

The European MSM Internet Survey (EMIS) 2010.

Individual level and country level predictors for recent HIV-testing and late HIV diagnoses among MSM in Europe – aspects to consider when planning interventions to increase HIV-testing

Maastricht University Sigma

Axel J. Schmidt¹, MD MPH

Ulrich Marcus Michele Breveglieri Percy Fernandez-Davila Laia Ferrer Cinta Folch Martiina Furegato Ford Hickson Harm Hospers David Reid Peter Weatherbourn

The EMIS Network

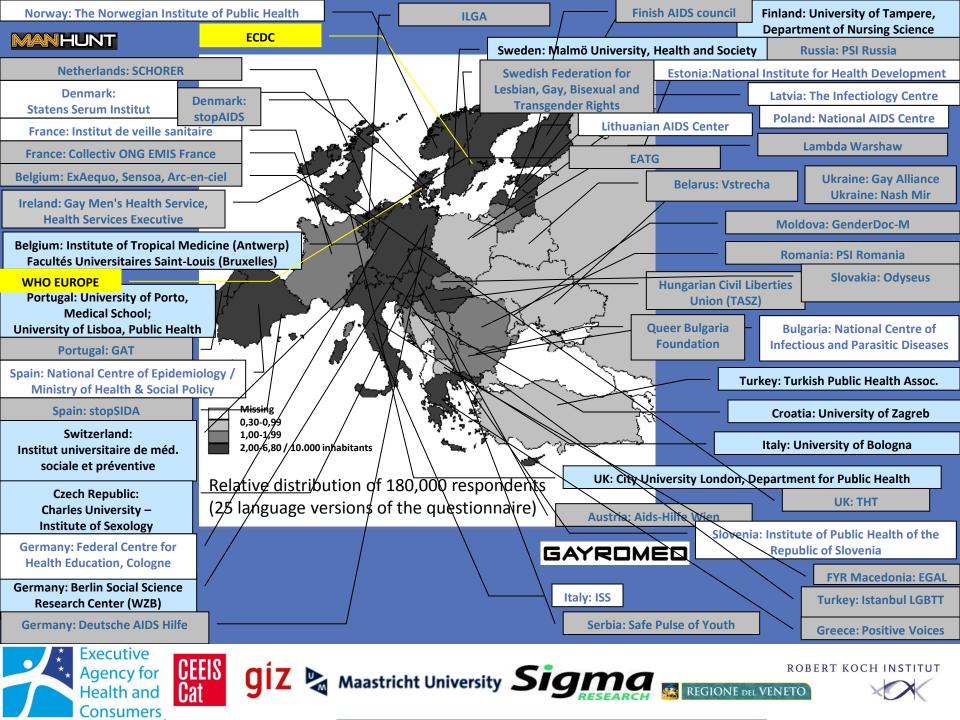
1 London School of Hygiene and Tropical Medicine, London, United Kingdom





ROBERT KOCH INSTITUT



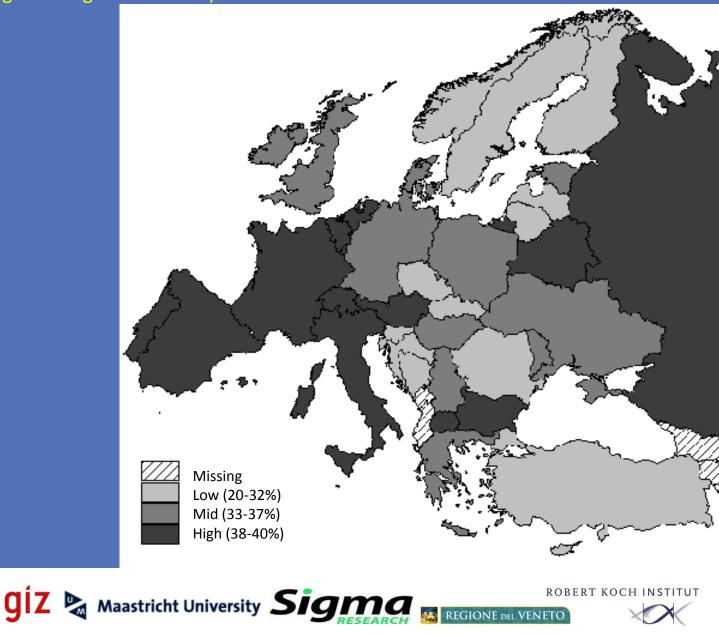


UNGASS 8: Tested for HIV in the last 12 months

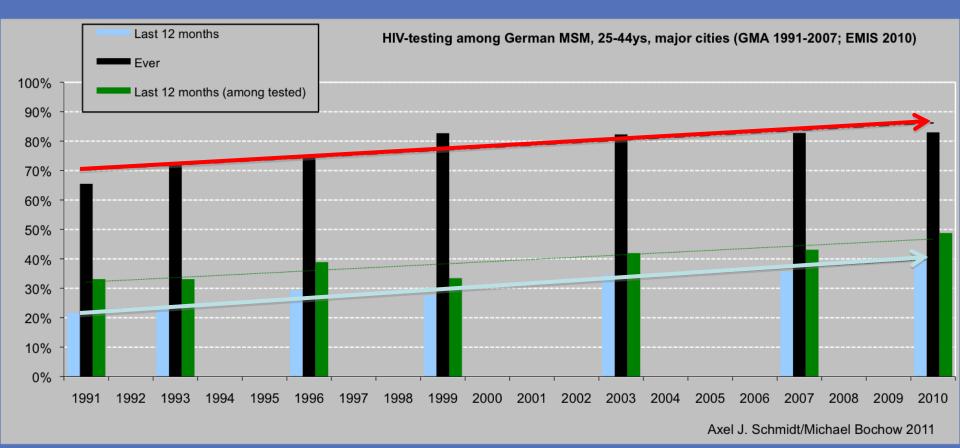
(among men without long-standing HIV infection)

Executive

Agency for Health and Consumers CEEIS Cat

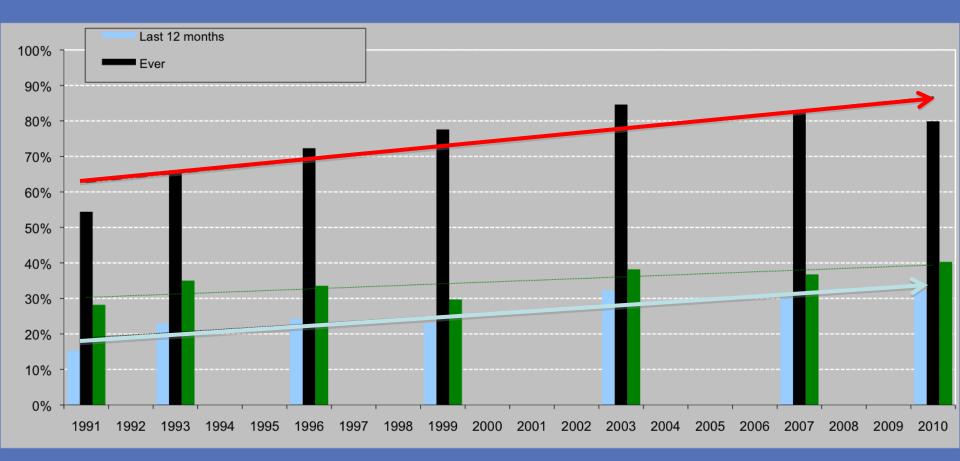


Trends in HIV-testing: GERMANY (stratified: major cities, 25-44 years)



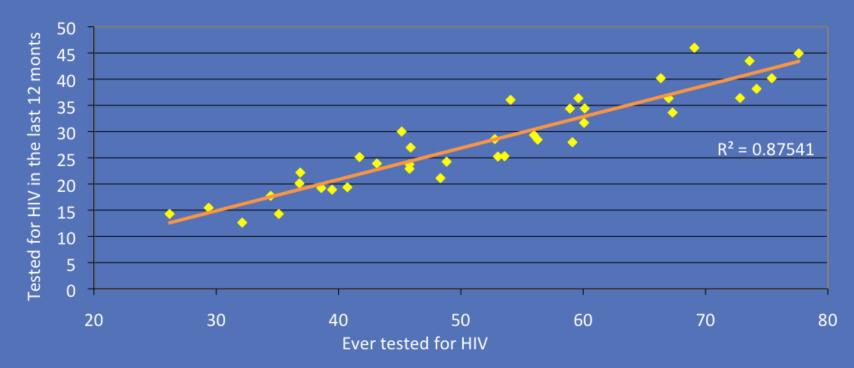


Trends in HIV-testing: GERMANY (stratified: major cities, 45-60 years)



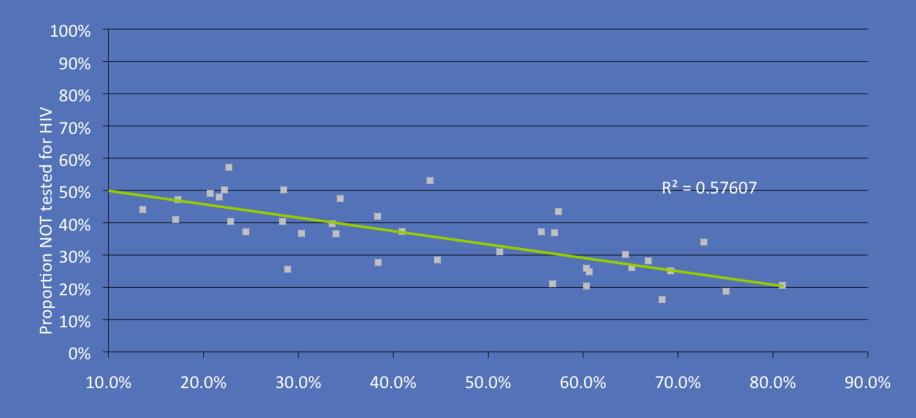


Country level association of ever and recent HIV-testing among MSM with ncUAI





Unmet prevention needs: More men 'out', more men tested \rightarrow social climate for MSM influences HIV-testing



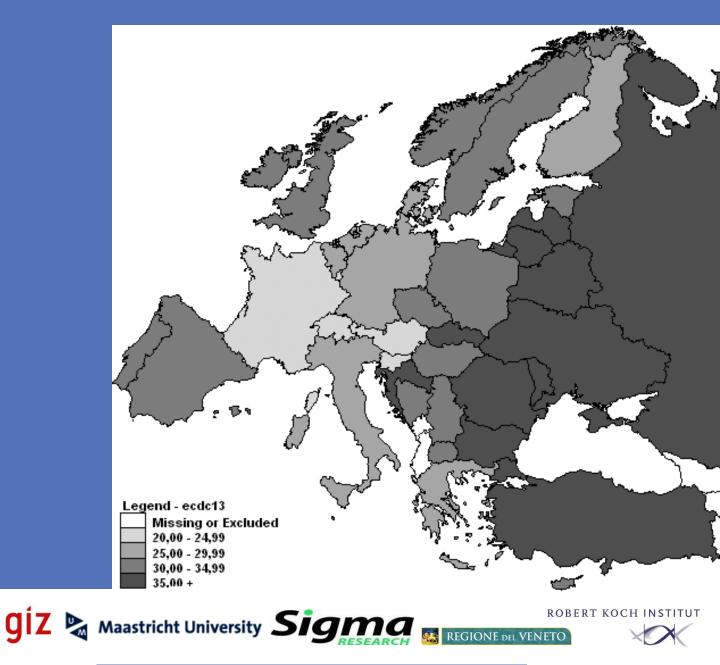
Proportion being 'out'



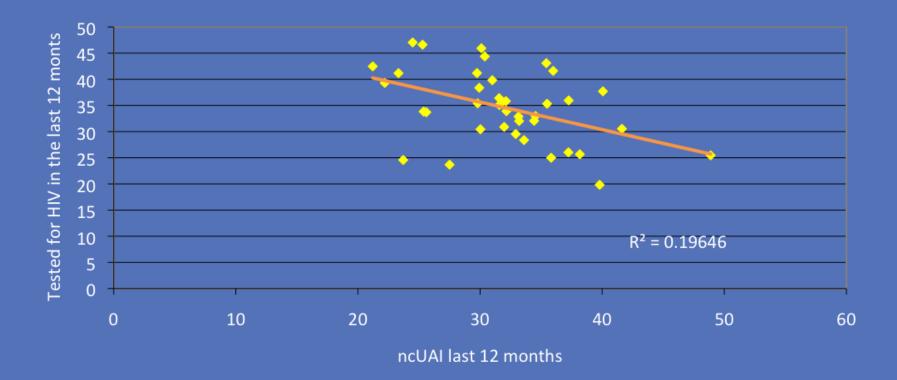
HIV transmission facilitators: non-concordant UAI (last 12 months)

Executive

Agency for Health and Consumers CEEIS Cat



Country level association of recent ncUAI and recent HIV-testing



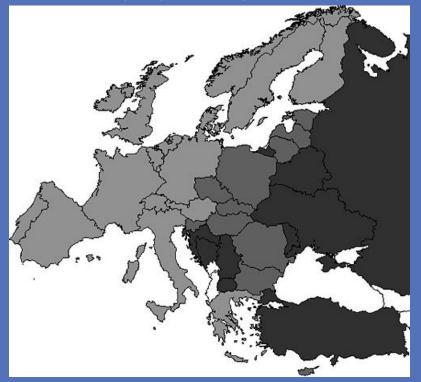
ncUAI = non-concordant unprotected anal intercourse, ie. with a partner of unknown or discordant HIV serostatus

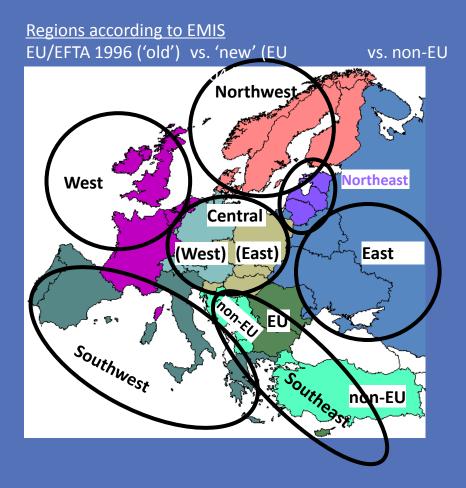


Grouping European countries

With the exception of counting Greece as a (South-)Western country, EMIS regions are based on the United Nations Group of Experts on Geographical Names, 2006.

Regions according to EU EU/EFTA 1996 ('old') vs. 'new' (EU 2004/07) vs. non-EU







Odds for HIV-testing in the last 12 months according to risk behaviour by European region

_	no ncUAI	ncUAI	OR	95%-Cl
Northwest	33.4%	30.4%	0.87	0.79-0.97
West	43.9%	38.6%	0.80	0.76-0.84
Central-West	39.1%	29.1%	0.64	0.61-0.67
Southwest	47.2%	36.2%	0.63	0.60-0.67
Southeast (non-EU)	35.7%	21.6%	0.50	0.2-0.59
East	48.8%	31.2%	0.48	0.43-0.53
Southeast (EU)	43.7%	26.0%	0.45	0.39-0.53
Northeast	34.6%	18.5%	0.43	0.34-0.55
Central-East	39.8%	21.7%	0.42	0.38-0.47

ncUAI = non-concordant unprotected anal intercourse, ie. with a partner of unknown or discordant HIV serostatus







Multivariable regression on recent HIV-testing, individual level, g for recruitment and country of residence (N=139,735)

	%	p adj. OR		Lower Upper	
Age 25-39	48.9	Ref.	1		
<25	23.3	<0.001	0.93	0.90	0.95
40+	27.8	<0.001	0.71	0.69	0.73
<u>City size</u> >500,000	45.6	<0.001	1.18	1.16	1.21
New steady partner	11.8	<0.001	1.73	1.67	1.79
# Sex partners in the last 12 months None	8.8	Ref.	1		
1	19.0	0.285	1.04	0.97	1.11
2-5	30.1	<0.001	1.40	1.31	1.50
6-10	16.0	<0.001	1.89	1.76	2.02
>10	26.0	<0.001	2.50	2.34	2.67
Being 'out' to most or all significant others	57.6	<0.001	1.42	1.38	1.46
Non-gay identity	23.8	<0.001	0.82	0.79	0.85
Free/affordable HIV-testing		<0.001	2.49	2.37	2.60
UAI None	64.7	Ref.	1		
with non-steady partners perceived as concordant		<0.001	1.45	1.38	1.52
with any partner of unknown or discordant status		<0.001	0.55	0.54	0.57
Knowing that "HIV infection can be controlled with medicines, so that its impact on health is much less."		0.003	1.07	1.02	1.12



CEEIS Cat

ROBERT KOCH INSTITUT



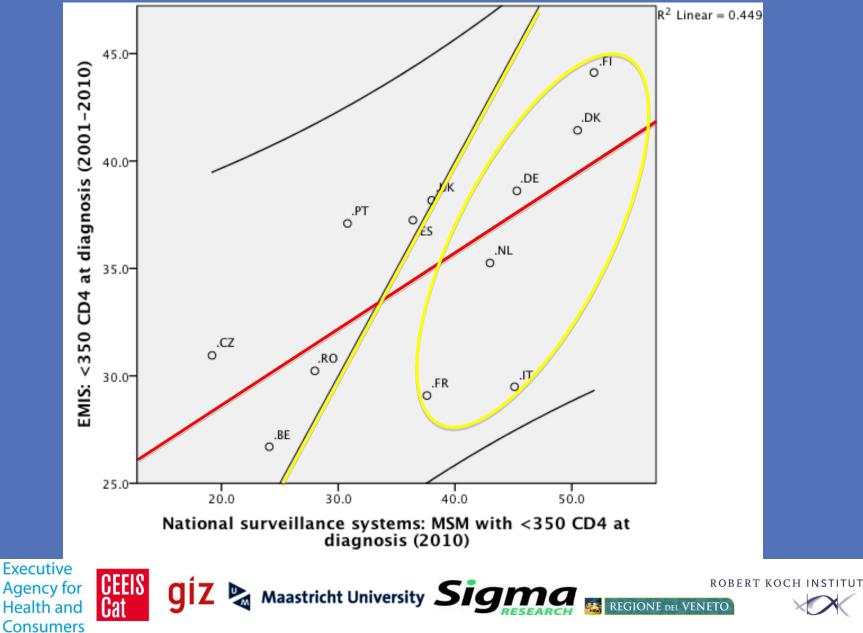
Late presentation CD4 < 350

	9		p adj. OR		Lower Upper	
Age	20-29	21.1	Ref.	1		
	30-39	38.0	0.004	1.31	1.09	1.57
	40-49	32.6	<0.001	1.71	1.41	2.06
	50+	8.3	<0.001	1.97	1.50	2.58
Education	ISCED 1-4	48.1	0.043	1.15	1.01	1.31
Not being 'out' to most or all significant others		18.1	0.013	1.36	1.02	1.41

Multivariable logistic regression analysis, adjusting for age, educational attainment, outness, sexual identity, country of residence, country of birth, size of settlement, perceived loneliness, experienced HIV stigma



Late presentation



Late presentation

It is often believed that a low proportion of late presenters is a good thing, and that a high proportion of late presenters is always bad.

In a situation with increasing HIV incidence, the proportion of late presenters will consequently fall.

 In a situation with super-effective prevention activities, where everybody uses condoms all the time and close to zero HIV is transmitted, the proportion of late presenters will consequently increase.

 Therefore, comparing those proportions across countries should be done carefully, and always take into account the dynamic of the epidemic.



Summary

Men with HIV transmission risk are less likely to test for HIV.

- Men should be encouraged to check and mutually disclose their HIV status with their steady partners before engaging in condomfree anal sex.
- High levels of homophobia and consequent 'closeting' of homosexuality may defer HIV-testing and thus render HIV test promotion less effective
- EMIS findings corroborate results of other studies that for some MSM, being identified as such might be a key barrier to testing for HIV after exposure.
- Targeting MSM with a bisexual identity or who hide their sexual orientation remains a challenge for campaigns promoting HIVtesting.



Thank you for your attention!

More information @ www.emis-project.eu

a.j.schmidt@emis-project.eu

Study coordination

Axel J. Schmidt (London School of Hygiene and Tropical Medicine, UK)

Associated Scientists

Rigmor Berg (Norwegian Centre for the Health Sciences, NO) Michele Breveglieri (Regional Centre for Health Promotion , Verona, IT) Percy Fernández-Dávila (Centre for Epidemiological Studies on HIV/AIDS in Catalonia, ES) Laia Ferrer (Centre for Epidemiological Studies on HIV/AIDS in Catalonia, ES) Cinta Folch (Centre for Epidemiological Studies on HIV/AIDS in Catalonia, ES) Martina Furegato (Regional Centre for Health Promotion , Verona, IT) Ford Hickson (London School of Hygiene and Tropical Medicine, UK) Harm J. Hospers (Maastricht University, NL) Ulrich Marcus (Robert Koch Institute, Berlin, DE) David Reid (London School of Hygiene and Tropical Medicine, UK) Todd Sekuler (Social Science Research Center Berlin, DE) Peter Weatherburn (London School of Hygiene and Tropical Medicine, UK)

EMIS Collaborating Partners: AT: Aids-Hilfe Wien; BE: Institute of Tropical Medicine, Facultés Universitaires Saint-Louis, Ex Aequo, Sensoa, Arc-en-ciel; BG: National Centre of Infectious and Parasitic Diseases, Queer Bulgaria Foundation; BY: Bcrpeva; CH: Institut universitaire de médecine sociale et préventive, Aids-Hilfe Schweiz; CY: Research Unit in Behaviour & Social Issues; CZ: Charles University (Institute of Sexology), Ceska spolecnost AIDS pomoc; DE: Berlin Social Science Research Center (WZB), Deutsche AIDS-Hilfe; Federal Centre for Health Education (BZgA); DK: Statens Serum Institut, Department of Epidemiology, stopaids; ES: National Centre of Epidemiology, stopsida, Ministry of Health and Social Politics; EE: National Institute for Health Development; FI: University of Tampere (Nursing Science), HIV-saatio/Aidstukikeskus; FR: Institut de veille sanitaire (InVS), AIDES, Act Up Paris, Sida Info Service, Le Kiosque, The Warning; GR: Positive Voice; HR: University of Zagreb (Humanities and Social Sciences); HU: Hungarian Civil Liberties Union (TASZ), Háttér; IE: Gay Men's Health Service, Health Services Executive; IT: University of Bologna, Arcigay, Instituto Superiore di Sanità; LT: Center for Communicable Diseases and AIDS; LV: The Infectiology Centre of Latvia; Mozaika; MD: GenderDoc-M; MK: Equality for Gays and Lesbians (EGAL); NL: schorer; NO: Norwegian Knowledge Centre for the Health Services, The Norwegian Institute of Public Health; PL: National AIDS Centre, Lambda Warszawa; PT: GAT Portugal, University of Porto (Medical School), Institute of Hygiene and Tropical Medicine; RO: PSI Romania RS: Safe Pulse of Youth; RU: PSI Russia, La Sky; SE: Malmö University, Riksforbundet for homosexuellas, bisexuellas och transpersoners rattigheter (RFSL); SI: National Institute of Public Health, Legebitra, ŠKUC-Magnus; SK: OZ Odyseus; TR: Turkish Public Health Association, KAOS-GL, Istanbul LGBTT, Siyah Pembe Ucgen Izmir; UA: Gay Alliance, Nash Mir, LiGA Nikolaev; UK: City University, London, CHAPS (Terrence

Maastricht University Sigma





ROBERT KOCH INSTITUT

