

Additional Table S1: Measured and reported data for calculation of survey-surveillance discrepancies and MSM population size in 38 countries of Europe

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	country code	proportion of households with Internet access	Nstu (sample size)	HIVstu (diagnosed HIV+ in 2009)	ECDC reported number of HIV diagnoses among males in 2009	ECDC reported number of HIV diagnoses among MSM in 2009	HIVpop Updated national surveillance data on HIV diagnosed among MSM in 2009*	HIVpop required to achieve at least 1% or at most 3% of MSM at given SSD	SSD calculated by SSD=1.67* (household internet access) ^{-0.6}	Npop calculated with SSD	percent of the adult male population represented by Npop (=M)	Npop with truncation for outliers <1% and >3% (suggested "best" estimate)	EMIS participants diagnosed in 2009/ reported number of diagnosed MSM in 2009	EMIS participants diagnosed in 2009/ adjusted number of diagnosed MSM in 2009	EMIS participation rates (number of participants per 10,000 adult males)
1	AT	0.69	4,112	30	n.a.	n.a.	248		2.09	70985	2.51	70985		0.12	14.53
2	(BA)	0.13	150	0.1	6	3	3		5.79	26044	1.68	26044	0.03	0.03	0.97
3	BE	0.64	4,000	29	749	373	490	370	2.19	148081	4.18	106336	0.08	0.06	11.28
4	BG	0.25	1,045	7	133	28	28	52	3.81	15923	0.60	26341	0.25	0.25	3.97
5	BY	0.16	368	2	563	10	10	40	5.09	9368	0.29	31836	0.20	0.20	1.16
6	CH	0.79	5,045	39	472	249	282		1.93	70229	2.69	70229	0.16	0.14	19.35
7	(CY)	0.40	267	1	26	9	9		2.89	6954	2.29	6954	0.11	0.11	8.81
8	CZ	0.46	2,437	15	130	106	107		2.66	46321	1.24	46321	0.14	0.14	6.54
9	DE	0.75	54,774	365	2404	1646	2200		1.99	655740	2.41	655740	0.22	0.17	20.17
10	DK	0.82	1,749	4	179	108	108		1.88	88900	4.87	54723	0.04	0.04	9.59
11	EE	0.58	590	1	243	0	0	7	2.31	0	0.00	9195			12.93
12	ES	0.51	13,136	136	2326	1217	1217		2.50	294028	1.86	294028	0.11	0.11	8.33
13	FI	0.72	2,028	2	110	44	48		2.03	98663	5.57	53118	0.05	0.04	11.45
14	FR	0.62	11,197	75	3566	1363	2480	2000	2.22	821326	3.93	626948	0.06	0.03	5.36
15	GR	0.31	2,964	34	484	266	350		3.37	102888	2.72	102888	0.13	0.10	7.83
16	(HR)	0.45	523	2	48	42	42		2.69	29497	1.95	29497	0.05	0.05	3.46
17	HU	0.48	2,069	12	107	87	120		2.58	53404	1.55	53404	0.14	0.10	5.99
18	IE	0.63	2,196	14	258	138	138		2.20	47697	3.08	46488	0.10	0.10	14.17
19	IT	0.47	15,915	120	1906	776	1030		2.63	359315	1.81	359315	0.15	0.12	8.04
20	LT	0.51	591	1	131	9	12		2.50	17760	1.55	17760	0.11	0.08	5.15
21	(LU)	0.80	279	7	37	23	23		1.91	1749	1.05	1749	0.30	0.30	16.71
22	LV	0.53	701	2	170	15	15		2.45	12880	1.65	12880	0.13	0.13	9.00
23	MD	0.06	117	0.8	400	12	12	15	9.03	15853	1.32	15853	0.07	0.07	0.97
24	MK	0.29	118	1	6	3	3		3.48	1232	0.17	7390	0.33	0.33	1.60
25	(MT)	0.59	116	0.3	10	4	4		2.29	3545	2.49	3545	0.08	0.08	8.15
26	NL	0.86	3,810	47	930	725	750		1.83	111072	2.00	166872	0.06	0.06	6.85
27	NO	0.84	2,100	6	183	87	87		1.85	56459	3.57	47483	0.07	0.07	13.27
28	PL	0.48	2,776	37	729	72	345	740	2.61	67482	0.50	134981	0.51	0.11	2.06
29	PT	0.46	5,193	40	1080	308	316		2.66	109171	3.05	107328	0.13	0.13	14.52
30	RO	0.30	2,338	19	87	7	7	200	3.41	2939	0.04	74916	2.71	2.71	3.12
31	RS	0.28	1,108	9	121	83	83		3.62	36944	1.62	36944	0.11	0.11	4.84
32	RU	0.30	5,055	61	34500	349	854	1780	3.44	243384	0.53	461264	0.17	0.07	1.10
33	SE	0.84	3,149	11	263	115	124		1.85	65632	2.16	65632	0.10	0.09	10.37
34	SI	0.59	982	2	40	29	35		2.29	39427	5.48	21591	0.07	0.06	8.20
35	SK	0.58	590	3	48	35	41		2.31	18614	0.96	19366	0.09	0.07	5.07
36	TR	0.25	1,813	2	341	2	2	80	3.80	6890	0.03	232935	1.00	1.00	0.78
37	UA	0.10	1,719	19	9168	94	94	330	6.53	55547	0.36	154415	0.20	0.20	1.11
38	UK	0.71	17,739	157	4412	2571	3000	2700	2.05	694617	3.40	613658	0.06	0.05	8.67

Legend

	questionable or unreliable values
	imputed values
	possibly unreliable value
	value likely too high
	value likely too low

$$SSD = \frac{HIV_{svy}}{HIV_{pop}} \bullet \frac{N_{pop}}{N_{svy}}$$

* adjusted for risk re-distribution of cases with unknown transmission risk