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Predictors of drug type and sexualized use in men who have sex with men (MSM) and transgender people in France

Alain Léobon, PhD, & Eugénie Samson-Daoust, MSc

Background

Chemsex: Use of psychoactive drugs in a sexual context.

Recent mediatic attention

Healthcare
 professionals
 are helpless:
 "There is an
 explosion of
 chemsex in
 France" (Charente
 Libre)

«IL Y A UNE EXPLOSION DU CHEMSEX EN FRANCE»: LES PROFESSIONNELS DE SANTÉ DÉMUNIS FACE À CETTE PRATIQUE QUI ALLIE DROGUES ET SEXE À OUTRANCE



- Drugs involved: wide range of substances ≠
 poppers or cannabis (Léobon, Dussault, & Otis, 2018;
 Maxwell, Shahmanesh, & Gafos, 2019; Scholz-Hehn et al., 2022)
- Quantitative data is lacking in France

Objective

Investigate predictors of sexualized use of uncommon drugs by comparing 3 groups, in a sample of MSM and trans people.

Methods

Net Gay Barometer, 2018: 10,853 online French participants → 3,563 drug users (32.8%)

Common drugs: cannabis, poppers, Viagra • **Group 1**: Exclusive users of common drugs → n=1,796 (50.4%) [reference group]

Uncommon drugs:
 cocaine,
 amphetamines,
 MDMA,
methamphetamines,
 cathinones,
 GHB/GBL, opioids,
 etc.

Group 2: At least one uncommon drug in the past year, no sexual context → n=887 (24.3%)
 Group 3: At least one uncommon drug in the past year, in a sexual context at least once → n=880 (24.1%)

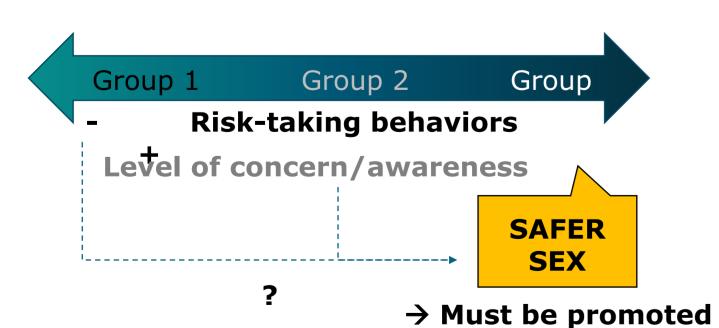
Results

Multivariate regression model (Table 1) explained 50,9% (Cox and Snell's R²) of variance between groups.

Controlling for sociodemographic variables:

- Professional status:
- Group 2 → + self-employed (aOR=1.69);
 Group 3 → retired (aOR=0.18) or full-
- time student (aOR=0.59)Residence in Paris region:
 - Group 2 & 3 → + Paris region (aOR=1.59-2.02)
- Residence area:
 - Group 3 \rightarrow suburban (aOR=0.68) or rural (aOR=0.46)
- Birth country:
- Group 3 → + born outside of France
 (aOR=1.84)
 Website of origin.
- Website of origin:
 Group 2 → general
 - Group 2 → general MSM dating websites (aOR=0.71)
- Gender identity:
 - Group 2 → + non-binary people (aOR=2.21);
 - Group 3 → + trans women (aOR=4.54)
- Sexual orientation:
- Group 2 → + other than gay or bisexual orientation (aOR=1.62)
- Group 3 → bisexual orientation (aOR=0.48)

Conclusions



References

https://doi.org/10.1177/00220426211040564

Léobon, A., Dussault, É., & Otis, J. (2018). «Chemsex » chez des hommes français ayant des relations sexuelles avec des hommes. Drogues, Santé et Société, 17(2), 53–75. https://doi.org/10.7202/1062116ar Maxwell, S., Shahmanesh, M., & Gafos, M. (2019). Chemsex behaviours among men who have sex with men: A systematic review of the literature. International Journal of Drug Policy, 63, 74–89. https://doi.org/10.1016/j.drugpo.2018.11.014 Scholz-Hehn, A. D., Milin, S., Schulte, B., Reimer, J., Buth, S., & Schäfer, I. (2022). Substance Use and Chemsex in MSM - A Latent Class Analysis. Journal of Drug Issues, 52(1), 83–96.

for everyone ←

Table 1. Multinomial logistic regression model of sexualized and non-sexualized context of uncommon drug use compared with

	Total (N=3563)	χ²	Group 1: Users of common drugs exclusively (N=1796)		outside of a sexual context (N=887)		Group 3: Users of uncommon drug in a sexual context (N=880)	
	Freq. or M (SD)	р	Freq. or M (SD)	aOR	Freq. or <i>M</i> (<i>SD</i>)	aOR (OE%CI)	Freq. or M (SD)	aOR (05%CI)
ly-drug use (2+ on the same occasion)	N=3563	<0.001	N=1796	1.000	N=887	(95%CI)	N=880	(95%CI)
Yes No	37.0% 63.0%		18.5% 81.5%		45.7% 54.3%	2.544 (2.016-3.211)***	66.0% 34.0%	4.144 (3.158-5.437)
diction concerns: Drug use	N=3552	<0.001	N=1794	1.000	N=886	1.000	N=872	1.000
Very concerned	3.1%		1.1%		4.0%	4.857 (2.177-10.836)***	6.5%	6.778 (2.855-16.095
Quite concerned	8.4%		4.0%		12.1%	3.753 (2.418-5.826)***	13.5%	2.693 (1.607-4.511)
Not very concerned Not concerned at all	13.5% 23.3%		8.6% 19.9%		18.7% 24.5%	2.498 (1.796-3.475)*** 1.550 (1.197-2.007)**	18.3% 28.9%	2.557 (1.704-3.838) 2.169 (1.580-2.977)
Did not experience this issue	51.7%		66.4%		40.7%	1.000	32.7%	1.000
alcoholic drinks on the same occasion Everyday or almost everyday	N=3561 2.1%	<0.001	N=1794 1.3%	1.000	N=887 2.6%	3.372 (1.440-7.897)**	N=880 3.1%	2.113 (0.778-5.74
Several times a week	15.5%		11.5%		23.0%	3.336 (2.129-5.227)***	16.1%	2.257 (1.347-3.781
Once a week	24.2%		21.0%		32.0%	2.533 (1.657-3.872)***	23.1%	2.288 (1.425-3.672
Once a month Less than once a month	23.6%		26.0%		20.9%	1.531 (0.998-2.346) 1.240 (0.808-1.903)	21.4%	1.914 (1.204-3.04 3
Never	21.8% 12.7%		25.5% 14.6%		14.3% 7.2%	1.240 (0.808-1.903)	21.8% 14.5%	1.343 (0.855-2.10
an frequency of mixed marginal sex practices	N=3265	<0.001	N=1581		N=815		N=869	
reeding, group sex, gangbang as a bottom)	4.02 (3.67)		3.21 (3.28)	1.000	2.69 (2.78)	0.940 (0.896-0.986)*	6.75 (3.67)	1.164 (1.106-1.225
th casual male partners rebacking in a drug use context at least 1x	N=3563	<0.001	N=1796	1.000	N=887		N=880	
Yes	22.9%		11.4%		13.1%	0.997 (0.683-1.453)	56.4%	3.642 (2.406-5.513
No	77.1%		88.6%		86.9%	1.000	43.6%	1.000
ected drugs	N=3563	<0.001	N=1796	1.000	N=887	2 402 (0 002 6 242)	N=880	10 244 /4 265 24 45
Yes No	4.7% 95.3%		0.6% 99.4%		1.8% 98.2%	2.483 (0.993-6.212) 1.000	16.1% 83.9%	10.214 (4.265-24.45) 1.000
xual health concerns: Risky sexual behaviors	N=3550	<0.001	N=1793	1.000	N=885		N=872	
Very concerned	5.8%		4.6%		6.8%	1.583 (1.006-2.489)*	7.3%	0.888 (0.500-1.57
Quite concerned	18.2%		17.2%		18.3%	1.203 (0.893-1.621)	20.0%	1.017 (0.694-1.49
Not very concerned Not concerned at all	13.2% 21.4%		10.1% 17.2%		17.6% 16.2%	2.411 (1.741-3.338)*** 1.243 (0.914-1.692)	14.9% 35.6%	1.550 (1.015-2.36 1.372 (0.960-1.95
Did not experience this issue	41.4%		50.9%		41.1%	1.000	22.2%	1.000
an frequency of hard marginal sex practices	N=3265	<0.001	N=1581	1.000	N=815		N=869	
sting, BDSM, urophilia, scatophilia) with casual le partners	2.05 (2.61)		1.54 (2.25)		1.28 (1.96)	0.940 (0.883-1.001)	3.70 (3.00)	1.132 (1.068-1.199
x in exchange for money, drugs, goods or	N-2564	<0.001	N_1705	1.000	NI_00C		N_000	
rvices	N=3561		N=1795		N=886		N=880	
Often Sometimes	2.6% 5.3%		1.6% 3.8%		1.1% 3.7%	1.130 (0.435-2.937) 1.853 (0.992-3.461)	6.1% 9.9%	4.021 (1.653-9.780 4.706 (2.445-9.059
Rarely	6.7%		5.3%		6.3%	1.853 (0.992-3.461) 1.693 (1.056-2.716)*	10.0%	1.994 (1.167-3.40
No	85.4%		89.3%		88.8%	1.000	74.0%	1.000
equency of exchanges on mobile dating plications	N=3563	<0.001	N=1796	1.000	N=887		N=880	
Many times a day	26.6%		23.1%		25.3%	1.210 (0.874-1.674)	35.1%	1.507 (1.002-2.26
Many times a week	27.8%		25.7%		27.6%	1.268 (0.933-1.723)	32.2%	2.220 (1.500-3.285
Many times a month Less than 1x/month or irregularly	9.9% 10.4%		10.5% 9.6%		9.0% 15.1%	0.836 (0.557-1.256) 1.505 (1.029-2.200) *	9.5% 7.5%	1.491 (0.882-2.52 2.159 (1.268-3.677
Does not use apps	25.3%		31.1%		23.0%	1.000	15.7%	1.000
ychosocial concerns: Accepting sexual	N=3552	<0.001	N=1794	1.000	N=886		N=872	
entation						0 570 (0 317 1 035)		0.260 (0.140.0.07)
Very concerned Quite concerned	3.2% 7.2%		4.2% 8.7%		2.9% 6.2%	0.570 (0.317-1.025) 0.533 (0.352-0.806) **	1.4% 5.3%	0.369 (0.140-0.97) 0.543 (0.315-0.93)
Not very concerned	6.8%		7.6%		7.4%	0.695 (0.461-1.049)	4.4%	0.551 (0.309-0.98
Not concerned at all	10.2%		11.5%		9.7%	0.592 (0.416-0.843)**	7.9%	0.656 (0.417-1.03
Did not experience this issue ndomless anal penetration with casual male	72.7%		68.1%	1.000	73.7%	1.000	81.1%	1.000
rtners	N=3563		N=1796		N=887		N=880	
Always Often	9.1% 15.3%		7.0% 10.2%		4.6% 9.2%	0.607 (0.350-1.053) 0.814 (0.518-1.280)	18.1% 31.8%	0.495 (0.262-0.93 1.080 (0.630-1.85
Sometimes	15.2%		13.5%		14.0%	0.765 (0.520-1.126)	19.8%	1.030 (0.030-1.85
Rarely	14.7%		14.8%		16.6%	0.784 (0.554-1.108)	12.5%	1.472 (0.932-2.32
Never or not applicable	45.7% N=3557	<0.001	54.5% N=1794		55.6% N=886	1.000	17.8% N=877	1.000
tal number of STDs (excluding HIV et HCV)	0.79 (1.95)	\0.001	0.43 (1.28)	1.000	0.70 (2.05)	1.146 (1.054-1.245)**	1.62 (2.63)	1.156 (1.063-1.256
veloping feelings, friendships or emotional	, ,	<0.001		1.000	Ì	· · · · · · · · · · · · · · · · · · ·		
ationships with 1+ partners in the context of	N=3563		N=1796		N=887		N=880	
id sex Very often or often	0.9%		0.7%		0.3%	0.476 (0.105-2.171)	1.8%	1.533 (0.461-5.09
Sometimes	1.9%		1.2%		1.1%	0.680 (0.249-1.855)	3.9%	1.568 (0.641-3.83
Rarely	2.7%		2.2%		1.5%	0.524 (0.234-1.175)	5.1%	0.342 (0.156-0.750
Never or not applicable gative impact of drug use	94.5% N=3563	<0.001	95.9% N=1796	1.000	97.1% N=887	1.000	89.2 % N=880	1.000
Yes	31.9%	.5.001	20.8%	2.000	33.3%	0.981 (0.759-1.267)	53.2%	1.661 (1.247-2.212
No	68.1%	.0.0	79.2%		66.7%	1.000	46.8%	1.000
rebacking practice Exclusively as a couple	N=3563 21.4%	<0.001	N=1796 22.6%		N=887 24.0%	1.261 (0.925-1.719)	N=880 16.3%	0.973 (0.630-1.50
Non-exclusively	18.1%		14.0%		12.6%	1.105 (0.724-1.687)	32.0%	0.522 (0.302-0.90
Only with casual male partners	21.1%		17.3%		17.6%	1.364 (0.914-2.036)	32.6%	0.576 (0.337-0.98
No barebacking an number of known HIV risk reduction	39.3% N=3550	<0.001	46.1% N=1789	1.000	45.8% N=887	1.000	19.1% N=874	1.000
ategies	7.02 (2.67)	5.501	6.56 (2.64)	000	6.76 (2.67)	0.986 (0.943-1.031)	8.23 (2.33)	1.095 (1.033-1.162
patitis C	N=3563	<0.001	N=1796	1.000	N=887	·	N=880	2 222 / 2 2 2 2
Yes No	2.8% 97.2%		0.9% 99.1%		1.5% 98.5%	3.402 (1.357-8.528)** 1.000	8.2% 91.8%	3.209 (1.403-7.339 1.000
	97.2% N=3563	<0.001	99.1% N=1796		98.5% N=887	1.000	N=880	1.000
mber of casual male partners	21.37		13.22 (28.14)	1.000	15.34 (32.03)	1.003 (0.998-1.007)	44.11 (61.10)	1.005 (1.002-1.009
gularly attending sexually charged meeting	(41.77)	<0.001	(==:2-:)	1.000	(==:==)	,,	(
aces (outdoor places, saunas, sex clubs, peep ows, swingers clubs)	N=3563	\0.001	N=1796	1.000	N=887		N=880	
Yes	22.4%		19.9%		12.9%	0.760 (0.563-1.025)	37.3%	1.276 (0.941-1.73
No hal catisfaction with physical appearance	77.6%	40.00	80.1%	1.000	87.1%	1.000	62.7 %	1.000
bal satisfaction with physical appearance Yes	N=3554 68.7%	<0.001	N=1794 63.6 %	1.000	N=886 73.7%	1.427 (1.121-1.816)**	N=874 73.9%	1.256 (0.928-1.69
No	31.3%		36.4%		26.3%	1.000	26.1%	1.000
sitive impact of drug use	N=3563	<0.001	N=1796	1.000	N=887	1 170 (0 054 1 457)	N=880	1 470 /4 400 4 00
Yes No	57.4% 42.6%		49.0% 51.0%		60.3% 39.7%	1.179 (0.954-1.457) 1.000	71.6% 28.4%	1.478 (1.126-1.940 1.000
EP use at least 1x in lifetime	N=3563	<0.001	N=1796		N=887		N=880	
Yes	9.7%		4.7%		8.0%	1.404 (0.921-2.141)	21.4%	1.710 (1.132-2.58
No dex of the number of different locations	90.3% N=3550	<0.001	95.3 % N=1793		92.0% N=886	1.000	78.6% N=871	1.000
chool, work, neighborhood, gay community, ternet and public space) where discrimination	0.28 (0.77)	.0.001	0.33 (0.83)	1.000	0.20 (0.68)	0.855 (0.731-1.000)*	0.26 (0.70)	0.824 (0.687-0.98
ainst being overweight was felt	, ,	_			, ,		, ,	
ndomless penetration in the context of paid sex		<0.001	N=1796	1.000	N=887		N=880	
Always	2.2%		1.7%		0.5%	0.276 (0.077-0.990)*	5.1% 4.1%	0.287 (0.116-0.711
Often Sometimes	1.6% 1.6%		0.9% 1.6%		0.5% 0.8%	0.528 (0.121-2.296) 0.552 (0.197-1.542)	4.1% 2.6%	0.647 (0.235-1.78 0.310 (0.122-0.78
_	1.5%		0.9%		0.9%	0.800 (0.289-2.213)	3.1%	0.708 (0.266-1.88
Rarely Never or not applicable	1.570		0.570		0.070		0.1	017 00 (01200 2100

Unless otherwise mentioned, all variables listed above were for the past 12 months for participants. Bold numbers indicate significance at p < 0.05. Sociodemographic variables not shown but included in multivariate model with forced entry for control purposes: age, gender identity, birth country, residence in Paris region, residence area, website of origin, university education, profession, relationship status, and sexual orientation. Freq.: Frequency in percentage (%) of column (group); SD: standard deviation; aOR: adjusted odds ratio; 95%CI: 95% confidence intervals.