

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 – 2022**

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 2022. 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 2022. Key findings were:

- One or more substances were identified in 87% of cases.
- The OCME identified the presence of alcohol in 21% of cases, and drugs in 84% of cases.
- The positive identification of drugs alone was the most common result of DFSA casework, accounting for 67% 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

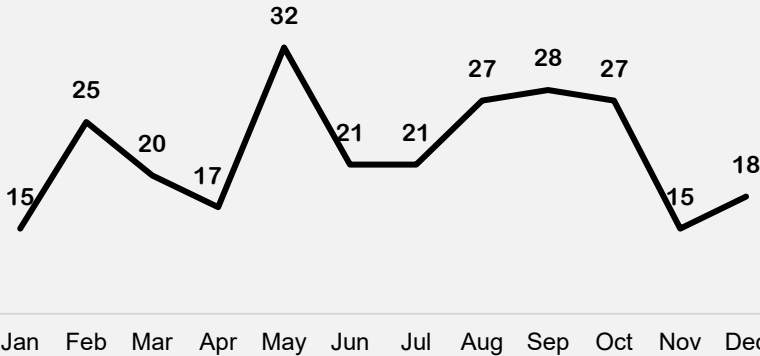
cc: Office of the City Administrator  
enclosures: Drug Facilitated Sexual Assault (DFSA) Data Report – 2022



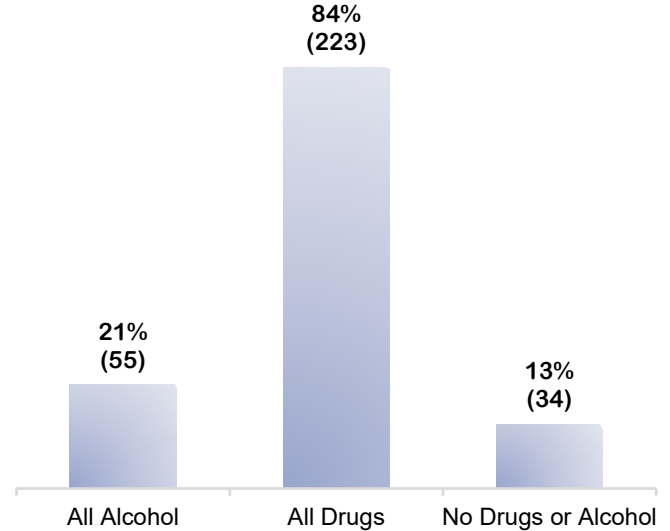
# Drug Facilitated Sexual Assault (DFSA) 2022

266 Submitted Cases

Case Submission by Month



Alcohol and Drugs Prevalence



Cases		Drug Class Prevalence		Cases	
104	39%	Cannabis	Amphetamines	34%	85(5)
(15) 72	33%	Antihistamines	Cocaine	26%	70
(7) 58	24%	Analgesics	Opioids	21%	37(18)
(7) 36	16%	Anticonvulsants	Benzodiazepines	12%	29(2)
26	10%	Anesthetics	Muscle Relaxants	4%	10
3	1%	Barbiturates	Hallucinogens	1%	3
3	1%	Z (sleeping) Drugs	Dissociatives	1%	2

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

## Alcohol and Drug Combination



Drug Prevalence	Cases
<b>Amphetamines</b>	
Methamphetamine	28% 74
Amphetamine	27% 73
Norephedrine/Norpseudoephedrine	23% 61
Ephedrine/Pseudoephedrine	14% 36
MDA	3% 8
MDMA (ecstasy)	3% 7
Methylphenidate	<1% 1

Drug Prevalence	Cases
<b>Analgesics</b>	
Acetaminophen	19% 50
Salicylic Acid	8% 22
<b>Anesthetics</b>	
Lidocaine	9% 23
Norlidocaine	9% 23
<b>Anticonvulsants</b>	
Gabapentin	9% 25



# Drug Facilitated Sexual Assault (DFSA)

## 2022

### 266 Submitted Cases

Drug Prevalence		Cases		Drug Prevalence		Cases	
	Valproic Acid	3%	8		11-Hydroxy THC	15%	40
	Lamotrigine	2%	4		Tetrahydrocannabivarinic Acid (THCVA)	7%	19
	Levetiracetam	2%	6		Tetrahydrocannabinol Acid (THCA)	6%	17
	Topiramate	2%	6		delta-8 Tetrahydrocannabinol (delta-8 THC)	<1%	1
	Primidone	<1%	1		delta-9 Tetrahydrocannabinol (delta-9 THC)	<1%	1
<b>Antidepressants</b>				<b>Cardiac</b>			
	Norsertaline	5%	13		Clonidine	1%	3
	Bupropion	5%	12	<b>Cocaine</b>			
	Sertraline	4%	11		Benzoylcegonine	26%	70
	Citalopram/Escitalopram	4%	10		Cocaine	12%	33
	Fluoxetine	2%	6		meta-/para-Hydroxy Cocaine	10%	26
	Norfluoxetine	2%	6		Cocaethylene	5%	14
	O-/N-Desmethyl Venlafaxine	2%	6		Norcocaine	4%	10
	1-(3-Chlorophenyl)-Piperazine (McPP)	2%	5		Anhydroecgonine Methyl Ester	2%	4
	Duloxetine	2%	4	<b>Decongestants</b>			
	Mirtazapine	2%	4		Tetrahydrozoline	2%	5
	Trazodone	2%	4	<b>Dissociatives</b>			
	Venlafaxine	1%	3		Ketamine	1%	2
	Nordoxepin	1%	2		Norketamine	1%	2
	Amitriptyline	<1%	1	<b>Hallucinogens</b>			
	Nortriptyline	<1%	1		Lysergic Acid Diethylamide (LSD)	<1%	1
<b>Antihistamines</b>					Psilocybin	<1%	1
	Norchlorcyclizine	24%	64		N,N-Dimethyltryptamine (DMT)	<1%	1
	Cetirizine/Levocetirizine	13%	34	<b>Miscellaneous</b>			
	Diphenhydramine	9%	23		Mitragynine	<1%	1
	Doxylamine	3%	9	<b>Muscle Relaxants</b>			
	Hydroxyzine	3%	9		Cyclobenzaprine	4%	10
	Meclizine	1%	3		N-Desmethyl Cyclobenzaprine	4%	10
	Benzotropine	1%	2	<b>Opioids</b>			
	Chlorpheniramine	1%	2		Norfentanyl	13%	34
	Promethazine	1%	2		Fentanyl	8%	21
<b>Antipsychotic</b>					Dextrophan/Levorphanol	5%	12
	Olanzapine	6%	16		Codeine	3%	9
	9-Hydroxy Risperidone	6%	15		Hydromorphone	3%	9
	Norquetiapine	3%	7		Dextromethorphan/Levomethorphan	3%	8
	Risperidone	3%	7		Heroin	3%	8
	7-Hydroxy Quetiapine	2%	5		Morphine	3%	8
	Quetiapine	2%	4		Norcodeine	3%	8
	N-Desmethyl Clozapine	<1%	1		Hydrocodone	3%	7
<b>Barbiturates</b>					Dihydrocodeine	2%	5
	Phenobarbital	1%	3		EDDP (Methadone Metabolite)	2%	5
<b>Benzodiazepines</b>					Methadone	2%	5
	7-Amino Clonazepam	5%	12		Norhydrocodone	2%	5
	Nordiazepam	3%	7		Noroxycodone	2%	5
	Alprazolam	2%	6		Acetyl Fentanyl	1%	3
	Clonazepam	2%	6		Buprenorphine	1%	2
	Lorazepam	2%	6		Norbuprenorphine	1%	2
	Diazepam	2%	4		Tramadol	1%	2
	alpha-Hydroxy Alprazolam	1%	3		Naloxone	<1%	1
	alpha-Hydroxy Midazolam	<1%	1		Noroxymorphone	<1%	1
	Chlordiazepoxide	<1%	1		O-Desmethyl-Tramadol	<1%	1
	Flualprazolam	<1%	1		Oxycodone	<1%	1
	Flubromazepam	<1%	1		Oxymorphone	<1%	1
	Midazolam	<1%	1	<b>Volatiles</b>			
	Oxazepam	<1%	1		Ethanol	21%	55
	Temazepam	<1%	1		Acetone	6%	16
<b>Cannabis</b>				<b>Z (sleeping) Drugs</b>			
	Carboxy THC	37%	99		Zolpidem Phenyl-4-Carboxylic Acid	1%	2
	Tetrahydrocannabinol (THC)	23%	62		Zolpidem	<1%	1