

Supplementary Material

Table S1. Number of people with a composite event (AIDS, serious non AIDS and all-cause mortality), rates, 95% CI and relative rates in INR (defined as current CD4+ count lower than pre-cART level) and non-INR from fitting a Poisson regression analyses. Overall results and stratified by baseline CD4 count groups.

					Rate Ratio (95% CI) p-value		
	No. events	PYFU	Rate/ 100PYFU	95% CI	Unadjusted	Adjusted(1)	Adjusted(2)
INR							
All patients							
No	189	9713	1.95	1.69, 2.24	1.00	1.00	
Yes	33	630.8	5.23	3.72, 7.36	2.68 (1.85, 3.89) <.001	3.02 (2.01, 4.55) <.001	1.96 (1.31, 2.93) 0.001
CD4 count 0-200							
No	95	3696	2.57	2.10, 3.14			
Yes	6	66.08	9.08	4.08, 20.21	3.50 (1.50, 8.20) 0.004	3.00 (1.27, 7.07) 0.012	1.94 (0.81, 4.65) 0.139
CD4 count 201-350							
No	60	3298	1.82	1.41, 2.34			
Yes	9	141.8	6.35	3.30, 12.20	3.44 (1.72, 6.91) <.001	2.36 (1.10, 5.05) 0.027	0.98 (0.41, 2.34) 0.964
CD4 count 351-500							
No	24	1750	1.37	0.92, 2.05			
Yes	11	143.6	7.66	4.24, 13.83	5.61 (2.80, 11.22) <.001	7.73 (3.60, 16.60) <.001	7.86 (2.72, 22.67) <.001
CD4 count >500							
No	12	995.7	1.2	0.68, 2.12			
Yes	7	279.3	2.51	1.19, 5.26	2.08 (0.81, 5.31) 0.126	1.37 (0.47, 4.05) 0.563	1.62 (0.48, 5.43) 0.435

** (1) Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, CD4, CD8 and viral load at starting cART and type of cART started

** (2) Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, current CD4, CD8 and viral load at starting cART and type of cART started

Table S2. Number of people with a composite event (AIDS, serious non AIDS and all-cause mortality), rates, 95% CI and relative rates in INR (defined as current CD4+ count <150% pre-cART level) and non-INR from fitting a Poisson regression analyses. Overall results and stratified by baseline CD4 count groups.

					Rate Ratio (95% CI) p-value		
	No. events	PYFU	Rate/ 100PYFU	95% CI	Unadjusted	Adjusted(1)	Adjusted(2)
INR							
All patients							
No	150	7803	1.92	1.64, 2.26	1.00	1.00	
Yes	72	2541	2.83	2.25, 3.57	1.47 (1.11, 1.95)	1.81 (1.29, 2.54)	1.28 (0.94, 1.75)
					0.007	<.001	0.118
CD4 count 0-200							
No	88	3542	2.48	2.02, 3.06			
Yes	13	220.1	5.91	3.43, 10.17	2.36 (1.33, 4.19)	1.98 (1.05, 3.75)	1.33 (0.69, 2.54)
					0.003	0.036	0.392
CD4 count 201-350							
No	42	2661	1.58	1.17, 2.14			
Yes	27	778.8	3.47	2.38, 5.06	2.18 (1.34, 3.53)	1.88 (1.12, 3.15)	0.75 (0.38, 1.48)
					0.002	0.017	0.412
CD4 count 351-500							
No	18	1178	1.53	0.96, 2.42			
Yes	17	714.9	2.38	1.48, 3.83	1.56 (0.81, 3.01)	1.95 (0.97, 3.92)	0.93 (0.34, 2.53)
					0.187	0.062	0.884
CD4 count >500							
No	4	445.8	0.9	0.34, 2.39			
Yes	15	829.3	1.81	1.09, 3.00	2.03 (0.67, 6.16)	1.63 (0.48, 5.51)	1.84 (0.46, 7.38)
					0.212	0.428	0.392

**(1)Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, CD4, CD8 and viral load at starting cART and type of cART started

**(2)Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, current CD4, CD8 and viral load at starting cART and type of cART started

Table S3. Number of people with serious non AIDS event or death, rates, 95% CI and relative rates in INR (defined as current CD4+ count lower than pre-cART level) and non-INR from fitting a Poisson regression analyses. Overall results and stratified by baseline CD4 count groups.

	No. events	PYFU	Rate/ 100PYFU	95% CI	Rate Ratio (95% CI) p-value		
					Unadjusted	Adjusted(1)	Adjusted(2)
INR							
All patients							
No	161	9791	1.64	1.41, 1.92	1.00	1.00	1.00
Yes	25	642.8	3.89	2.63, 5.76	2.36 (1.55, 3.61) <.001	2.44 (1.53, 3.89) <.001	1.73 (1.09, 2.73) 0.019
CD4 count 0-200							
No	75	3740	2.01	1.60, 2.51	1.00	1.00	1.00
Yes	4	72.17	5.54	2.08, 14.77	2.75 (0.98, 7.75) 0.055	2.39 (0.85, 6.72) 0.100	1.67 (0.58, 4.83) 0.341
CD4 count 201-350							
No	55	3324	1.65	1.27, 2.16	1.00	1.00	1.00
Yes	6	145.3	4.13	1.85, 9.19	2.48 (1.06, 5.78) 0.036	1.55 (0.61, 3.96) 0.357	0.67 (0.24, 1.89) 0.447
CD4 count 351-500							
No	21	1762	1.19	0.78, 1.83	1.00	1.00	1.00
Yes	9	144.6	6.22	3.24, 11.96	5.24 (2.45, 11.20) <.001	7.97 (3.45, 18.38) <.001	7.73 (2.44, 24.43) <.001
CD4 count >500							
No	11	999.2	1.1	0.61, 1.99	1.00	1.00	1.00
Yes	6	280.8	2.14	0.96, 4.76	1.94 (0.71, 5.29) 0.195	1.30 (0.41, 4.16) 0.657	1.54 (0.42, 5.56) 0.512

**(1)Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, CD4, CD8 and viral load at starting cART and type of cART started

**(2)Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, current CD4, CD8 and viral load at starting cART and type of cART started

Table S4. Number of people with serious non AIDS event or death, rates, 95% CI and relative rates in INR (defined as current CD4+ count <150% pre-cART level) and non-INR from fitting a Poisson regression analyses. Overall results and stratified by baseline CD4 count groups.

					Rate Ratio (95% CI)		
					p-value		
	No. events	PYFU	Rate/ 100PYFU	95% CI	Unadjusted	Adjusted(1)	Adjusted(2)
INR							
All patients							
No	127	7872	1.61	1.36, 1.92	1.00	1.00	1.00
Yes	59	2561	2.30	1.79, 2.97	1.43 (1.05, 1.94)	1.63 (1.13, 2.35)	1.24 (0.88, 1.74)
					0.024	0.010	0.222
CD4 count 0-200							
No	71	3583	1.98	1.57, 2.50	1.00	1.00	1.00
Yes	8	229.0	3.49	1.75, 6.99	1.75 (0.85, 3.60)	1.41 (0.64, 3.10)	1.02 (0.46, 2.27)
					0.126	0.391	0.968
CD4 count 201-350							
No	38	2685	1.42	1.03, 1.94	1.00	1.00	1.00
Yes	23	783.9	2.93	1.95, 4.42	2.06 (1.23, 3.46)	1.71 (0.98, 2.98)	0.81 (0.39, 1.67)
					0.006	0.058	0.564
CD4 count 351-500							
No	15	1189	1.26	0.76, 2.09	1.00	1.00	1.00
Yes	15	717.3	2.09	1.26, 3.47	1.66 (0.81, 3.38)	2.26 (1.07, 4.80)	1.23 (0.42, 3.66)
					0.164	0.034	0.704
CD4 count >500							
No	4	446.8	0.9	0.34, 2.39	1.00	1.00	1.00
Yes	13	833.1	1.56	0.91, 2.69	1.75 (0.57, 5.38)	1.42 (0.41, 4.89)	1.56 (0.37, 6.66)
					0.330	0.582	0.547

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** (2) Adjusted for gender, mode of HIV transmission, nationality, AIDS diagnosis prior to cART, Hepatitis co-infection status (at baseline), calendar year of starting cART, age, current CD4, CD8 and viral load at starting cART and type of cART started