

Supplemental Table 1 Factors associated with baseline QTcB (Bazett), QTcF (Fridericia) and PR in the fully adjusted linear regression model\*

Factor	QTcB (Bazett) Coef. (SE)	p	QTcF (Fridericia) Coef. (SE)	p	PR Duration Coef. (SE)	p
Heart Rate					-0.42 (0.0)	<0.01
Age (year)	0.35 (0.04)	<0.01	0.39 (0.04)	<0.01	0.23 (0.04)	<0.01
Gender (F vs. M)	11.69 (0.73)	<0.01	9.79 (0.72)	<0.01	-4.81 (0.90)	<0.01
Race						
Black (vs. White)	-0.61 (0.76)	0.42	-0.98 (0.76)	0.19	6.83 (0.93)	<0.01
Asian (vs. White)	6.62 (1.80)	<0.01	3.35 (1.78)	0.06	6.64 (2.23)	<0.01
Other Races (vs. White)	-1.04 (0.97)	0.28	-1.26 (0.96)	0.19	-1.47 (1.20)	0.22
Smoking Status						
Current (vs. Never)	0.03 (0.72)	0.97	-0.78 (0.72)	0.28	-3.40 (0.89)	<0.01
Past (vs. Never)	-0.33 (0.79)	0.67	0.35 (0.78)	0.66	-1.91 (0.97)	0.05
Total/HDL Cholesterol Ratio	0.21 (0.13)	0.11	-0.31 (0.13)	0.02	0.36 (0.16)	0.03
Baseline BMI	0.26 (0.06)	<0.01	0.09 (0.06)	0.16	0.34 (0.08)	<0.01
Prior CVD (Y vs. N)	1.79 (1.22)	0.14	-3.45 (1.21)	<0.01	0.34 (1.52)	0.82
Diabetes (Y vs. N)	2.20 (1.64)	0.18	4.66 (1.63)	<0.01	-0.83 (2.03)	0.68
Use of BP-lowering drugs	4.29 (0.85)	<0.01	3.52 (0.84)	<0.01	2.28 (1.05)	0.03
Use of lipid lowering drugs	-0.14 (0.84)	0.86	-0.63 (0.83)	0.45	0.67 (1.03)	0.52
Years since HIV dx	-0.00 (0.07)	0.98	-0.04 (0.07)	0.57	-0.05 (0.08)	0.57
Baseline CD4 (per 100)	-0.03 (0.12)	0.82	-0.03 (0.12)	0.83	-0.21 (0.15)	0.16
Baseline HIV-RNA $\leq$ 400	0.21 (0.85)	0.81	1.39 (0.84)	0.10	0.10 (1.04)	0.92
NRTI backbone regimen						
AZT + 3TC (without ABC)	Ref.	-	Ref.	-	Ref.	-
TNV (without ABC)	-3.13 (0.91)	<0.01	-2.55 (0.90)	<0.01	1.29 (1.11)	0.25
ABC (without TNV)	-0.92 (0.95)	0.33	-1.26 (0.94)	0.18	2.06 (1.16)	0.08
3TC + d4T	-2.57 (0.94)	<0.01	-3.50 (0.93)	<0.01	0.06 (1.16)	0.96
Other NRTI regimens	-1.28 (0.95)	0.18	-1.88 (0.94)	0.05	2.58 (1.17)	0.03

\*All variables are included in the model in addition to ART use. Multivariable association of ART use with QTcB, QTcF and PR are listed in Table 3 in the main article.

Supplemental Table 2 Change in baseline QT duration and PR interval after 12 months of continuous versus interrupted use of HIV medications (Intention-to-treat analysis)

Measure	DC Group			VS Group					
	N	Baseline Mean (SD)	Change (M12-BL) Mean (SD)	p*	N	Baseline Mean (SD)	Change (M12-BL) Mean (SD)	p*	P **
<b>QTcB (Bazett)</b>									
Any PI/r	406	414.3 (17.66)	0.48 (15.67)	0.54	435	415.7 (18.85)	0.69 (18.00)	0.43	0.74
SQV/r	100	419.7 (19.31)	-0.24 (15.80)	0.88	106	422.0 (19.11)	-0.60 (20.83)	0.77	0.91
LPV/r	189	412.2 (16.56)	2.26 (15.27)	0.04	201	413.9 (18.38)	1.17 (16.93)	0.33	0.43
Other PI/r <sup>s</sup>	117	413.3 (17.12)	-1.79 (15.99)	0.23	128	413.4 (18.34)	1.00 (17.17)	0.51	0.41
Non-boosted PI	293	417.1 (20.64)	-0.30 (20.42)	0.80	270	416.3 (20.47)	1.43 (18.69)	0.21	0.24
<b>QTcF (Fridericia)</b>									
Any PI/r	406	405.7 (17.40)	-0.64 (15.27)	0.40	435	407.6 (18.38)	0.72 (17.96)	0.41	0.10
SQV/r	100	410.7 (18.16)	-0.54 (14.88)	0.72	106	412.2 (18.00)	0.49 (19.80)	0.80	0.55
LPV/r	189	404.7 (16.90)	0.11 (15.00)	0.92	201	405.5 (18.37)	1.66 (17.00)	0.17	0.57
Other PI/r <sup>s</sup>	117	403.2 (16.84)	-1.95 (16.06)	0.19	128	407.0 (18.17)	-0.57 (17.90)	0.72	0.18
Non-boosted PI	293	408.7 (21.52)	-1.91 (19.91)	0.10	270	408.0 (19.32)	0.29 (17.13)	0.78	0.14
<b>PR Interval</b>									
Any PI/r	480	161.5 (24.94)	-0.92 (15.19)	0.18	509	161.6 (24.04)	-1.54 (16.08)	0.03	0.52
SQV/r	104	160.1 (21.41)	-0.79 (12.06)	0.51	113	155.1 (19.92)	-0.94 (11.91)	0.40	0.51
LPV/r	230	162.4 (23.19)	-1.36 (12.65)	0.10	231	163.3 (26.49)	-1.54 (14.81)	0.12	0.76
Other PI/r <sup>s</sup>	146	161.2 (29.60)	-0.33 (20.15)	0.84	165	163.7 (22.29)	-1.96 (19.90)	0.21	0.87
Non-boosted PI	335	160.0 (21.86)	-0.69 (12.56)	0.32	305	160.6 (23.49)	-0.45 (13.45)	0.56	0.59

SQV/r, LPV/r, ATV/r, and PI/r = Saquinavir, Lopinavir, Atazanavir and Protease Inhibitors boosted with Ritonavir; NNRTI = Non-nucleoside Reverse Transcriptase Inhibitor; NRTI = Nucleoside Reverse Transcriptase Inhibitor. \* p-value obtained from paired T test comparing baseline and month 12 mean values of PR and QT. \*\* p-value for comparison between mean changes in the DC group versus VS group after adjusting for baseline value, age, gender, race, smoking status, total cholesterol/HDL ratio, BMI, prior CVD, diabetes, use of blood pressure lowering drugs, use of lipid lowering drugs, duration of HIV infection, and baseline CD4 and HIV-RNA (plus heart rate in the PR models); NNRTI = Non-nucleoside Reverse Transcriptase Inhibitor. <sup>s</sup> Including atazanavir boosted with ritonavir.

Supplemental Table 3 Change in baseline QTc and PR interval durations after 24 months of continuous versus interrupted use of HIV medications (Intention-to-treat analysis)

Measure	DC Group				VS Group				
	N	Baseline Mean (SD)	Change (M24-BL) Mean (SD)	p*	N	Baseline Mean (SD)	Change (M24-BL) Mean (SD)	p*	P**
<b>QTcB (Bazett)</b>									
Any PI/r	235	412.1 (16.98)	0.71 (16.13)	0.50	253	414.7 (17.11)	1.03 (16.06)	0.31	0.90
SQV/r	27	410.9 (15.09)	-3.06 (12.36)	0.21	30	419.3 (13.10)	1.04 (15.09)	0.71	0.06
LPV/r	121	411.8 (17.20)	2.97 (18.41)	0.08	142	414.0 (17.42)	1.12 (16.59)	0.42	0.17
Other PI/r <sup>§</sup>	87	412.9 (17.37)	-1.26 (13.15)	0.37	81	414.1 (17.79)	0.87 (15.65)	0.62	0.83
Non-boosted PI	206	417.2 (19.78)	-2.13 (20.16)	0.13	192	414.2 (18.96)	1.26 (17.93)	0.33	0.20
<b>QTcF (Fridericia)</b>									
Any PI/r	235	404.2 (16.83)	-0.59 (17.26)	0.60	253	406.3 (16.99)	1.38 (15.99)	0.17	0.20
SQV/r	27	402.5 (18.19)	-4.27 (14.83)	0.15	30	409.9 (16.64)	1.50 (16.05)	0.61	0.02
LPV/r	121	405.1 (16.56)	0.83 (19.72)	0.64	142	405.1 (16.42)	2.48 (16.29)	0.07	0.97
Other PI/r <sup>§</sup>	87	403.4 (16.88)	-1.42 (13.91)	0.34	81	407.0 (18.06)	-0.59 (15.43)	0.73	0.92
Non-boosted PI	206	408.0 (20.70)	-2.98 (19.68)	0.03	192	406.2 (19.06)	1.30 (17.31)	0.30	0.02
<b>PR Interval</b>									
Any PI/r	279	162.4 (26.40)	-1.55 (17.78)	0.15	300	162.9 (24.38)	0.77 (14.40)	0.35	0.07
SQV/r	31	162.0 (25.64)	-2.65 (14.60)	0.32	35	156.2 (20.97)	0.46 (15.81)	0.87	0.79
LPV/r	145	163.4 (21.07)	-1.17 (15.87)	0.38	165	164.1 (25.77)	1.28 (14.05)	0.24	0.17
Other PI/r <sup>§</sup>	103	161.1 (32.79)	-1.77 (21.03)	0.40	100	163.3 (22.92)	0.05 (14.56)	0.97	0.15
Non-boosted PI	237	159.4 (21.96)	-1.31 (19.05)	0.29	228	161.6 (23.56)	-0.10 (14.16)	0.92	0.20

SQV/r, LPV/r, ATV/r, and PI/r = Saquinavir, Lopinavir, Atazanavir and Protease Inhibitors boosted with Ritonavir; NNRTI = Non-nucleoside Reverse Transcriptase Inhibitor; NRTI = Nucleoside Reverse Transcriptase Inhibitor. \*p-value obtained from paired T test comparing baseline and month -24 mean values of PR and QT. \*\*p-value for comparison between mean changes in the DC group versus VS group after adjusting for baseline value, age, gender, race, smoking status, total cholesterol/HDL ratio, BMI, prior CVD, diabetes, use of blood pressure lowering drugs, use of lipid lowering drugs, duration of HIV infection, and baseline CD4 and HIV-RNA (plus heart rate in the PR models); NNRTI = Non-nucleoside Reverse Transcriptase Inhibitor. <sup>§</sup>Including atazanavir boosted with ritonavir.