Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance
placed on this supplemental material which has been supplied by the author(s)

Sex Transm Infect

Appendix 1: Characteristics of GBMSM participating in the 2021 RiiSH-COVID survey by recruitment site

	2021 All participants (N= 1,039) % (n)	2021 participants recruited through social media (N=567) % (n)	2021 participants recruited through Grindr (N=452) % (n)	p-value *for differences in samples by recruitment site*
Participants' characteristics				
Median Age (years) (IQR; range)	41 (31-51; 17-81)	42 (31-52; 17-81)	39 (31-50; 17-77)	
Age category (years)				
16-29	21.9 (227)	21.7 (123)	22.8 (103)	0.024
30-44	37.2 (386)	33.9 (192)	40.9 (185)	
45 and over	40.9 (425)	44.4 (251)	36.3 (164)	
Gender identity				
Cis male	95.7 (994)	96.1 (545)	95.1 (430)	0.671
Trans male	1.5 (16)	1.6 (9)	1.6 (7)	
Trans female	0.3 (3)	0.4 (2)	0.2 (1)	
All other gender identities	2.5 (26)	1.9 (11)	3.1 (14)	
Ethnicity				
White (inc. white minorities)	88.1 (915)	90.5 (513)	84.7 (383)	0.005
Black	1.5 (16)	0.5 (3)	2.9 (13)	
Asian	5.6 (58)	4.6 (26)	7.1 (32)	
Mixed and/or other ethnic groups	4.8 (50)	4.4 (25)	5.3 (24)	
Sexual identity				
Gay	80.9 (841)	86.2 (489)	74.6 (337)	<0.001
Bisexual	14.0 (145)	9.9 (56)	19.3 (87)	
Straight	0.6 (6)	0.7 (4)	0.4 (2)	
All other sexual identities	4.5 (47)	3.2 (18)	5.8 (26)	
Country of residence in the UK				

Supplemental material

BMJ Publishing Group Limited (BMJ) disclaims all liability and responsibility arising from any reliance placed on this supplemental material which has been supplied by the author(s)

Sex Transm Infect

England	85.6 (889)	85.7 (486)	85.2 (385)	0.098
Scotland	7.5 (78)	6.9 (39)	8.6 (39)	
Wales	4.7 (49)	5.8 (33)	3.3 (15)	
Northern Ireland	2.2 (23)	1.6 (9)	2.9 (13)	
Born in the UK				
Yes	76.3 (793)	77.1 (437)	75.4 (341)	0.543
Highest educational qualification				
Degree or higher	56.8 (590)	59.1 (335)	53.5 (242)	0.076
Currently employed				
Yes	75.7 (786)	76.7 (435)	75.0 (339)	0.523
Living alone				
Yes	39.4 (409)	35.8 (203)	43.1 (195)	0.017
Living with partner(s)				
Yes	33.3 (346)	38.3 (217)	26.6 (120)	<0.001
Anxiety level				
High	36.1 (372)	35.7 (202)	36.3 (162)	0.835
Life satisfaction level				
Low	17.3 (179)	15.7 (89)	19.4 (87)	0.120
Living with a HIV diagnosis				
Yes	11.6 (120)	12.2 (69)	10.6 (48)	0.441
PrEP use (in the lookback) if HIV-negative/unknown				
Yes	31.9 (293)	29.3 (146)	34.4 (139)	0.102

Appendix 2: Sexual behaviour reported since restrictions lifted (August-November/December 2020) by GBMSM participating in the 2021 RiiSH-COVID survey

	2021 survey (N=1,039)
Sexual behaviour (reported in the lookback)	
No. of new partners (if reporting sex)	N=946
None	22.0 (208)
One	14.7 (139)
2-4	28.0 (265)
5-9	16.6 (157)
10 or more	18.7 (177)
Where participants met new sex partners	N=738
Dating applications	77.8 (574)
Gay websites	41.1 (303)
Cruising location	21.0 (155)
Private gay sex party	10.7 (79)
Through friends	14.5 (107)
Within household	11.5 (85)
Elsewhere	18.6 (137)
Through gay organisation or group	7.3 (54)
No. of CAS partners (if reporting any CAS)	N=688
One	34.6 (238)
2-4	35.2 (242)
5-9	12.2 (84)
10+	18.0 (124)
Use of chemsex drugs	N=1039
Ever	14.4 (150)
In the lookback	5.5 (57)

Appendix 3: Characteristics of cis/trans identifying GBMSM recruited via Grindr for the 2017 and 2021 RiiSH surveys.

	2021 Grindr sample (N=437) % (n)	2017 Grindr sample (N=1902) % (n)	P value (differences between profiles in 2021 vs 2017)
Demographics			
	Median (IQR: range)	**Median (IQR: range)**	
Age (years)	40 (31-50; 17-77)	37 (28-48; 16-76)	
16-29	22.7 (99)	29.8 (566)	0.009
30-44	40.7 (178)	37.5 (713)	
45-59	29.3 (128)	29.3 (128)	
60+	7.3 (32)	7.3 (32)	
Ethnic group			
White	84.9 (371)	90.1 (1688)	0.011
Black	2.8 (12)	2.2 (42)	
Asian	6.9 (30)	3.8 (72)	
Mixed or other	5.5 (24)	3.8 (72)	
Gender identity			
Cisgender male	98.4 (430)	99.4 (1890)	0.041
Transgender male	1.6 (7)	0.6 (12)	
Country of residence			
England	85.4 (373)	93.7 (1782)	<0.001
Scotland	8.7 (38)	0.6 (12)	
Wales	3.2 (14)	5.6 (106)	
Northern Ireland	2.8 (12)	0.1 (2)	
Educated to degree level	53.8 (235)	50.4 (951)	0.203
Single	63.8 (279)	61.9 (1173)	0.450
HIV positive	10.8 (47)	11.4 (217)	0.697