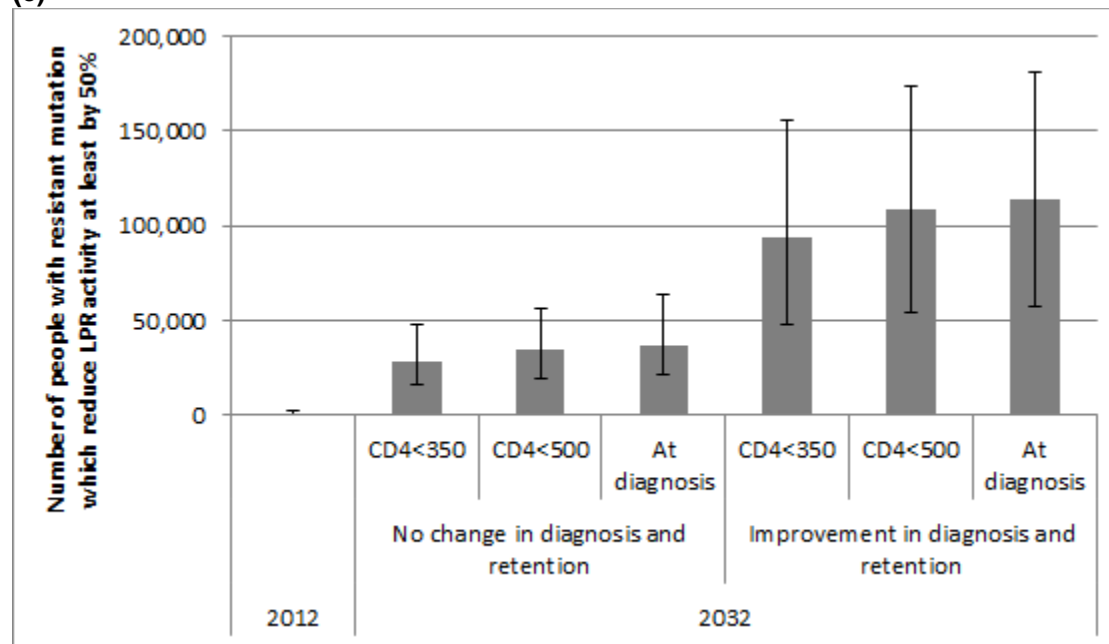
Undiagnosed	20%	12%	13%	14%	11%	12%	13%
Diagnosed ART-naïve	19%	21%	13%	8%	11%	3%	0%
ART exposed	15%	20%	26%	27%	13%	15%	13%
On ART VL ≥ 500 copies/ml	45%	46%	49%	51%	65%	69%	75%

Description of subgroups of people living with NNRTI-resistant virus in majority virus and VL >= 500 copies/ml presented in Supplementary Figure 1b.

The subgroups are presented starting from the bottom of the bar.

(i) Undiagnosed - TDR: people infected with NNRTI-resistant virus living with undiagnosed HIV; (ii) Diagnosed ART-naïve - TDR: people infected with NNRTI-resistant virus, diagnosed with HIV but not initiated on ART; (iii) ART exposed - TDR: people infected with NNRTI-resistant virus, who have been exposed to ART, but currently off treatment; (iv) ART exposed – acquired: people infected with NNRTI-sensitive virus, who have been exposed to ART, but currently off treatment; (v) on ART VL ≥ 500 - TDR: people infected with NNRTI-resistant virus, who are currently on ART with VL ≥ 500 copies/ml; (vi) on ART VL ≥ 500 - acquired: people infected with NNRTI-sensitive virus, who are currently on ART with VL ≥ 500 copies/ml; ;

(c)



(d)

