Supplementary Table: Behavioural and psychosocial characteristics and baseline demographic variables of users of daily oral PrEP (emtricitabine/tenofovir disoproxil), associated with TFV-DP concentration in linear regression analysis using generalised estimating equations. Sensistivity analysis excluding visits on which participants switched to event-driven PrEP (n=250; total number of DBS samples=440). AMPrEP study, Amsterdam, 2015-2018.

Univariable			Multivariable		
βª	(95% CI)	p value	βª	(95% CI)	p value
		-			
		0.0063			0.0014
35.4	(-248 to 319)		29.7	(-260 to 319)	
21.8	(-228 to 271)		28.5	(-226 to 283)	
131	(-120 to 382)		144	(-110 to 399)	
288	(1.06 to 576)		308	(21.5 to 595)	
469	(107 to 832)		496	(141 to 852)	
-88.6	(-253 to 76.0)	0.29			
-31.4	(-159 to 96.3)	0.63			
0		0.74			
-24.1	(-166 to 118)				
	. ,				
0		0.30			
	(-462 to 216)	0.00			
-	. ,				
120	(01.010020)				
0		0.07			
	(117 to 005)	0.97			
39.5	(-132 to 211)				
0		0.000			
-		0.029			
	· · · · · ·				
-17.6		0.77			
161	(14.5 to 308)	0.031			
-323	(-136 to 71.2)	0.54			
	· · · ·				
40.1	(-9.92 to 90.1)	0.12			
25.3	(-16.1 to 66.7)	0.23			
20.0	(10.1 10 00.1)	0.20			
191	(48.4 to 333)	0.0086	183	(50.5 to 315)	0.0068
	, , , , , , , , , , , , , , , , , , ,			. ,	
46.0	(172 to 70.2)	0.47			
	· · · ·				
	,				
-52.3	(-186 to 81.4)	0.44			
-49.2	(-171 to 73.0)	0.43			
-42.7	(-152 to 66.9)	0.58			
	· · · ·				
83.2	(-51.9 to 218)	0.24			
126	(2.01 to 251)	0.046	136	(18.5 to 253)	0.023
	(======================================	0.0.0		(1010 10 200)	0.020
677	(121 to 177)	0.025	76 1	(120 to 12 4)	0.018
-07.7	(-13110-4.77)	0.035	-70.1	(-13910-13.4)	0.016
	35.4 21.8 131 288 469 -88.6 -31.4 0 -24.1 0 -123 129 0 44.0 39.5 0 29.8 -202 -17.6 161 -32.3 40.1 25.3 191 -46.9 -5.53 -52.3 -49.2 -42.7 104	Univariable β^a (95% Cl)35.4(-248 to 319)21.8(-228 to 271)131(-120 to 382)288(1.06 to 576)469(107 to 832)-88.6(-253 to 76.0)-31.4(-159 to 96.3)0(-462 to 216)129(-61.8 to 320)0(-117 to 205)39.5(-132 to 211)029.8-95.8 to 155)-202(-376 to -28.9)-17.6(-136 to 71.2)40.1(-9.92 to 90.1)25.3(-16.1 to 66.7)191(48.4 to 333)-46.9(-173 to 79.3)-5.53(-105 to 93.6)-52.3(-161 to 71.2)40.4(-70.3 to 278)83.2(-51.9 to 218)126(2.01 to 251)	Univariable β^a (95% C)p value0.0063 35.4 $(-248 to 319)$ 21.8 $(-228 to 271)$ 131 $(-120 to 382)$ 288 $(1.06 to 576)$ 469 469 $(107 to 832)$ -88.6 $(-253 to 76.0)$ 0.29 -31.4 $(-159 to 96.3)$ 0.63 0 0 0.74 0.74 -24.1 $-166 to 118$ 0.30 -123 $(-462 to 216)$ 129 $(-61.8 to 320)$ 0.029 0 0.97 0.97 44.0 $(-117 to 205)$ 0.029 29.8 $(-95.8 to 155)$ -202 -202 $(-376 to -28.9)$ $-776 to -28.9)$ -17.6 $(-136 to 71.2)$ 0.54 40.1 $(-9.92 to 90.1)$ 0.12 25.3 $(-16.1 to 66.7)$ 0.23 191 $(48.4 to 333)$ 0.0086 -46.9 $(-173 to 79.3)$ 0.47 -5.53 $(-105 to 93.6)$ 0.91 -52.3 $(-186 to 81.4)$ 0.43 -49.2 $(-171 to 73.0)$ 0.43 -42.7 $(-152 to 66.9)$ 0.58 104 $(-70.3 to 278)$ 0.24 83.2 $(-51.9 to 218)$ 0.23	Univariable β^a (95% ci)p value β^a 35.4 $(-248 to 319)$ 29.7 21.8 $(-228 to 271)$ 28.5 131 $(-120 to 382)$ 144 288 $(1.06 to 576)$ 308 469 $(107 to 832)$ 0.29 -88.6 $(-253 to 76.0)$ 0.29 -31.4 $(-159 to 96.3)$ 0.63 0 0.740.74 -24.1 $(-166 to 118)$ 0.30 0 0.30-123 $(-462 to 216)$ 0.30 129 $(-61.8 to 320)$ 0 0.97 44.0 $(-117 to 205)$ 39.5 $(-132 to 211)$ 0 0.029 29.8 $(-95.8 to 155)$ -202 $(-376 to -28.9)$ -17.6 $(-136 to 71.2)$ 0.54 0.11 $(-9.92 to 90.1)$ 0.12 25.3 $(-16.1 to 66.7)$ 0.23 $(-173 to 79.3)$ 0.47 -5.53 $(-105 to 93.6)$ 0.91 -52.3 $(-166 to 81.4)$ 0.43 -46.9 $(-173 to 79.3)$ 0.43 -42.7 $(-152 to 66.9)$ 0.58 104 $(-70.3 to 278)$ 0.24 83.2 $(-51.9 to 218)$ 0.24 83.2 $(2.01 to 251)$ 0.046 136	UnivariableMultivariable β^a (95% Cl)p value β^a (95% Cl) 35.4 $(-248 to 319)$ 28.5 $(-260 to 319)$ 28.5 $(-226 to 233)$ 21.8 $(-120 to 382)$ 28.5 $(-226 to 236)$ 308 $(21.5 to 595)$ 496 $(107 to 832)$ 308 $(21.5 to 595)$ 496 $(141 to 852)$ 486 $(-253 to 76.0)$ 0.29 496 $(141 to 852)$ -88.6 $(-253 to 76.0)$ 0.29 496 $(141 to 852)$ -88.6 $(-253 to 76.0)$ 0.29 496 $(141 to 852)$ 0 0.74 0.74 -123 $(-462 to 216)$ -123 0 0.30 0.97 $-132 to 211$ $-132 to 211$ $-132 to 211$ 0 0.029 $-132 to 211$ $-132 to 211$ $-132 to 211$ $-132 to 211$ 0 0.029 $-132 to 211$ 0.54 $-136 to 71.2$ 0.54 40.1 $(-9.92 to 90.1)$ 0.12 $-132 to 210 to 213$ $-132 to 210 to 213$ -17.6 $(-136 to 71.2)$ 0.54 $-138 to 323$ $-138 to 323$ -17.6 $(-136 to 71.2)$ 0.54 $-138 to 323$ $-138 to 323$ -46.9 $(-173 to 79.3)$ 0.47 $-553 to 155 to 315$ -52.3 $(-168 to 81.4)$ 0.44 -49.2 $(-171 to 73.0)$ 0.43 -42.7 $(-152 to 66.9)$ $0.58 to 24$ $-138 to 278$ $-24 ta 23 to 278$ -126 $(2.01 to 251)$ 0.046 136 $(18.5 to 253)$

AMPrEP: Amsterdam PrEP demonstration project; DBS: dried blood spots; MHI-5: Mental Health Inventory-5; PrEP: pre-exposure prophylaxis; TFV-DP: tenofovir diphosphate.

^a TFV-DP concentration in DBS in fmol/punch; ^b 6 missing; ^c 27 missing; ^d 5 missing; ^e 2 missing; ^f 4 missing; ^g 14 missing; ^h 16 missing; ⁱ Use of γ-hydroxybutyrate, γ-Butyrolactone, methamphatamine or mephedrone prior to or during sex in the 3 months prior to inclusion into AMPrEP; ^j Indication of an anxiety or depressive mood disorder; ^k Indication of an alcohol use disorder, 15 missing; ⁿ Scale 1-7, dichotomised, at baseline.