

Supplementary table 1: Sensitivity analyses of adjusted mortality hazard ratios* for interruption status (I) – no/pre interruption (N) and post interruption (P)

Analysis	I	Person-years of observation	Deaths	Crude mortality rate per 1000 person-years (95% CI)	Adjusted hazard ratio (95% CI)*
Main analysis	N	509408	5469	10.7 (10.5-11.0)	1 (reference)
	P	26925	635	23.6 (21.8-25.5)	1.72 (1.57-1.88)
Include post-return-to-care follow-up with suppressed viral loads	N	509408	5469	10.7 (10.5-11.0)	1 (reference)
	P	49652	852	17.2 (16.0-18.4)	1.60 (1.48-1.73)
Drop post-return-to-care follow-up with CD4 counts \geq350	N	509408	5469	10.7 (10.5-11.0)	1 (reference)
	P	19564	579	29.6 (27.3-32.1)	1.77 (1.61-1.94)
Use ART start CD4 counts rather than time-updating	N	509408	5469	10.7 (10.5-11.0)	1 (reference)
	P	26925	635	23.6 (21.8-25.5)	1.65 (1.51-1.81)
Limiting follow-up to the 3-months after ART start/care interruptions	N	21867	751	34.3 (32.0-36.9)	1 (reference)
	P	2943	105	35.7 (29.5-43.2)	1.17 (0.94-1.46)
Limiting follow-up to the 6-months after ART start/care interruptions	N	44290	1148	25.9 (24.5-27.5)	1 (reference)
	P	5810	173	29.8 (25.7-34.6)	1.29 (1.09-1.54)
Define care interruptions as gaps of \geq270 days	N	441799	4415	10.0 (9.7-10.3)	1 (reference)
	P	86023	1387	16.1 (15.3-17.0)	1.49 (1.40-1.60)
Define care interruptions as gaps of \geq545 days	N	542589	5890	10.9 (10.6-11.1)	1 (reference)
	P	14011	326	23.3 (20.9-25.9)	1.67 (1.48-1.88)

*Adjusted for sex, age at ART initiation/re-initiation, CD4 count at ART initiation/re-initiation, year of ART initiation/re-initiation, and HIV acquisition method, with hazards stratified by cohort.