

City & County of San Francisco
London N. Breed, Mayor



Office of the City Administrator
Carmen Chu, City Administrator
David Serrano Sewell, Executive Director
Office of the Chief Medical Examiner

March 31, 2023

Subject: Report on Drug and Alcohol Prevalence in Sexual Assault Casework – 2021

The enclosed report includes drug and alcohol prevalence data on received Drug Facilitated Sexual Assault (DFSA) casework in the City and County of San Francisco for the year 2021. The reports are published by the Office of the Chief Medical Examiner (OCME), Forensic Laboratory Division, to further the OCME's mission to provide neutral data to inform policymakers.

Pertinent for the accurate use of this report is understanding the scope of testing leading to the summarization of the data. The OCME performs [full and comprehensive testing](#) on all DFSA casework to mitigate bias, ensure a complete toxicological profile is provided for each case, and to determine the extent of alcohol and drugs exposure within the community. The OCME scope of testing for DFSA casework meets and exceeds the national scope and sensitivity standards ([ASB Standard 121](#)) and recommendations ([SOFT-DFC Recommendations](#)).

Enclosed is a detailed DFSA Data Report for 2021. Key findings were:

- One or more substances were identified in 86% of cases.
- The OCME identified the presence of alcohol in 18% of cases, and drugs in 82% of cases.
- The positive identification of drugs alone was the most common result of DFSA casework, accounting for 68% of cases.

Sincerely,

A handwritten signature in blue ink, appearing to read "Luke N. Rodda".

Luke N. Rodda, Ph.D. MRACI CChem
Chief Forensic Toxicologist and Director, Forensic Laboratory Division

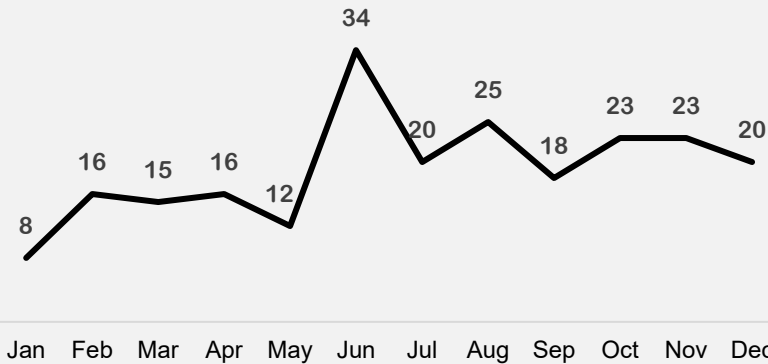
cc: Office of the City Administrator
enclosures: Drug Facilitated Sexual Assault (DFSA) Data Report – 2021



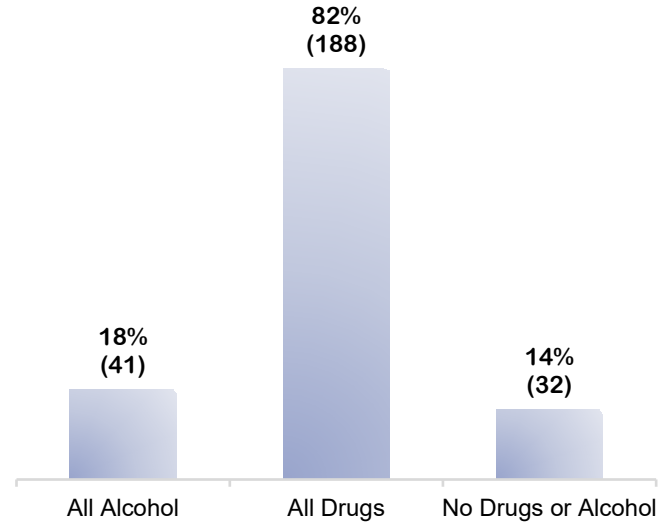
Drug Facilitated Sexual Assault (DFSA) 2021

230 Submitted Cases

Case Submission by Month



Alcohol and Drugs Prevalence



Cases	Drug Class Prevalence	Cases
(1) 87 37%	Amphetamines	Cannabis 36% 86
(16) 54 29%	Antihistamines	Cocaine 24% 57
(2) 50 21%	Analgesics	Opioids 17% 24 (17)
(3) 29 14%	Benzodiazepines	Anticonvulsants 14% 27 (6)
23 10%	Anesthetics	Muscle Relaxants 2% 6
(1) 3 1%	Hallucinogens	Dissociatives 1% 3
3 1%	Miscellaneous	Z (sleeping) Drugs 1% 2

(Denotes where 2 or more of the same drug class was prevalent within same case)

Alcohol and Drug Combination



Drug Prevalence	Cases
Amphetamines	
Methamphetamine	32% 74
Amphetamine	31% 72
Norephedrine/Norpseudoephedrine	20% 47
Ephedrine/Pseudoephedrine	16% 36
MDMA (ecstasy)	2% 4
MDA	1% 3

Drug Prevalence	Cases
Analgesics	
Acetaminophen	15% 34
Salicylic Acid	9% 20
Diltiazem	<1% 1
Anesthetics	
Lidocaine	9% 20
Norlidocaine	8% 18



Drug Facilitated Sexual Assault (DFSA)

2021

230 Submitted Cases

Drug Prevalence		Cases		Drug Prevalence		Cases	
Anticonvulsants							
	Gabapentin	7%	17		Tetrahydrocannabinol (THC)	18%	42
	Lamotrigine	3%	7		11-Hydroxy THC	11%	25
	Topiramate	3%	6		Tetrahydrocannabivarinic Acid (THCVA)	3%	6
	Valproic Acid	2%	5		Tetrahydrocannabinol Acid (THCA)	2%	4
	Levetiracetam	1%	3		Cannabidiol (CBD)	1%	2
	Pregabalin	<1%	1	Cardiac			
Antidepressants							
	Citalopram/Escitalopram	7%	17		Clonidine	1%	2
	Fluoxetine	7%	15	Cocaine			
	Norfluoxetine	7%	15		Benzoylcegonine	25%	57
	Norsertaline	5%	12		Cocaine	16%	37
	Bupropion	4%	10		meta-/para-Hydroxy Cocaine	10%	22
	Sertraline	4%	10		Cocaethylene	6%	14
	O-/N-Desmethyl Venlafaxine	4%	9		Norcocaine	4%	9
	Trazodone	3%	7		Anhydroecgonine Methyl Ester	1%	3
	Venlafaxine	3%	7	Decongestants			
	1-(3-Chlorophenyl)-Piperazine (McPP)	2%	5		Tetrahydrozoline	3%	6
	Mirtazapine	2%	5	Dissociatives			
	Duloxetine	1%	2		Ketamine	1%	3
	Nortriptyline	1%	2		Norketamine	1%	3
	Amitriptyline	<1%	1		gamma-Hydroxybutyric Acid (GHB)	1%	2
Antihistamines					gamma-Butyrolactone (GBL)	<1%	1
	Norchlorcyclizine	22%	51	Hallucinogens			
	Cetirizine/Levocetirizine	17%	38		Lysergic Acid Diethylamide (LSD)	2%	4
	Diphenhydramine	11%	26		Psilocin	<1%	1
	Hydroxyzine	5%	11		Psilocybin	<1%	1
	Doxylamine	4%	9	Miscellaneous			
	Meclizine	2%	4		Mitragynine	<1%	1
	Brompheniramine	<1%	1	Muscle Relaxants			
	Chlorpheniramine	<1%	1		Cyclobenzaprine	2%	5
Antipsychotic					N-Desmethyl Cyclobenzaprine	2%	5
	Olanzapine	7%	16		Scopolamine	<1%	1
	9-Hydroxy Risperidone	4%	10	Opioids			
	Norquetiapine	3%	8		Fentanyl	7%	17
	Risperidone	2%	5		Norfentanyl	7%	17
	7-Hydroxy Quetiapine	2%	4		Codeine	4%	10
	Quetiapine	1%	3		Morphine	4%	10
	Ziprasidone	1%	2		Dextrophan/Levorphanol	3%	8
Benzodiazepines					Dextromethorphan/Levomethorphan	2%	5
	Nordiazepam	5%	11		Hydrocodone	2%	5
	Lorazepam	3%	8		Methadone	2%	4
	7-Amino Clonazepam	3%	6		Norcodeine	2%	4
	Diazepam	3%	6		Norhydrocodone	2%	4
	Alprazolam	2%	4		EDDP (Methadone Metabolite)	1%	3
	Clonazepam	2%	4		Hydromorphone	1%	3
	alpha-Hydroxy Midazolam	1%	3		Naltrexone	1%	3
	Chlordiazepoxide	1%	3		Norbuprenorphine	1%	3
	Oxazepam	1%	3		Noroxycodone	1%	3
	Temazepam	1%	3		Buprenorphine	1%	2
	alpha-Hydroxy Alprazolam	1%	2		Heroin	1%	2
	Etizolam	<1%	1		Naloxone	1%	2
	Flualprazolam	<1%	1		Oxycodone	1%	2
	Flubromazepam	<1%	1		Dihydrocodeine	<1%	1
	Flubromazolam	<1%	1	Volatiles			
	Midazolam	<1%	1		Ethanol	18%	41
Cannabis					Acetone	8%	18
	Carboxy THC	37%	84	Z (sleeping) Drugs			
					Zolpidem Phenyl-4-Carboxylic Acid	1%	2
					Zolpidem	<1%	1