

Online Supplementary Material

Contents

Figures

S1: The prevalence of ever vaping and current vaping of nicotine and non-nicotine drugs

Tables

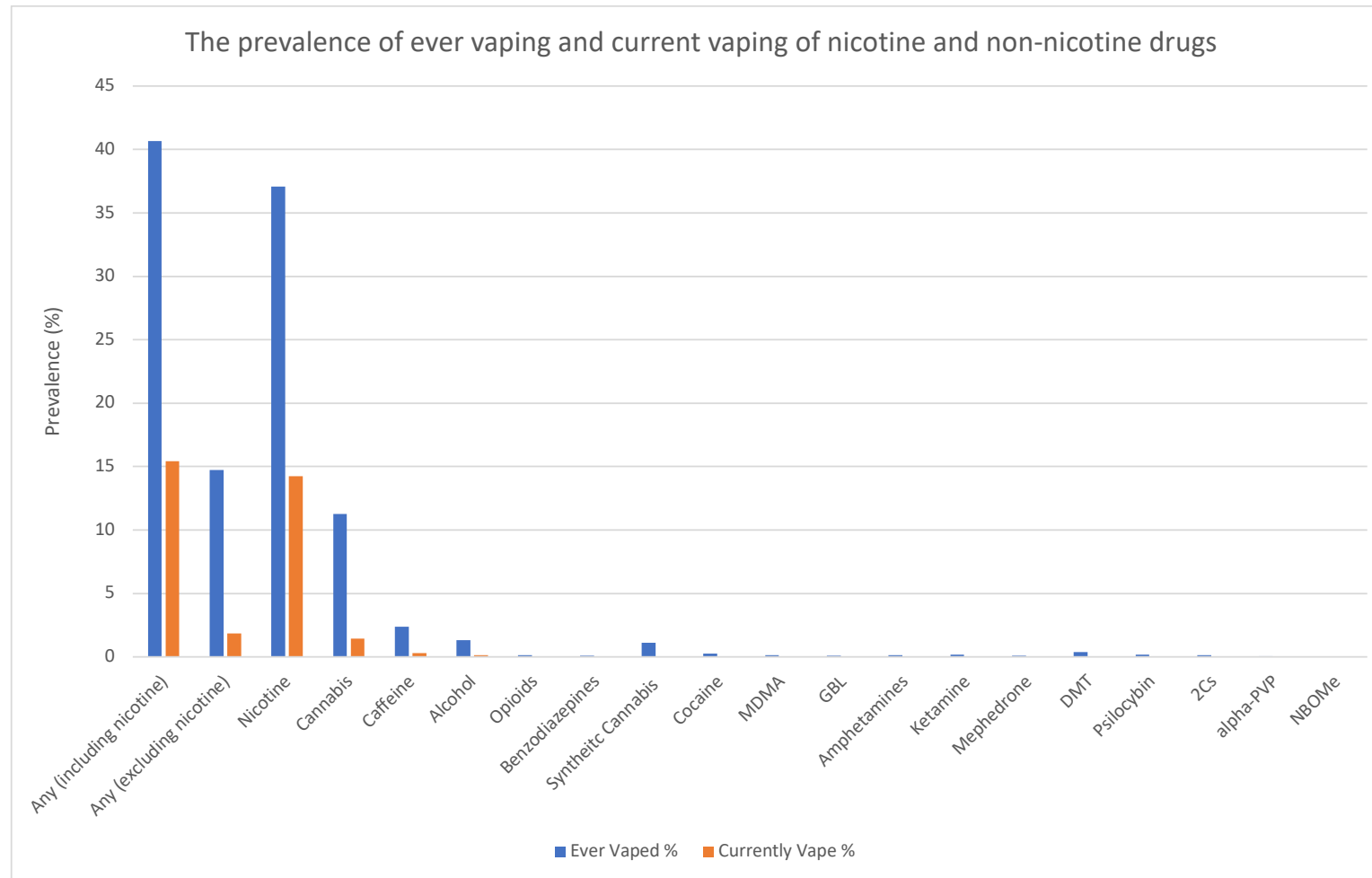
S1: All non-nicotine drug types and subtypes asked about in the online cross-sectional survey

S2: Current use (within the last 30 days) profiles for all remaining non-nicotine drugs

S3: Sociodemographic breakdown of those participants who have never vaped, ever vaped any drug including nicotine and ever vaped any drug excluding nicotine

References

Figure S1: The prevalence of ever vaping and current vaping of nicotine and non-nicotine drugs



Tables

Table S1: All non-nicotine drug types and subtypes as they were detailed to participants in the online cross-sectional survey (adapted from Blundell et al. (1))

Drug	Subtypes
Nicotine	Nicotine e-liquid (freebase) Nicotine salts
Caffeine	Caffeine
Alcohol	Alcohol liquid
Cannabis	Combined THC/CBD resin THC resin CBD resin Combined THC/CBD concentrate THC concentrate CBD concentrate Combined THC/CBD oil THC oil CBD oil Butane hash oil Dry herb/bud combined THC/CBD Dry herb/bud THC Dry herb/bud CBD
Synthetic Cannabis	Spice Black mamba Spice gold Magic gold Exodus K2 Herbal incense Spice arctic Bonzai

Drug	Subtypes
	Annihilation Thai high AB-FUMINACA ADB-PINACA AM-2201 ADB-CHMICA JWH-015 JWH-018 CP-47-497 5F-ADB 5F-AKB48 XLR-11 UR-144 HU-210 MDMB-CHMICA
Cocaine	Cocaine powder Crack cocaine
MDMA	MDMA (aka Ecstasy Molly, Mandy)
GBL	GBL GHB
Amphetamine	Ritalin (Methylphenidate) Crystal methamphetamine (aka Ice, Tina, Crystal)
Opioids	Heroin Morphine Fentanyl
Ketamine	Ketamine (aka Special-K, Ket)
Mephedrone	Mephedrone (aka meow-meow, M-CAT)
DMT	DMT
Psilocybin	Psilocybin
Benzos	Diazepam (aka blues, Valium) Clonazepam (aka Rivotril) Alprazolam (aka Xanax)

Drug	Subtypes
2Cs	2CB 2CE
alpha-PVP	alpha-PVP aka gravelflakka
NBOMe	NBOMe (aka N-Bomb)
Other	Other, please describe

Table S2: Current use (within the last 30 days) profiles for all remaining non-nicotine drugs

	Ketamine	Synthetic Cannabis	Cocaine	Amphetamines	MDMA	GBL	Mephedrone	DMT	Psilocybin	2Cs	alpha-PVP	NBOMe
Currently use n (%)	1 (100%)	2 (100%)	2 (100%)	2 (100%)	0	0	0	0	0	0	0	0
Frequency of current use n (%)												
Daily	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (50.0%)	-	-	-	-	-	-	-	-
Weekly	0 (0.0%)	1 (50.0%)	1 (50.0%)	1 (50.0%)	-	-	-	-	-	-	-	-
Monthly	1 (100.0%)	1 (50.0%)	1 (50.0%)	0 (0.0%)	-	-	-	-	-	-	-	-
Currently use harmfully n (%)	0 (0.0%)	0 (0.0%)	1 (50.0%)	2 (100.0%)	-	-	-	-	-	-	-	-
Currently vape n (%)	0 (0.05)	0 (0.0%)	0 (0.0%)	0 (0.0%)	-	-	-	-	-	-	-	-
Frequency of current vaping n (%)												
Daily	-	-	-	-	-	-	-	-	-	-	-	-
Weekly	-	-	-	-	-	-	-	-	-	-	-	-
Monthly	-	-	-	-	-	-	-	-	-	-	-	-
Age first used mean (SE)	21.3 (1.38)	26.6 (1.37)	23.4 (2.14)	22.8 (3.12)	25.5 (5.17)	28 (2.74)	31.3 (4.81)	27.0 (2.51)	18.6 (1.02)	28.5 (4.14)	18.5 (3.40)	30 (N/A)
Age first vaped mean (SE)	24.4 (2.22)	27.0 (1.41)	31.3 (2.94)	25.8 (3.43)	26.5 (4.86)	30.5 (5.04)	31.7 (4.91)	27.2 (2.48)	27.4 (4.17)	35.7 (5.90)	18.5 (3.50)	30 (N/A)
t, P ¹	-1.9, 0.1	-2.3, 0.02	-2.7, 0.03	-1.4, 0.23	-2.2, 0.08	-1.0, 0.39	-1.0, 0.42	-1.0, 0.33	-1.9, 0.11	-1.1, 0.31	N/A	N/A
Modal reason for vaping initially	Because I thought I would enjoy it (42.8%)	Curiosity just wanted to try (31.1%)	Curiosity just wanted to try (30.0%)	Because I thought I would enjoy it (40.0%)	Because I thought I would enjoy it (50.0%)	Because I thought I would enjoy it (50.0%)	Curiosity just wanted to try (33.3%)	Curiosity just wanted to try (50.0%)	Curiosity just wanted to try (57.1%)	To avoid returning to other routes of administration (33.3%)	To quit other routes of administration (100.0%)	Don't know (100.0%)
Stated an intention to quit use n (%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (50.0%)	-	-	-	-	-	-	-	-

¹ Compared using an unpaired t-test

Table S3: Sociodemographic breakdown of those participants who have never vaped, ever vaped any drug including nicotine and ever vaped any drug excluding nicotine

		All n (%)	Never vaped n (%)	Ever vaped any (including nicotine) n (%)	Ever vaped any (excluding nicotine) n (%)	Ever vaped any non-nicotine compared to never vapers (p) ¹
All	All	4027 (100%)	2,390 (100%)	1,637 (100%)	593 (100%)	-
Gender identity	Gender identity is the same as their sex registered at birth	3984 (98.9%)	2369 (99.1%)	1615 (98.7%)	580 (97.8%)	0.02
	Gender identity is not the same as their sex registered at birth	26 (0.7%)	12 (0.5%)	14 (0.8%)	9 (1.5%)	
	Do not wish to say	17 (0.4%)	9 (0.4%)	8 (0.5%)	4 (0.7%)	
Sexual orientation	Straight/Heterosexual	3548 (88.1%)	2176 (91.1%)	1372 (83.8%)	453 (76.4%)	<0.001
	Gay or Lesbian	153 (3.8%)	69 (2.9%)	84 (5.1%)	34 (5.7%)	
	Bisexual	237 (5.9%)	90 (3.8%)	147 (9.0%)	89 (15.0%)	
	Other sexual orientation	42 (1.0%)	26 (1.1%)	16 (1.0%)	9 (1.5%)	
	Do not wish to say	47 (1.2%)	29 (1.2%)	18 (1.1%)	8 (1.4%)	
Religion	No religion	2502 (62.1%)	1403 (58.7%)	1099 (67.1%)	424 (71.5%)	<0.001 ²
	Christian (including Church of England, Catholic, Protestant and all other Christian denominations)	1233 (30.6%)	820 (34.3%)	413 (25.2%)	112 (18.9%)	
	Buddhist	25 (0.6%)	12 (0.5%)	13 (0.8%)	6 (1.0%)	
	Hindu	34 (0.8%)	14 (0.6%)	20 (1.2%)	9 (1.5%)	
	Jewish	21 (0.5%)	13 (0.5%)	8 (0.5%)	4 (0.7%)	
	Muslim	113 (2.8%)	72 (3.0%)	41 (2.5%)	16 (2.7%)	
	Sikh	13 (0.3%)	9 (0.4%)	4 (0.2%)	1 (0.2%)	
	Any other religion	30 (0.7%)	17 (0.7%)	13 (0.8%)	10 (1.7%)	
Do not wish to say	56 (1.4%)	30 (1.3%)	26 (1.6%)	11 (1.9%)		
Marital status	Never married and never registered in a civil partnership	1980 (49.2%)	1052 (44.0%)	928 (56.7%)	376 (63.4%)	<0.001 ³
	Married	1580 (39.2%)	1088 (45.5%)	492 (30.1%)	152 (25.6%)	
	In a registered civil partnership	56 (1.4%)	19 (0.8%)	37 (2.2%)	12 (2.0%)	
	Separated, but still legally married	51 (1.3%)	22 (0.9%)	29 (1.8%)	9 (1.5%)	
	Separated, but still legally in a civil partnership	3 (0.1%)	2 (0.1%)	1 (0.1%)	1 (0.2%)	
	Divorced	247 (6.1%)	147 (6.2%)	100 (6.1%)	30 (5.0%)	
	Formerly in a civil partnership which is now legally dissolved	4 (0.1%)	2 (0.1%)	2 (0.1%)	0 (0.0%)	
	Widowed	46 (1.1%)	30 (1.3%)	16 (1.0%)	2 (0.3%)	
	Surviving partner from a registered civil partnership	2 (0.1%)	1 (0.1%)	1 (0.1%)	0 (0.0%)	
Do not wish to say	58 (1.4%)	27 (1.1%)	31 (1.9%)	11 (1.9%)		
Disability	Has a condition or illnesses which reduces their ability to carry out day-to-day activities	721 (17.9%)	358 (15.0%)	363 (22.2%)	163 (27.5%)	<0.001
	Does not have a condition or illnesses which reduces their ability to carry out day-to-day activities	3214 (79.8%)	1983 (83.0%)	1231 (75.2%)	413 (69.6%)	
	Do not wish to say	92 (2.3%)	49 (2.1%)	43 (2.6%)	17 (2.9%)	
Level of education	Has achieved a qualification at degree level or above	2506 (62.2%)	1526 (63.9%)	980 (59.9%)	393 (66.3%)	0.51
	Has not achieved a qualification at degree level or above	1489 (37.0%)	846 (35.4%)	643 (39.3%)	195 (32.9%)	
	Do not wish to say	32 (0.8%)	18 (0.8%)	14 (0.9%)	5 (0.8%)	

1 Compared using Fishers exact test; 2 For the purpose of statistical testing this category was collapsed into three levels: No religion, Christian (including Church of England, Catholic, Protestant and all other Christian denominations) and any other religion (Buddhist, Hindu, Jewish, Muslim, Sikh, Any other religion) 3 For the purpose of statistical testing this category was collapsed into three levels; Never married and never registered in a civil partnership, Married or in a registered civil partnership and any form of dissolution (Separated, but still legally married, Separated, but still legally in a civil partnership Divorced, Formerly in a civil partnership which is now legally dissolved, Widowed or Surviving partner from a registered civil partnership)

References

1. Blundell M, Dargan P, Wood D. A cloud on the horizon—a survey into the use of electronic vaping devices for recreational drug and new psychoactive substance (NPS) administration. *QJM: An International Journal of Medicine*. 2018;111(1):9-14.