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## Appendix E: Full Stage 3 Models for the domains

**Table s1: Adjusted associations with engagement in care and variables from the Sociodemographic domain**

Variable	Multivariable analysis stage 3	
	Odds Ratio (95% CI)	P value
<b>A-priori domain</b>		
Month of follow-up (1-12), per month later	0.99 (0.95, 1.03)	0.48
Sex		
Male	1	-
Female	0.90 (0.61, 1.34)	0.62
Entry age, per year increase	0.89 (0.82, 0.97)	0.005
Ethnicity		
Black	1	-
Asian/mixed	0.47 (0.27, 0.82)	0.03
White	1.03 (0.34, 3.14)	
Born outside the UK		
No	1	-
Yes	0.94 (0.63, 1.42)	0.78
<b>Sociodemographic domain</b>		
Ever excluded from school		
No	1	-
Yes	0.61 (0.38, 0.99)	0.04
Main language spoken at home		
English/English and another lang	1	-
A language other than English	0.52 (0.24, 1.16)	0.11

**Table s2: Adjusted associations with engagement in care and variables from the Risk behaviour practices domain**

Variable	Multivariable analysis stage 3	
	Odds Ratio (95% CI)	P value
<b>A-priori domain</b>		
<b>c</b>		
Month of follow-up (1-12), per month later	1.00 (0.96, 1.04)	0.86
Sex		
Male	1	-
Female	0.97 (0.66, 1.43)	0.89
Entry age, per year increase	0.88 (0.52, 3.30)	0.006
Ethnicity		
Black	1	-
Asian/mixed	0.50 (0.29, 0.86)	0.04
White	0.99 (0.37, 2.62)	
Born outside the UK		
No	1	-
Yes	0.81 (0.53, 1.24)	0.33
<b>Risk behaviour practices domain</b>		
Hazardous drinking		
No drinking	1	-
Light drinking	0.64 (0.40, 1.01)	0.12
Hazardous drinking	0.57 (0.28, 1.19)	
Condom use		
Not sexually active	1	-
Always use a condom	1.76 (0.95, 3.26)	0.07
Do not always use a condom	0.80 (0.42, 1.54)	

**Table s3: Adjusted associations with engagement in care and variables from the Mental health domain**

Variable	Multivariable analysis stage 3	
	Odds Ratio (95% CI)	P value
<b><i>A-priori domain</i></b>		
Month of follow-up (1-12), per month later	0.99 (0.95, 1.03)	0.65
Sex		
Male	1	-
Female	1.08 (0.73, 1.61)	0.70
Entry age, per year increase	0.90 (0.82, 0.98)	0.01
Ethnicity		
Black	1	-
Asian/mixed	0.45 (0.26, 0.78)	0.02
White	0.98 (0.33, 2.93)	
Born outside the UK		
No	1	-
Yes	0.97 (0.63, 1.47)	0.87
<b>Mental Health domain</b>		
Self-harm ever		
No	1	-
Yes	0.66 (0.38, 1.14)	0.14

**Table s4: Adjusted associations with engagement in care and variables from the Clinic domain**

Variable	Multivariable analysis stage 3	
	Odds Ratio (95% CI)	P value
<b>A-priori domain</b>		
Month of follow-up (1-12), per month later	0.99 (0.94, 1.03)	0.32
Sex		
Male	1	-
Female	0.92 (0.61, 1.38)	0.68
Entry age, per year increase	0.83 (0.73, 0.94)	0.003
Ethnicity		
Black	1	-
Asian/mixed	0.44 (0.24, 0.78)	0.01
White	1.46 (0.41, 5.22)	
Born outside the UK		
No	1	-
Yes	1.02 (0.67, 1.55)	0.92
<b>Clinic domain</b>		
Clinic type		
Paediatric clinic	1	-
Adolescent clinic	1.42 (0.67, 3.00)	0.14
Adult/GUM clinic	3.88 (1.00, 15.10)	
Travel time to clinic , per 10 min increase	0.97 (0.94, 1.00)	0.08

**Table s5: Adjusted associations with engagement in care and variables from the HIV experience and management domain**

Variable	Multivariable analysis stage 3	
	Odds Ratio (95% CI)	P value
<b>A-priori domain</b>		
Month of follow-up (1-12), per year later	0.99 (0.95, 1.03)	0.67
Sex		
Male	1	-
Female	1.07 (0.85, 1.54)	0.73
Entry age, per year increase	0.92 (0.85, 0.99)	0.003
Ethnicity		
Black	1	-
Asian/mixed	0.41 (0.25, 0.67)	0.002
White	0.68 (0.23, 2.02)	
Born outside the UK		
No	1	-
Yes	0.90 (0.61, 1.33)	0.61
<b>HIV experience and management domain</b>		
Adherence self-assessment		
Excellent/ good	1	-
Not so good bad	0.39 (0.23, 0.64)	<0.001
Not on ART	0.35 (0.21, 0.59)	

**Table s6: Adjusted associations with engagement in care and variables from the HIV markers domain**

Variable	Multivariable analysis stage 3	
	Odds Ratio (95% CI)	P value
<b><i>A-priori</i> domain</b>		
Month of follow-up (1-12), per month later	0.97 (0.93, 1.01)	0.15
Sex		
Male	1	-
Female	1.31 (0.84, 0.98)	0.17
Entry age, per year increase	0.91 (0.85, 0.99)	0.02
Ethnicity		
Black	1	-
Asian/mixed	0.51 (0.27, 0.94)	<0.001
White	1.13 (0.34, 3.80)	
Born outside the UK		
No	1	-
Yes	0.93 (0.62, 1.40)	0.74
<b>HIV marker domain</b>		
Viral load (c/mL)		
≤50	1	-
>50	0.33 (0.23, 0.48)	<0.001