



Chemsex, HIV testing and associated factors in gay, bisexual and other men who have sex with men and transgender people, among European community-based centres

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Chemsex:

- Use of drugs with the purpose of engaging in sexual relationships
 - Enhancing and prolonging sexual experience
 - Frequently used drugs: Mephedrone, Methamphetamine, GHB/GBL





Chemsex:

- Highly prevalent among GBMSM and transgender individuals
- Associated with HCV, syphilis, gonorrhoea
- Associated with practices related to HIV acquisition
- Associated with mental health problems

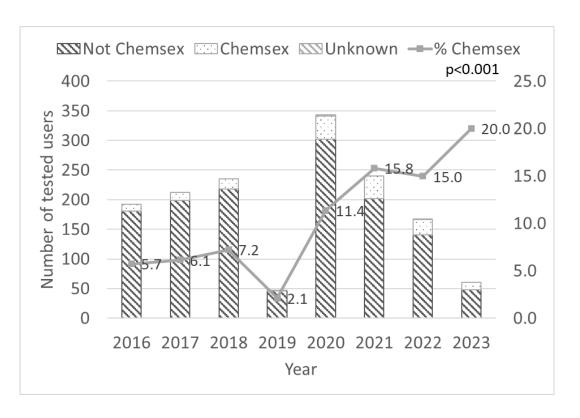
Tomkins, A., George, R., & Kliner, M. (2019). Sexualised drug taking among men who have sex with men: a systematic review. Perspectives in Public Health, 139(1), 23–33.

Alarcón-Gutiérrez, M., Palma Díaz, D., Forns, M.L., Fernández-López, L., García De Olalla, P. & Rius Gibert, C. (2023). Trends in sexual health of gay, bisexual, and other men who have sex with men, and transgender individuals: An apps-driven testing program for HIV and other STIs in Barcelona, Spain (2016-2023). Journal of Community Health (accepted manuscript).





Figure 1: Annual trends of chemsex practice in a rapid testing program through dating apps for GBMSM in Barcelona, Spain. 2016-2023

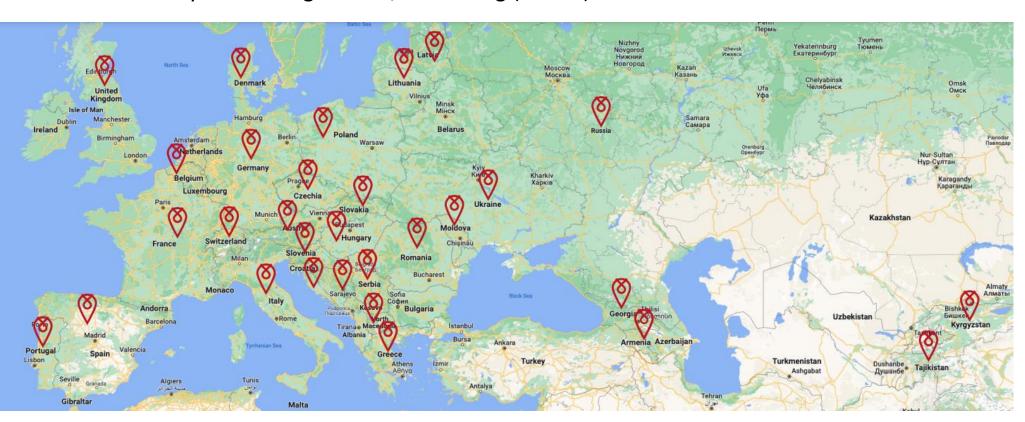


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The **COBATEST Network** connects organizations across Europe and Central Asia that provide community-based voluntary counselling and STI/HIV testing (CBVCT) services.



Coordinated by:





The network comprises 111 CBVCT members from 29 European and 2 Central Asian countries.





Objective

 To determine associated factors with chemsex practice among GBMSM and transgender population who attended community-based voluntary counselling and HIV/STI testing (CBVCT) centres in Europe



METHODS



Study	Cross-sectional
Ambit	31 COBATEST network centres
Study period	2019-2022
Population	Transgender and GBMSM users
Dependent variables	Chemsex practices
Analysis	Prevalence proportion Bivariate and multivariate logistic regression (aOR + CI95%) Totals and stratified by gender



RESULTS



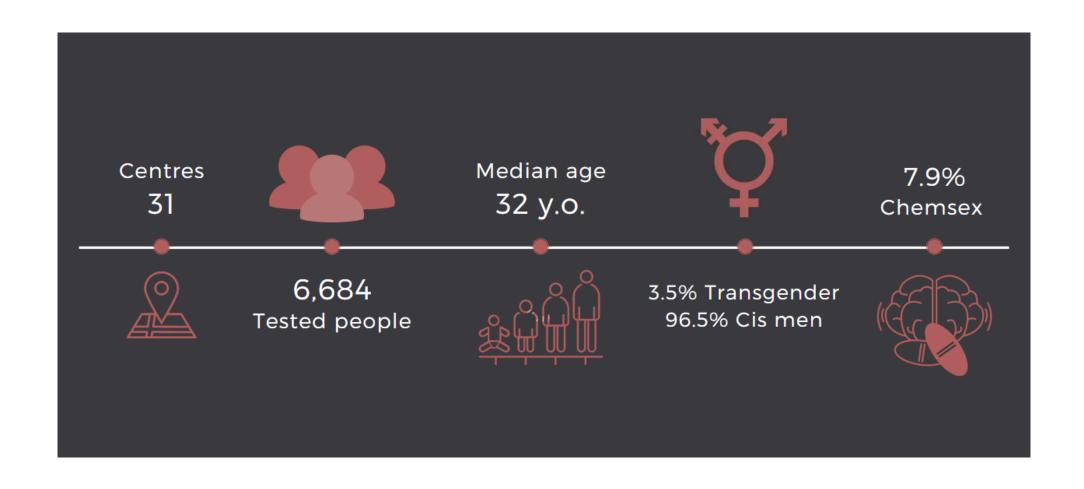




Table 1: Associated factors to chemsex practice among GBMSM and transgender users of 31 community-based centres from the COBATEST Network. Multivariate logistic regression.

RESULTS



		Total sample (n=6,684)		
		aOR	CI95%	p-value
Age		1.00	(0.99 - 1.01)	0.656
Gender				
	Male	1.90	(1.12 - 3.22)	0.017
Gender identity minorities		1 (reference	2)	
Migration situation				
	Yes	1.43	(1.14 - 1.80)	0.002
	No	1 (reference	2)	
Sexual work				
	Yes	4.99	(3.55 - 7.01)	<0.001
	No	1 (reference	2)	
Intravenous drugs use				
	Yes	13.02	(5.86 - 28.95)	<0.001
	No	1 (reference	2)	
Risk exposition for testing				
	Yes			
	No			
Ever tested for HIV				
	Yes	1.71	(1.19 - 2.45)	0.004
	No	1 (reference	2)	
Condom use last sexual interco				
	Yes	1 (reference		
	No	2.37	(1.92 - 2.93)	<0.001
Previous STI during last 12 mon			4	0.001
	Yes	1.86	(1.43 - 2.42)	<0.001
	No	1 (reference	2)	
Actual HIV test		2.22	(4.05. 4.46)	0.000
	sitive	2.28	(1.25 - 4.18)	0.008
Ne Ne	gative	1 (reference	2)	

aOR= adjusted odds ratio CI95%= confidence interval for 95%



RESULTS



Table 2: Associated factors to chemsex practice among GBMSM and transgender users of 31 community-based centres from the COBATEST Network. Stratified multivariate logistic regression.

	G	GBMSM (N=6,450)			Transgender (n=234)		
	aOR	Cl95%	p-value	aOR	CI95%	p-value	
Age	1.00	(0.99 - 1.01)	0.367	0.97	(0.93 - 1.01)	0.182	
Gender							
Male							
Gender identity minorities							
Migration situation							
Yes	1.51	(1.20 - 1.90)	<0.001	1.74	(0.62 - 4.86)	0.290	
No	1 (reference)			1 (reference)			
Sexual work							
Yes	5.85	(4.15 - 8.25)	<0.001				
No	1 (reference)						
Intravenous drugs use							
Yes	14.31	(6.24 - 32.81)	<0.001				
No	1 (reference)						
Risk exposition for testing							
Yes				1.92	(0.76 - 4.89)	0.169	
No				1 (reference)			
Ever tested for HIV							
Yes	1.80	(1.23 - 2.63)	0.002				
No	1 (reference)						
Condom use last sexual intercourse							
Yes	1 (reference)			1 (reference)			
No	2.31	(1.86 - 2.87)	<0.001	2.47	(1.06 - 5.74)	0.036	
Previous STI during last 12 months							
Yes	1.89	(1.44 - 2.48)	<0.001				
No	1 (reference)						
Actual HIV test			0.00=			0.046	
Positive	1.86	(0.91 - 3.81)	0.087	3.68	(1.03 - 13.21)	0.046	
Negative	1 (reference)	_	•	1 (reference)		•	

aOR= adjusted odds ratio CI95%= confidence interval for 95%



CONCLUSIONS



- Chemsex is a prevalent practice among GBMSM and transgender people
 - Different pattern between GBMSM and TG
 - TG with lack of other associated variables (stigma, violence, structural barriers)
- Associated with HIV positive testing



CONCLUSIONS



- Vulnerable subpopulations identified:
 - o Cis-GBMSM
 - Migrants
 - Sex work
 - People who inject drugs
- Specific opportunities identified :
 - Counselling during HIV/STI testing
 - Follow-up of STIs





Thank you!

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