

# Vital Statistics 2008 The UK *Gay Men's Sex Survey*

## Scotland NHS Health Boards of residence data report

(December 2009, n = 276)

This report uses data from the UK *Gay Men's Sex Survey* (GMSS) 2008, conducted by Sigma Research in collaboration with health promoters throughout the UK. It supplements the main survey report which will be published in early 2010. Survey methods and interpretation of the variables will be outlined in that report.

This data is intended to provide HIV health promotion planners with information about their local population of gay men and bisexual men. The report contains data from men who live in Scotland and for whom their NHS Health Board of residence is known. Respondents are grouped according to the Health Board in which they live.

There are also whole country reports for England, Wales, Northern Ireland and the Republic of Ireland, with men grouped according to their region of residence. There are also individual data reports for each Strategic Health Authority (SHA) in England, with men grouped according to their Primary Care Trust (PCT) of residence.

These 2008 reports, and similar reports for previous years, are available at:

[www.sigmaresearch.org.uk/gmss/go.php/year](http://www.sigmaresearch.org.uk/gmss/go.php/year)

### *The data*

The survey used two data collection methods over the summer of 2008: a self-sealing, Freepost addressed booklet distributed by health promotion agencies; and via a specific website promoted via links on gay and HIV-related websites.

This report contains data from all the men recruited through **both methods**. To be included in the sample respondents had to: be male; be aged 14 or over; be living in the UK; have had sex with a man in the last year or have a gay, bisexual or other "queer" identity; have completed at least one demographic question and one other question. Differences between the number of surveys returned and the number of men who appear in the sample are due to these exclusions.

### *The tables*

Groups of men living in the same NHS Health Board appear as a row (horizontal line) in the tables. The bottom row of each table gives the result for all men living in Scotland. The first table shows the number of men recruited to the survey living in NHS Health Boards and the size of the sub-samples in the rest of the tables. NHS Health Boards with fewer than 20 men in the sample are reported as "all other Scottish men". The tables show the proportions (%) of each sub-sample for that variable (less missing data). Rows add up to 100%. The only exception to this layout is table 3, Age averages.

### *Questionnaires*

The contents page identifies the Booklet question number (Q) each table is derived from. The questionnaire used in the survey is available to download at:

[www.sigmaresearch.org.uk/files/VS2008booklet.pdf](http://www.sigmaresearch.org.uk/files/VS2008booklet.pdf)

### *Funding*

The survey was funded by Terrence Higgins Trust as part of CHAPS, a national HIV prevention initiative funded by the English Department of Health. Online recruitment occurred in England, Wales, Scotland, Northern Ireland and the Republic of Ireland. Booklet recruitment only occurred in England and Wales.



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# Sample Description

## 1. Web and booklet sample sizes by NHS Health Board of residence.

Count

	Distribution method		Total
	Web	Booklet	
NHS Ayrshire and Arran	15	3	18
NHS Borders	6	0	6
NHS Dumfries and Galloway	2	0	2
NHS Fife	6	0	6
NHS Forth Valley	9	0	9
NHS Grampian	42	1	43
NHS Greater Glasgow	60	4	64
NHS Highland	12	0	12
NHS Lanarkshire	20	0	20
NHS Lothian	65	2	67
NHS Orkney	1	0	1
NHS Tayside	21	0	21
NHS Board Unknown	5	2	7
Total	264	12	276

## 2. Age, in 5 groups (Q6)

% within NHS Boards (Scotland)

	Age, in 5 groups (Q6)					Total
	<20	20s	30s	40s	50+	
NHS Grampian	23.3%	25.6%	30.2%	20.9%		100.0%
NHS Greater Glasgow	4.7%	39.1%	31.3%	23.4%	1.6%	100.0%
NHS Lanarkshire		40.0%	30.0%	25.0%	5.0%	100.0%
NHS Lothian	4.5%	31.3%	29.9%	17.9%	16.4%	100.0%
NHS Tayside	14.3%	28.6%	33.3%	9.5%	14.3%	100.0%
All Other Scottish Men	8.2%	26.2%	26.2%	26.2%	13.1%	100.0%
Total	8.7%	31.5%	29.7%	21.4%	8.7%	100.0%

## 3. Age averages (Q6)

Age averages (Q6)

NHS Boards (Scotland)	Median	Mean	Minimum	Maximum	Std. Deviation
NHS Grampian	30.0000	30.0465	16.00	47.00	9.62129
NHS Greater Glasgow	32.5000	33.0781	16.00	62.00	9.81787
NHS Lanarkshire	30.5000	33.0000	20.00	57.00	10.17220
NHS Lothian	36.0000	35.7015	15.00	66.00	11.68399
NHS Tayside	34.0000	33.5714	16.00	62.00	13.33256
All Other Scottish Men	35.0000	35.7869	16.00	80.00	12.73462
Total	33.5000	33.8732	15.00	80.00	11.33884

#### 4. Ethnicity, in 6 groups (Q7)

% within NHS Boards (Scotland)

	Ethnicity, in 6 groups (Q7)					Total
	White British	White other	Asian	Mixed	Other	
NHS Grampian	93.0%	2.3%	2.3%	2.3%		100.0%
NHS Greater Glasgow	90.5%	4.8%	1.6%		3.2%	100.0%
NHS Lanarkshire	90.0%	10.0%				100.0%
NHS Lothian	89.6%	6.0%	4.5%			100.0%
NHS Tayside	100.0%					100.0%
All Other Scottish Men	95.1%	3.3%			1.6%	100.0%
Total	92.4%	4.4%	1.8%	.4%	1.1%	100.0%

#### 5. Highest education qualification (Q8)

% within NHS Boards (Scotland)

	Highest education qualification (Q8)			Total
	Low	Medium	High	
NHS Grampian	23.3%	39.5%	37.2%	100.0%
NHS Greater Glasgow	17.2%	18.8%	64.1%	100.0%
NHS Lanarkshire	15.0%	30.0%	55.0%	100.0%
NHS Lothian	13.4%	16.4%	70.1%	100.0%
NHS Tayside	23.8%	4.8%	71.4%	100.0%
All Other Scottish Men	27.9%	18.0%	54.1%	100.0%
Total	19.9%	21.0%	59.1%	100.0%

#### 6. Sexual identity(Q9)

% within NHS Boards (Scotland)

	Sexual identity (Q9)				Total
	Gay	Bisexual	I don't usually use a term	Any other term	
NHS Grampian	81.4%	11.6%	7.0%		100.0%
NHS Greater Glasgow	78.1%	12.5%	7.8%	1.6%	100.0%
NHS Lanarkshire	75.0%	15.0%	10.0%		100.0%
NHS Lothian	89.4%	7.6%	3.0%		100.0%
NHS Tayside	71.4%	4.8%	19.0%	4.8%	100.0%
All Other Scottish Men	80.3%	16.4%	3.3%		100.0%
Total	81.1%	11.6%	6.5%	.7%	100.0%

#### 7. Trans male status (Q1)

% within NHS Boards (Scotland)

	Trans male status (Q1)		Total
	No	Yes	
NHS Grampian	100.0%		100.0%
NHS Greater Glasgow	100.0%		100.0%
NHS Lanarkshire	95.0%	5.0%	100.0%
NHS Lothian	100.0%		100.0%
NHS Tayside	95.0%	5.0%	100.0%
All Other Scottish Men	98.4%	1.6%	100.0%
Total	98.9%	1.1%	100.0%

## 8. Gender of sexual partners in the last year (Q23)

% within NHS Boards (Scotland)

	Gender of sexual partners in the last year (Q23)				Total
	No one	Women only	Men only	Both men and women	
NHS Grampian	7.0%		81.4%	11.6%	100.0%
NHS Greater Glasgow	4.7%	3.1%	85.9%	6.3%	100.0%
NHS Lanarkshire			85.0%	15.0%	100.0%
NHS Lothian	1.5%		92.5%	6.0%	100.0%
NHS Tayside			85.7%	14.3%	100.0%
All Other Scottish Men	8.2%		82.0%	9.8%	100.0%
Total	4.3%	.7%	85.9%	9.1%	100.0%

## 9. Marriage / Civil partnership status (Q16)

% within NHS Boards (Scotland)

	Marriage / Civil partnership status (Q16)			Total
	In a civil partnership with a man	In a marriage with a woman	Neither of these	
NHS Grampian		2.3%	97.7%	100.0%
NHS Greater Glasgow	7.8%	1.6%	90.6%	100.0%
NHS Lanarkshire	10.0%	5.0%	85.0%	100.0%
NHS Lothian	9.0%	4.5%	86.6%	100.0%
NHS Tayside	9.5%		90.5%	100.0%
All Other Scottish Men	4.9%	8.2%	86.9%	100.0%
Total	6.5%	4.0%	89.5%	100.0%

## 10. Sero-discordancy with male regular partner (Q11 & Q13)

% within NHS Boards (Scotland)

	Sero-discordancy with male regular partner (Q11 & Q13)				Total
	single	concordant regular	unknown regular	discordant regular	
NHS Grampian	46.5%	39.5%	14.0%		100.0%
NHS Greater Glasgow	46.9%	32.8%	15.6%	4.7%	100.0%
NHS Lanarkshire	55.0%	35.0%	10.0%		100.0%
NHS Lothian	36.9%	46.2%	16.9%		100.0%
NHS Tayside	35.0%	50.0%	10.0%	5.0%	100.0%
All Other Scottish Men	49.2%	31.1%	13.1%	6.6%	100.0%
Total	44.7%	38.1%	14.3%	2.9%	100.0%

## 11. Sexuality disclosure (outness to family, friends & workmates) score average (Q10)

Sexuality disclosure (outness) score average (Q10)

NHS Boards (Scotland)	Median	Mean	Minimum	Maximum	Std. Deviation
NHS Grampian	8.0000	7.9286	.00	12.00	4.12247
NHS Greater Glasgow	10.0000	8.6290	.00	12.00	4.02139
NHS Lanarkshire	3.0000	4.3684	.00	12.00	4.52414
NHS Lothian	10.0000	8.2576	.00	12.00	4.22196
NHS Tayside	8.0000	6.7000	.00	12.00	4.87852
All Other Scottish Men	8.0000	7.1311	.00	12.00	4.96479
Total	9.0000	7.6481	.00	12.00	4.50839

## 12. Living arrangements (Q14)

% within NHS Boards (Scotland)

	Living arrangements (Q14)			Total
	Live alone	Live with male partner	Live with others (not male partner)	
NHS Grampian	34.9%	18.6%	46.5%	100.0%
NHS Greater Glasgow	39.1%	25.0%	35.9%	100.0%
NHS Lanarkshire	50.0%	20.0%	30.0%	100.0%
NHS Lothian	40.9%	24.2%	34.8%	100.0%
NHS Tayside	50.0%	10.0%	40.0%	100.0%
All Other Scottish Men	31.1%	27.9%	41.0%	100.0%
Total	38.7%	23.0%	38.3%	100.0%

## HIV INFECTION (AND TESTING INTERVENTION PERFORMANCE)

### 13. HIV testing history (Q17 & Q18)

% within NHS Boards (Scotland)

	HIV test history (Q17 & Q18)				Total
	Never tested	Tested negative in last year	Tested negative over a year ago	Tested positive	
NHS Grampian	51.2%	30.2%	14.0%	4.7%	100.0%
NHS Greater Glasgow	32.8%	37.5%	23.4%	6.3%	100.0%
NHS Lanarkshire	45.0%	25.0%	20.0%	10.0%	100.0%
NHS Lothian	27.3%	45.5%	19.7%	7.6%	100.0%
NHS Tayside	38.1%	28.6%	33.3%		100.0%
All Other Scottish Men	43.3%	38.3%	16.7%	1.7%	100.0%
Total	38.0%	36.9%	20.1%	5.1%	100.0%

### 14. Self rating of HIV transmission probability amongst homosexually active men in the last year(Q17 & Q42)

% within NHS Boards (Scotland)

	Self rating of HIV transmission probability (Q17 & Q42) (Homosexually active men in the last year)					Total
	Very likely	Quite likely	Not sure	Quite unlikely	Very unlikely	
NHS Grampian	2.6%	5.1%	12.8%	15.4%	64.1%	100.0%
NHS Greater Glasgow	3.4%	1.7%	19.0%	17.2%	58.6%	100.0%
NHS Lanarkshire	5.0%		5.0%	30.0%	60.0%	100.0%
NHS Lothian		1.5%	12.1%	21.2%	65.2%	100.0%
NHS Tayside			19.0%	19.0%	61.9%	100.0%
All Other Scottish Men		1.8%	20.0%	32.7%	45.5%	100.0%
Total	1.5%	1.9%	15.4%	22.4%	58.7%	100.0%

## RISK BEHAVIOURS

### 15. Number of male sexual partners in the last year (Q24)

% within NHS Boards (Scotland)

	Number of male sexual partners in the last year (Q24)						Total
	None	One	2,3 or 4	5 to 12	13 to 29	30 or more	
NHS Grampian	7.0%	11.6%	44.2%	23.3%	7.0%	7.0%	100.0%
NHS Greater Glasgow	7.8%	17.2%	23.4%	31.3%	10.9%	9.4%	100.0%
NHS Lanarkshire		15.0%	35.0%	40.0%	10.0%		100.0%
NHS Lothian	1.5%	14.9%	31.3%	25.4%	16.4%	10.4%	100.0%
NHS Tayside		14.3%	42.9%	42.9%			100.0%
All Other Scottish Men	8.2%	16.4%	36.1%	18.0%	13.1%	8.2%	100.0%
Total	5.1%	15.2%	33.7%	27.2%	11.2%	7.6%	100.0%

### 16. Number of male unprotected anal intercourse partners amongst homosexually active men in the last year (Q26 & Q23)

% within NHS Boards (Scotland)

	Number of male unprotected anal intercourse partners amongst homosexually active men (Q26 & Q23)					Total
	none	one	two	three or four	five or more	
NHS Grampian	30.0%	30.0%	15.0%	10.0%	15.0%	100.0%
NHS Greater Glasgow	45.8%	28.8%	13.6%	8.5%	3.4%	100.0%
NHS Lanarkshire	55.0%	25.0%	10.0%	10.0%		100.0%
NHS Lothian	42.4%	37.9%	6.1%	12.1%	1.5%	100.0%
NHS Tayside	52.4%	23.8%	19.0%	4.8%		100.0%
All Other Scottish Men	50.0%	30.4%	5.4%	10.7%	3.6%	100.0%
Total	44.7%	30.9%	10.3%	9.9%	4.2%	100.0%

### 17. Use of Nitrite inhalants (poppers) (Q44 & Q45 & Q46 & Q47)

% within NHS Boards (Scotland)

	Use of Nitrite inhalants (poppers) (Q44 & Q45 & Q46 & Q47)					Total
	No poppers	Use but not during RAI	Use during RAI but not URAI	Use during URAI but not with unknown / discordant partner	Use during URAI with an unknown / discordant partner	
NHS Grampian	58.1%	16.3%	7.0%	9.3%	9.3%	100.0%
NHS Greater Glasgow	50.8%	12.7%	17.5%	9.5%	9.5%	100.0%
NHS Lanarkshire	55.0%	25.0%	5.0%	5.0%	10.0%	100.0%
NHS Lothian	58.2%	7.5%	13.4%	9.0%	11.9%	100.0%
NHS Tayside	81.0%	14.3%	4.8%			100.0%
All Other Scottish Men	56.9%	17.2%	17.2%		8.6%	100.0%
Total	57.7%	14.0%	12.9%	6.3%	9.2%	100.0%

### 18. Use of anabolic steroids (Q49)

% within NHS Boards (Scotland)

	Use of anabolic steroids (Q49)				Total
	Yes, I've taken them in the last month	Yes, I've taken them in the last 12 months	Yes, I've taken them but NOT in the last 12 months	No, I have never taken anabolic steroids	
NHS Grampian	2.3%	2.3%	4.7%	90.7%	100.0%
NHS Greater Glasgow	1.6%	1.6%		96.9%	100.0%
NHS Lanarkshire	5.0%		5.0%	90.0%	100.0%
NHS Lothian	1.5%	1.5%	3.0%	94.0%	100.0%
NHS Tayside				100.0%	100.0%
All Other Scottish Men			1.7%	98.3%	100.0%
Total	1.5%	1.1%	2.2%	95.3%	100.0%



## PREVENTION NEEDS

### 19. Sexual behavioural intention on partner's positive disclosure (Q43 & Q17) (not tested positive)

% within NHS Boards (Scotland)

	Sexual behavioural intention on partners positive disclosure (Q43 & Q17) (not tested positive)				Total
	Not want to have sex with him	Still want to have sex with him but be extra careful	Have the kind of sex you would have had anyway	Other	
NHS Grampian	42.5%	47.5%	5.0%	5.0%	100.0%
NHS Greater Glasgow	53.3%	33.3%	11.7%	1.7%	100.0%
NHS Lanarkshire	66.7%	27.8%		5.6%	100.0%
NHS Lothian	59.7%	33.9%	4.8%	1.6%	100.0%
NHS Tayside	42.9%	47.6%		9.5%	100.0%
All Other Scottish Men	64.9%	31.6%	1.8%	1.8%	100.0%
Total	55.8%	36.0%	5.0%	3.1%	100.0%

### 20. Knowledge that poppers increase transmission probability (Q48)

% within NHS Boards (Scotland)

	Knowledge that poppers increase transmission probability (Q48)				Total
	I knew this already	I didn't know this already	I wasn't sure about this	I don't understand this	
NHS Grampian	51.2%	37.2%	9.3%	2.3%	100.0%
NHS Greater Glasgow	49.2%	36.5%	11.1%	3.2%	100.0%
NHS Lanarkshire	40.0%	45.0%	5.0%	10.0%	100.0%
NHS Lothian	47.8%	40.3%	7.5%	4.5%	100.0%
NHS Tayside	28.6%	52.4%	14.3%	4.8%	100.0%
All Other Scottish Men	32.8%	43.1%	15.5%	8.6%	100.0%
Total	43.4%	40.8%	10.7%	5.1%	100.0%

### 21. Knowledge that HIV, Hep B & C may be transmitted from shared injecting equipment when using anabolic steroids (Q52a)

% within NHS Boards (Scotland)

	Knowledge that HIV, Hep B & C may be transmitted from shared injecting equipment when using anabolic steroids (Q52a)				Total
	I knew this already	I didn't know this already	I wasn't sure about this	I don't understand this	
NHS Grampian	86.0%	7.0%	4.7%	2.3%	100.0%
NHS Greater Glasgow	77.8%	19.0%		3.2%	100.0%
NHS Lanarkshire	85.0%	15.0%			100.0%
NHS Lothian	90.8%	7.7%		1.5%	100.0%
NHS Tayside	85.7%	9.5%	4.8%		100.0%
All Other Scottish Men	80.7%	12.3%	5.3%	1.8%	100.0%
Total	84.0%	11.9%	2.2%	1.9%	100.0%

## 22. Knowledge that anabolic steroid use is linked to heart disease (Q52b)

% within NHS Boards (Scotland)

	Knowledge that anabolic steroid use is linked to heart disease (Q52b)				Total
	I knew this already	I didn't know this already	I wasn't sure about this	I don't understand this	
NHS Grampian	65.1%	25.6%	7.0%	2.3%	100.0%
NHS Greater Glasgow	62.5%	25.0%	9.4%	3.1%	100.0%
NHS Lanarkshire	75.0%	25.0%			100.0%
NHS Lothian	67.7%	26.2%	6.2%		100.0%
NHS Tayside	47.6%	38.1%	14.3%		100.0%
All Other Scottish Men	42.1%	45.6%	10.5%	1.8%	100.0%
Total	59.6%	30.7%	8.1%	1.5%	100.0%

## 23. Knowledge that concurrent stimulant and anabolic steroid use increases heart attack risk (q52c)

% within NHS Boards (Scotland)

	Knowledge that concurrent stimulant and anabolic steroid use increases heart attack risk (q52c)				Total
	I knew this already	I didn't know this already	I wasn't sure about this	I don't understand this	
NHS Grampian	65.1%	23.3%	9.3%	2.3%	100.0%
NHS Greater Glasgow	65.6%	23.4%	9.4%	1.6%	100.0%
NHS Lanarkshire	70.0%	15.0%	15.0%		100.0%
NHS Lothian	68.3%	22.2%	6.3%	3.2%	100.0%
NHS Tayside	76.2%	19.0%	4.8%		100.0%
All Other Scottish Men	61.4%	28.1%	8.8%	1.8%	100.0%
Total	66.4%	23.1%	8.6%	1.9%	100.0%

## 24. Knowledge that non-prescribed anabolic steroids dosage may vary from that labelled (Q52d)

% within NHS Boards (Scotland)

	Knowledge that non-prescribed anabolic steroids dosage may vary from that labeled (Q52d)				Total
	I knew this already	I didn't know this already	I wasn't sure about this	I don't understand this	
NHS Grampian	55.8%	32.6%	9.3%	2.3%	100.0%
NHS Greater Glasgow	62.5%	23.4%	12.5%	1.6%	100.0%
NHS Lanarkshire	50.0%	25.0%	20.0%	5.0%	100.0%
NHS Lothian	66.2%	26.2%	6.2%	1.5%	100.0%
NHS Tayside	47.6%	42.9%	9.5%		100.0%
All Other Scottish Men	42.1%	40.4%	15.8%	1.8%	100.0%
Total	55.9%	30.7%	11.5%	1.9%	100.0%