

Case Number: 2024-1459 OFFICE OF THE CHIEF MEDIAL EXAMINER CAUSE AND MANNER OF DEATH REPORT CITY AND COUNTY OF SAN FRANCISCO

Decedent Name:	BALAJI, SUCHIR
Age:	26
Alias Name(s):	DOE_2024_260, JOHN
Date of Death:	11/26/2024
Examination Type:	PARTIAL AUTOPSY
Cause of Death:	GUNSHOT WOUND OF HEAD

Due to:

Due to:

Due to:

Manner of Death: Suicide

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Case Number: 2024-1459 OFFICE OF THE CHIEF MEDIAL EXAMINER MEDICAL EXAMINER'S REGISTER

CITY AND COUNTY OF SAN FRANCISCO

DECEDENT

BALAJI, SUCHIR

Alias: Date of Birth Date of Death: Age: Gender:

Decedent Name:

DOE_2024_260, JOHN 11/21/1998 11/26/2024 26 MALE

LEGAL NEXT-OF-KIN Next-of-Kin: Notified Date:

Mother 11/26/2024

DISPOSITION

Body Received: Mortuary: Body Released: Release Signed By: Public Administrator: PA Date Notified: 11/26/2024 04:12 PM BERGE PAPPAS SMITH CHAPEL OF THE ANGELS 11/27/2024 1450

PROPERTY

0 0 NO PROPERTY BY INVESTI -

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Case Number: 2024-1459 OFFICE OF THE CHIEF MEDICAL EXAMINER INVESTIGATOR'S REPORT

CITY AND COUNTY OF SAN FRANCISCO

NAME: Balaji, Suchir Rohith

PRONOUNCEMENT OF DEATH

11/26/2024
13:20
Residence
188 Buchanan Street #409, SAN FRANCISCO,CA 94102

DECEDENT INFORMATION

AGE: 26 HEIGHT: 5' 10" WEIGHT: 144Lbs GENDER: MALE NEXT-OF-KIN: Mother

CIRCUMSTANCES OF DEATH

The decedent, Suchir Balaji (BALAJI), a 26-year-old male, resided alone at 188 Buchanan Street, apartment unit #404, San Francisco, California 94102. On Tuesday, 11/26/2024, BALAJI was found unresponsive inside his locked apartment unit (deadbolt engaged) with an apparent self-inflicted gunshot wound to his head. Entry to the unit was made by the building manager, San Francisco Fire Department paramedics, and San Francisco Police Department officers to perform a wellness check. San Francisco Fire Department Paramedics pronounced death at 1320 hours. BALAJI was brought under the jurisdiction of this office due to the circumstances of the injury.

ADDITIONAL INVESTIGATIVE OBSERVATIONS

BALAJI'S fourth-floor apartment is accessed through the front door. There are no other entry points to the unit. The apartment windows are stories above the shared courtyard and street and are equipped with devices that restrict the window opening to approximately four inches. There was no evidence of forced entry to the unit or disturbance within the unit. A desktop computer was observed on scene. Recent searches for brain anatomy included "Total Gray Matter Volume" and "White Matter."

IF PRONOUNCED AT HOSPITAL

Not applicable.

MEDICAL INTERVENTION

No.

INJURY (INCIDENT) LOCATION

188 Buchanan Street #409, San Francisco, California 94102.

DECEDENT LAST SEEN ALIVE: DATE, TIME, AND BY WHOM/CONTEXT

BALAJI last communicated with his mother via text message on Friday, 11/22/2024. At that time, he did not voice any complaints or concerns.

DECEDENT FOUND BY

BALAJI was found unresponsive and alone by the building manager, San Francisco Fire Department paramedics, and San Francisco Police Department officers during a wellness check.

MEDICATIONS FOUND AT THE SCENE

No medications were located at the scene.



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EVIDENCE AND/OR PERSONAL PROPERTY FOUND AT THE SCENE

The following items were secured at the scene: one (1) Glock pistol containing four (4) live rounds in the magazine and one (1) spent casing located in the chamber; one (1) gunshot residue kit; and one (1) handbag kit. The pistol was purchased and registered by BALAJI on 01/04/2024. The key to the unit was located, verified to match the unit, and left at the scene for the mother to take possession.

The gunshot residue kit, BALAJI's pistol, four live rounds, and the spent bullet was transferred to SFPD for their analysis. The OCME is informed by SFPD that gunshot residue particles were detected on both BALAJI's right hand and left hand; that the ballistics test performed on the pistol determined that the markings on the bullet recovered from his cranium during the examination at the OCME matched the unique striations left by the pistol's barrel, confirming that it was BALAJI's pistol used at the scene; and that BALAJI's DNA was found on his pistol.

WITNESS INTERVIEWS AND SOCIAL HISTORY

The decedent's mother reported that BALAJI had experienced significant stress recently. He had quit his job and was actively seeking new employment. The mother stated that, to her knowledge, BALAJI had never expressed suicidal ideations nor attempted suicide in the past.

POSITION OF BODY

BALAJI was found lying supine on the floor of the bathroom. The pistol was found underneath his right thigh.

CLOTHING

The decedent was clad in casual street attire.

IDENTIFYING FEATURES FOR UNIDENTIFIED DECEDENT

Not applicable.

RIGOR

Rigor was absent.

LIVOR

Livor was indiscernible.

DECOMPOSITION

Decomposition was moderate.

TRAUMATIC INJURIES

BALAJI sustained a severe firearm injury characterized by a circular defect to his forehead.

IDENTIFICATION OF DECEDENT

The decedent was identified using a California identification card (DL#F7926191) and by visual confirmation by his mother at the scene.

NEXT-OF-KIN

The decedent's mother was present at the scene.

RECORDS

Records obtained during this investigation (e.g., medical, paramedic, and law enforcement) are placed into the case management system for review.

DISPOSITION OF BODY

The decedent was transported to the OCME for examination and further examination.

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This report was reviewed and approved for release by David Serrano Sewell, Executive Director, Office of the Chief Medical Examiner.

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CITY AND COUNTY OF SAN FRANCISCO

Office of the Chief Medical Examiner Medical Division

Case No. 2024-1459

Name: BALAJI, SUCHIR Date & Time: November 27, 2024 0845 Hours

Age: 26 Height: 5'10" Weight: 144 lbs. BMI: 20.7 kg/m²

PRELIMINARY EXAMINATION: The body is received in a Medical Examiner's pouch and is identified by an appropriately labeled Medical Examiner's tag affixed to the pouch zipper. When first viewed, the decedent is clad in a white T-shirt, blue jean pants, black belt, black underwear and black socks. The hands are protected by brown paper bags secured at the wrists with white tie wraps, which are removed and discarded. The front and back of the hands show no traumatic injuries. The clothing is removed and placed in an appropriately labeled, sealed, clear plastic bag, which is returned with the body. No personal property items are identified on the body.

RADIOGRAPHY: Deferred.

POSTMORTEM COMPUTED TOMOGRAPHY: A postmortem computed tomography (PMCT) scan of the head and body is performed and reveals widespread gaseous changes of postmortem putrefactive decomposition, a penetrating defect of the frontal skull with associated facial bone and basilar skull fractures, a trail of retained small metallic projectile fragments traversing the skull sinuses, fracture of cervical vertebra C1, and a retained metallic projectile in the posterior neck soft tissues.

EXTERNAL EXAMINATION: The body is that of a well-developed, well-nourished, adult man whose appearance is compatible with the reported age of 26 years.

The face and head are injured by a gunshot wound which is described in the "Evidence of Injury" section of this report. The scalp hair is black, straight, and approximately 5 cm in greatest length. The mustache and beard areas are clean-shaven. The eyelids are normally formed. The conjunctivae are clear without petechial hemorrhages. The sclerae are white without icterus. The irides are brown. The corneas are clouded obscuring the pupils. The nose appears normally formed. The mouth has native dentition in good repair. The oral mucosa is moist and unremarkable. The frenula are intact. The external ears are normally formed, symmetric, intact, and unremarkable.

The neck and chest are normally formed, intact, and symmetric. The abdomen is symmetric, slightly tense and slightly protuberant with gas. The external genitalia are those of a normally developed adult male. The posterior body surfaces are normally formed. The anus is patent and without trauma.

The upper and lower extremities are normally formed, symmetric, and intact.

POSTMORTEM CHANGES: The body temperature is cool, subsequent to refrigeration. Rigor mortis is absent. Green-purple fixed lividity is seen over the posterior dependent surfaces of the body. There is no evidence of postmortem embalming or organ/tissue donation. External

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Office of the Chief Medical Examiner Medical Division Case No. 2024-1459

Name: BALAJI, SUCHIR

Date & Time: November 27, 2024 0845 Hours

changes of moderate postmortem putrefactive decomposition include green discoloration and sloughing of skin, venous marbling, clouding of the corneas, gaseous bloating of the abdomen, desiccation of the digits, and bloating and distortion of the facial features.

EVIDENCE OF MEDICAL THERAPY: There is no medical therapy.

IDENTIFYING MARKS AND SCARS: There are no readily identifiable surgical or traumatic scars. There are no tattoos.

EVIDENCE OF INJURY:

GUNSHOT WOUND OF HEAD

Entrance: On the glabella of the forehead, centered approximately 13 cm below the top of the head and 0.5 cm right of the anterior midline, is an entrance gunshot wound consisting of a defect with stellate radiating lacerations, measuring approximately $5.2 \times 2.3 \text{ cm}$. Soot and unburned gunpowder particles are not readily visible on the skin surrounding the wound and may be obscured by changes of postmortem decomposition. No gunpowder stippling is observed on the skin surrounding the wound.

Path: The hemorrhagic wound track sequentially perforates the skin and soft tissues, facial bones, skull sinuses, cervical vertebra C1, and cervicomedullary junction of the spinal cord. The projectile comes to rest in the soft tissues of the posterior neck.

Associated injuries include soft tissue hemorrhage, facial bone and basilar skull fractures, fracture of cervical vertebra C1, and medulla/high cervical spinal cord injury.

Recovery: A distorted projectile with a dark metal core and copper color jacket is recovered from the posterior neck soft tissues, located approximately 22 cm below the top of the head and 1 cm right of the posterior midline, and is packaged as "Evidence".

Trajectory: The wound track travels from the decedent's front to back and downward.

INTERNAL EXAMINATION: Incisions of the posterior neck are performed in order to recover the retained projectile. Incisions of the lower abdomen and right thigh are performed in order to collect urine and femoral blood specimens for toxicology testing. The limited view of the abdominal cavity is unremarkable without excess fluid, hemorrhage, or exudates. The visible loops of small and large intestine have smooth serosal surfaces and are unremarkable. The urinary bladder is intact with a smooth, tan mucosa and contains approximately 7 mL of cloudy yellow urine. The visible muscles and subcutaneous tissues are unremarkable.

The remainder of the internal examination is deferred.

CITY AND COUNTY OF SAN FRANCISCO

Office of the Chief Medical Examiner Medical Division Case No. 2024-1459

Name: **BALAJI, SUCHIR**

Date & Time: November 27, 2024 0845 Hours

TOXICOLOGY: Toxicological testing of the postmortem blood detected an ethanol concentration of 0.178% (w/v), amphetamine, norephedrine/norpseudoephedrine, and gamma-hydroxybutyric acid (GHB) in the setting of moderate postmortem decomposition. Please see the toxicology report issued by the Forensic Laboratory Division for further details.

FINDINGS:

- I. Gunshot wound of head
 - A. Entrance: Forehead
 - B. Path: Skin, soft tissues, facial bones, skull sinuses, cervical vertebra C1, medulla/high cervical spinal cord, posterior neck soft tissues
 - C. Associated injuries:
 - 1. Soft tissue hemorrhage
 - 2. Facial bone and basilar skull fractures
 - 3. Fracture of cervical vertebra C1
 - 4. Medulla/high cervical spinal cord injury
 - D. Recovery: Metallic projectile recovered from posterior neck soft tissues
 - E. Trajectory: Front to back and downward
- II. See toxicology report
- III. Moderate state of postmortem putrefactive decomposition

CAUSE OF DEATH: Gunshot wound of head

MANNER OF DEATH: Suicide

- Spec. to Pathology: None.
- Spec. to Histology: None.
- **Spec. to Toxicology:** Peripheral blood, urine.
- Spec. to Microbiology: None.

Evidence: Blood spot, projectile recovered from posterior neck.

This report was reviewed and approved for release by Christopher Liverman M.D., Ph.D., Chief Medical Examiner.

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FORENSIC LABORATORY DIVISION

REPORT OF FORENSIC TOXICOLOGY ANALYSES

Nam	e:	
Subr	nitte	r:
Sub.	Ref.	No.:

BALAJI, Suchir Rohith OCME N/A

SFOCME Case No.: Initial Submission Date & Time: Date of Report:

2024-1459 11/27/2024 1220 hrs 12/24/2024

SPECIMENS ACCESSIONED								
SPECIMEN TYPE SPECIMEN ID VOL (mL) COLLECTED DESCRIPTOR(S) PROTOCOLS								
Blood (Peripheral)	402193	4	11/27/2024	1015 hrs	Oily.	GCET-FL, LCQD-BL ¹ , LCFS-BL		
Urine	402194	7	11/27/2024	1015 hrs	Brown, cloudy.	GCET-FL ² , LCQD-UR ^{3,4}		

ANALYTICAL RESULTS

SPECIMEN TYPE	SPECIMEN ID	COMPONENTS DETECTED			PROTOCOL PERFORMED
Blood (Peripheral)	402193	Ethanol	0.178 ±0.011	% (w/v)	GCET-FL
Urine	402194	Ethanol	0.132 ±0.008	% (w/v)	GCET-FL
Blood (Peripheral)	402193	Amphetamine ⁵	≥ 10	ng/mL	LCQD-BL, LCQD-BL
Blood (Peripheral)	402193	Norephedrine / Norpseudoephedrine	< 5.0	ng/mL	LCQD-BL
Blood (Peripheral)	402193	gamma-Hydroxybutyric Acid (GHB)6	≥ 5,000	ng/mL	LCQD-BL, LCQD-BL
Urine	402194	Amphetamine	≥ 50	ng/mL	LCQD-UR
Urine	402194	Norephedrine / Norpseudoephedrine	≥ 10	ng/mL	LCQD-UR

APPENDICES:

Appendix 1 – Scope and Reporting Limits for descriptions of Analytical Protocols. Targeted components and reporting limits may be subject to change.

COMMENTS:

Contact the Forensic Laboratory Division for questions regarding the report, comments, or any specific components.

¹Analytical challenges due to interference and/or specimen condition; consequently, detection of some compounds may be reduced.

²Analysis performed at half volume due to specimen condition and/or volume; consequently, effective reporting limits should be considered.

³Analytical challenges due to interference and/or specimen condition; consequently, detection of Phentermine may be reduced.

⁴Possible Salicylic Acid observed; approximate result obtained was ≥ 250 ng/mL.

⁵Approximate results obtained were 39 ng/mL and 35 ng/mL.

⁶Approximate results obtained were 67,000 ng/mL and 54,000 ng/mL.

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FORENSIC LABORATORY DIVISION

APPENDIX 1 – SCOPE AND REPORTING LIMITS

Some components within the scope may not be assessed. Contact the Forensic Laboratory Division for more information.

If applicable, when quantitative results are reported, the respective analytical protocol is listed first.

When Uncertainty of Measurement is provided, it is at the coverage probability of 99.73%. Drug classes, displayed as bold and italicized subheaders, may contain prodrugs, precursors, and metabolites.

GCET-FL by HS-GC-FID

The forensic alcohol analysis was performed by a qualified forensic alcohol analyst(s) pursuant to Title 17 of the California Code of Regulations. The equipment used was in proper working order at the time the analysis was performed, the recording of the forensic alcohol analysis was done at the time of the analysis, and the transfer of the data for reporting purposes was performed electronically in accordance with the laboratory's policies and procedures.

Component	Blood, Urine, Bladder Wash, Vitreous Humor
Volatiles	
Ethanol	0.01 % (w/v)
Methanol	10 mg/dL
Acetone	10 mg/dL
Isopropanol	10 mg/dL

LCQD-BL and LCQD-UR by LC-MS/MS [ng/mL]

Component	Blood	Urine	Component	Blood	Urine
Amphetamines			Venlafaxine	2.5	2
3,4-Methylenedioxyamphetamine (MDA)	2.5	10	Antihistamines		
3,4-Methylenedioxymethamphetamine (MDMA)	2.5	10	Benztropine	1	
Amphetamine	10	50	Brompheniramine	0.5	C
Ephedrine / Pseudoephedrine	2.5	10	Carbinoxamine	0.5	0
Mazindol	1	10	Cetirizine / Levocetirizine	1	
Methamphetamine	10	50	Chlorpheniramine	5	:
Methylphenidate	1	2.5	Diphenhydramine	1	
Norephedrine / Norpseudoephedrine	2.5	10	Doxylamine	2.5	
Phenmetrazine	2.0	25	Hydroxyzine	2.0	2
Phentermine	25	50	Meclizine	0.5	(
Ritalinic Acid	2.5	5	Norchlorcyclizine	0.5	, c
	2.5	5	Promethazine	0.5	
	500	500		0.5	
Acetaminophen	500	500	Antipsychotics		
Salicylic Acid	100	250	7-Hydroxy Quetiapine	1	
Anesthetics	_	_	9-Hydroxy Risperidone	0.5	C
Lidocaine	5	5	Chlorpromazine	1	
Norlidocaine	5	5	Clozapine	1	
Anticonvulsants			N-Desmethyl Clozapine	1	
10,11-Dihydro-10-Hydroxy Carbamazepine	25	25	Norquetiapine	2.5	2
Carbamazepine	25	25	Olanzapine	5	
Gabapentin	10	100	Quetiapine	2.5	2
Lamotrigine	10	10	Risperidone	0.5	(
Levetiracetam	10	10	Thioridazine	1	
Phenytoin	25	25	Ziprasidone	2.5	
Pregabalin	100	250	Barbiturates		
Primidone	5	10	Amobarbital / Pentobarbital	10	:
Topiramate	25	25	Aprobarbital	10	
Valproic Acid	2,500	5,000	Barbital	10	
Antidepressants	2,000	0,000	Butabarbital	10	
1-(3-Chlorophenyl)-Piperazine (McPP)	1	N/A	Butalbital / Talbutal	10	
Amitriptyline	1	1	Hexobarbital	500	5.0
	1		Mephobarbital	500	2,5
Bupropion	1	5 5	Phenobarbital	10	2,5
Citalopram / Escitalopram	1	-		-	
Clomipramine	1	1	Secobarbital	10 10	
Desipramine	1	1	Thiopental	10	
Doxepin	1	1	Benzodiazepines		_
Duloxetine	2.5	2.5	7-Amino Clonazepam	1	2
Fluoxetine	2.5	2.5	7-Amino Flunitrazepam	1	2
Imipramine	1	1	7-Amino Nitrazepam	1	
Mirtazapine	2.5	2.5	8-Amino Clonazolam	0.25	0.
Nordoxepin	1	1	alpha-Hydroxy Alprazolam	1	2
Norfluoxetine	5	5	alpha-Hydroxy Midazolam	1	
Norsertraline	5	5	alpha-Hydroxy Triazolam	2.5	
Nortriptyline	1	1	Alprazolam	1	
O-Desmethyl Venlafaxine / N-Desmethyl Venlafaxine	2.5	2.5	Bromazepam	2.5	
Paroxetine	5	10	Bromazolam	0.5	(
FaiOXelline	-	-			
Sertraline	2.5	2.5	Chlordiazepoxide	1	

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Office of the **Chief Medical Examiner**

FORENSIC LABORATORY DIVISION

Component	Blood	Urine
Clonazepam	2.5	5
Clonazolam	1	2.5
Clotiazepam	1	1
Delorazepam	2.5	5
Desalkyl Flurazepam	1	1
Desalkyl Gidazepam	1	1
Deschloro Etizolam / 4'-Chloro Deschloro Alprazolam	0.25	0.25
Diazepam	1	1
Diclazepam	1 1	2.5
Estazolam	-	1
Etizolam	0.5	1
Flualprazolam Flubromazepam	0.5 1	1
Flubromazepan	0.5	1
Fluclotizolam	0.5	0.5
Flunitrazepam	0.25	0.0
Flurazepam	0.5	1
Lorazepam	5	10
Lormetazepam	1	2.5
Meclonazepam	1	2.0
Metizolam	0.5	0.5
Midazolam	0.0	1
N-Desmethyl Flunitrazepam	1	2.5
Nimetazepam	1	2.0
Nitrazepam	1	2.5
Nordiazepam	1	0
Oxazepam	10	10
Phenazepam	2.5	5
Prazepam	0.5	1
Pyrazolam	2.5	5
Temazepam		5
Triazolam	0.5	5
Zolazepam	0.5	1
Cannabinoids		
11-Hydroxy THC	1	2.5
Cannabidiol (CBD)	1	2.5
Cannabidiolic Acid (CBDA)	1	1
Cannabidivarin (CBDV)	5	5
Cannabigerol (CBG)	1	2.5
Cannabigerolic Acid (CBGA)	1	1
Cannabinol (CBN)	1	2.5
Carboxy THC	2.5	5
Tetrahydrocannabinol (THC)	1	2.5
Tetrahydrocannabinol Acid (THCA)	1	1
Tetrahydrocannabivarin (THCV)	1	5
Tetrahydrocannabivarinic Acid (THCVA)	1	1
Cardiacs		
Clonidine	0.25	1
Diltiazem	1	1
Cathinones		
3,4-Methylenedioxy alpha-Pyrrolidinohexanophenone		
(3,4-MDPHP) / N-Cyclohexyl N-Methyl Methylone / N-		
Cyclohexyl Butylone	0.1	0.25
alpha-PHP / alpha-PiHP	0.1	0.5
Eutylone	0.25	2.5
Mephedrone / 3-Methylmethcathinone (3-MMC)	0.75	1
N-Propyl Butylone / N,N-Dimethyl Pentylone	0.5	0.5
Pentylone	0.25	0.5
Cocaine		
Anhydroecgonine Methyl Ester	5	25
Benzoylecgonine	10	10
Cocaethylene	1	2.5
Cocaine	1	2.5
meta-Hydroxy Cocaine / para-Hydroxy Cocaine Norcocaine	0.25 2.5	0.5 5

Component	Blood	Urine
Dissociatives and Hallucinogens		
2-Fluoro Deschloro Ketamine	2.5	2.5
3-Chloro PCP	0.1	0.25
3-Hydroxy PCP	0.25	0.5
3-Methoxy PCP / 4-Methoxy PCP	0.1	1
5-Methoxy DMT	0.5	0.5
Deschloroketamine	2.5	2.5
gamma-Butyrolactone (GBL)	12,500	200,000
gamma-Hydroxybutyric Acid (GHB)*	5,000	10,000
Ibogaine	5	10
Ketamine	5	10
Lysergic Acid Diethylamide (LSD)	0.1	0.1
N,N-Dimethyltryptamine (DMT)	0.5	0.5
Norketamine	1	10
Phencyclidine (PCP)	1	10
Psilocin	1	5
Fentanyl Fontanyl	0.1	1
Fentanyl Norfentanyl	0.1 0.25	1
Fentanyl Analogs	0.20	•••••••••••••••••••••••••••••••••••••••
[meta-/ortho-/para-]Fluoro Fentanyl	0.05	0.05
Acetyl Fentanyl	0.1	1
para-Fluoro Norfentanyl	0.5	1
Miscellaneous		
Tetrahydrozoline	0.1	0.5
Muscle Relaxants		
Carisoprodol	25	25
Cyclobenzaprine	0.5	0.5
Meprobamate	50	100
N-Desmethyl Cyclobenzaprine	0.5	0.5
Scopolamine	0.5	0.5
Opioids 6-MonoacetyImorphine (6-MAM)	0.25	2.5
Buprenorphine	0.25	2.5
Codeine	0.5	5
Dextromethorphan / Levomethorphan	0.5	5
Dextrorphan / Levorphanol	0.5	1
Dihydrocodeine	0.0	5
EDDP (Methadone Metabolite)	5	10
Hydrocodone	1	5
Hydromorphone	1	5
Methadone	1	1
Mitragynine	2.5	5
Morphine		5
Nalbuphine	1	5
Naloxone	1	5
Naltrexone	1	5
Norbuprenorphine	1	5
Norcodeine	5	5
Norhydrocodone	1	10
Noroxycodone	1	10
Noroxymorphone	5	50
O-Desmethyl-Tramadol	1	5
Oxycodone	2.5	5
Oxymorphone	1	10
Tapentadol	5	10
Tramadol	1	10
Sleep Aids		
Suvorexant	0.5	1
Veterinary Tranquilizers Xylazine	0.25	0.75
Z Drugs	0.20	0.75
Zaleplon	0.5	1
Zolpidem	0.75	1
- 1		•

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FORENSIC LABORATORY DIVISION

Component	Blood	Urine	Component	Blood	Urine
Zolpidem Phenyl-4-Carboxylic Acid Zopiclone / Eszopiclone	0.5 1	1 10	Zopiclone-N-oxide	N/A	10

* In postmortem casework, GHB is reported when results are greater than 50,000 ng/mL.

LCFS-BL and LCFS-UR by LC-MS/MS [ng/mL]

Component	Blood	Urine	Component	Blood	Urine			
Antidepressants			2',5'-Dimethoxy 4'-Propyl Fentanyl / 2',5'-					
Tianeptine	0.25	0.25	Dimethoxy 4'-Isopropyl Fentanyl	0.05	0.05			
Dissociatives and Hallucinogens			2',5'-Dimethoxy 4'-Propylthio Fentanyl	0.05	0.05			
3-Hydroxy PCP	0.1	0.1	2',5'-Dimethoxy 4'-Trifluoro Methyl Fentanyl	0.05	0.05			
Fentanyl			2',5'-Dimethoxy alpha-Methyl Fentanyl	0.05	0.05			
4-Anilino N-Phenethylpiperidine (4-ANPP)	0.075	0.075	2',5'-Dimethoxy Fentanyl	0.1	0.1			
4-Anilino-1-Benzylpiperidine (4-ANBP)	0.05	0.05	2',6'-Dimethoxy Fentanyl	0.05	0.05			
4-Anilino-1-Boc-Piperidine (N-Boc-4-AP)	10	10	2'-Fluoro Fentanyl	0.05	0.05			
4-Anilinopiperidine (4-AP)	5	5	2'-Methyl Acetyl Fentanyl	0.05	0.05			
beta-Hydroxy Fentanyl	0.25	0.25	3',4',5'-Trimethoxy alpha-Methyl Fentanyl	0.075	0.075			
N-Methyl Norfentanyl	0.075	0.075	3',4'-Dimethoxy Fentanyl	0.075	0.075			
N-Phenethyl 4-Piperidone (NPP)	0.25	0.25	3',4'-Methylenedioxy alpha-Methyl Fentanyl	0.1	0.1			
Fentanyl Analogs	••		3',5'-Dimethoxy Fentanyl	0.075	0.075			
[3'-/4'-/meta-/para-]Methyl Fentanyl / Butyryl			3'-Fluoro Fentanyl / 4'-Fluoro Fentanyl	0.075	0.075			
Fentanyl / Isobutyryl Fentanyl	0.1	0.1	3'-Methyl Acetyl Fentanyl / 4'-Methyl Acetyl	0.07.0	0.010			
[cis-3-/alpha'-/para-]Methyl Butyryl Fentanyl /	011		Fentanyl	0.075	0.075			
para-Methyl Isobutyryl Fentanyl / Isovaleryl			3'-ortho-Difluoro Fentanyl	0.075	0.075			
Fentanyl / Pivaloyl Fentanyl / Valeryl Fentanyl	0.05	0.05	4-Phenyl Fentanyl / beta'-Phenyl Fentanyl	0.075	0.075			
[cis-3-/trans-3-/alpha-/beta-/ortho-]Methyl	0.00	0.00	Acetyl Norfentanyl	0.5	0.070			
Fentanyl / Isobutyryl Fentanyl	0.075	0.075	Acryl Fentanyl	0.075	0.075			
[cis-3-/trans-3-/alpha-]Methyl Thiofentanyl	0.075	0.075	Alfentanil	0.05	0.075			
[meta-/ortho-/para-]Fluoro Acryl Fentanyl	0.075	0.075	alpha'-Methoxy Fentanyl / para-Hydroxy	0.00	0.00			
[meta-/ortho-/para-]Fluoro Butyryl Fentanyl /	0.075	0.075	Butyryl Fentanyl / ortho-Methyl Methoxyacetyl					
[meta-/ortho-/para-]FIBF / para-Chloro Acryl			Fentanyl / Ethoxyacetyl Fentanyl	0.05	0.05			
Fentanyl	0.075	0.075	alpha-Dimethyl Fentanyl	0.05	0.05			
	0.075	0.075	alpha-Methyl Acetyl Fentanyl / beta-Methyl	0.05	0.05			
[meta-/ortho-/para-]Fluoro Fentanyl				0.075	0.075			
[meta-/ortho-/para-]Fluoro Furanyl Fentanyl	0.05	0.05	Acetyl Fentanyl Benzodioxole Fentanyl / 2,3-Benzodioxole	0.075	0.075			
[meta-/ortho-/para-]Fluoro Methoxyacetyl	0.1	0.1		0.05	0.05			
Fentanyl	0.1	0.1	Fentanyl Bonzul Agnid Fentanul	0.05	0.05			
[meta-/ortho-/para-]Fluoro Valeryl Fentanyl	0.05	0.05	Benzyl Acryl Fentanyl	0.05	0.05			
[meta-/ortho-/para-]Methoxy Furanyl Fentanyl	0.05	0.05	Benzyl Carfentanil	0.05	0.05			
[meta-/para-]Methyl Methoxyacetyl Fentanyl /	0.075	0.075	Benzyl Fentanyl	0.05	0.05			
Ethoxyacetyl Fentanyl	0.075	0.075	beta-Hydroxy Acetyl Thiofentanyl	0.075	0.075			
2,2,3,3-Tetramethyl Cyclopropyl Fentanyl	0.05	0.05	beta-Hydroxy Thiofentanyl	0.075	0.075			
2,3-Seco Fentanyl	0.025	0.025	Butyryl Norfentanyl / Isobutyryl Norfentanyl	0.25	0.25			
2',3'-Dimethoxy Fentanyl	0.05	0.05	Carboxy Butyryl Fentanyl	0.05	0.05			
2',4'-Dimethoxy Fentanyl	0.05	0.05	Carfentanil	0.05	0.05			
2',5'-Dimethoxy 3',4'-Dimethyl Fentanyl / 2',5'-	0.05	0.05	cis-3-Methyl Norfentanyl / trans-3-Methyl	0.05	0.05			
Dimethoxy 4'-Methyl alpha-Methyl Fentanyl	0.05	0.05	Norfentanyl	0.05	0.05			
2',5'-Dimethoxy 4'-Bromo alpha-Methyl	0.075	0.075	cis-Isofentanyl	0.25	0.25			
Fentanyl	0.075	0.075	Crotonyl Fentanyl / Cyclopropyl Fentanyl /					
2',5'-Dimethoxy 4'-Bromo Fentanyl	0.075	0.075	ortho-Methyl Acryl Fentanyl	0.075	0.075			
2',5'-Dimethoxy 4'-Butyl alpha-Methyl			Cyclobutyl Fentanyl / Senecioyl Fentanyl /					
Fentanyl	0.05	0.05	ortho-Methyl Cyclopropyl Fentanyl	0.1	0.1			
2',5'-Dimethoxy 4'-Chloro alpha-Methyl			Cyclohexyl Fentanyl	0.1	0.1			
Fentanyl	0.075	0.075	Cyclopentenyl Fentanyl	0.075	0.075			
2',5'-Dimethoxy 4'-Chloro Fentanyl	0.05	0.05	Cyclopentyl Fentanyl	0.075	0.075			
2',5'-Dimethoxy 4'-Ethyl alpha-Methyl			Cyclopropane Acetyl Fentanyl / Tigloyl					
Fentanyl	0.05	0.05	Fentanyl	0.075	0.075			
2',5'-Dimethoxy 4'-Éthyl Fentanyl	0.05	0.05	Cyclopropyl Norfentanyl	0.1	0.1			
2',5'-Dimethoxy 4'-Ethylthio Fentanyl	0.05	0.05	Despropionyl 2'-Fluoro ortho-Fluoro Fentanyl	0.75	0.75			
2',5'-Dimethoxy 4'-lodo alpha-Methyl Fentanyl	0.05	0.05	Despropionyl meta-Fluoro Fentanyl	0.25	0.25			
2',5'-Dimethoxy 4'-lodo Fentanyl	0.05	0.05	Despropionyl ortho-Fluoro Fentanyl	0.25	0.25			
2',5'-Dimethoxy 4'-Isopropylthio Fentanyl	0.05	0.05	Despropionyl ortho-Methyl Fentanyl	0.075	0.075			
2',5'-Dimethoxy 4'-Methyl Fentanyl	0.05	0.05	Despropionyl para-Fluoro Fentanyl	0.5	0.5			
2',5'-Dimethoxy 4'-Methylthio Fentanyl	0.05	0.05	Fentanyl Carbamate	0.075	0.075			
2',5'-Dimethoxy 4'-Nitro Fentanyl	0.05	0.05	Fentanyl Methyl Carbamate	0.25	0.25			
2',5'-Dimethoxy 4'-Nitro Fentanyl	0.05	0.05	Fentanyl Methyl Carbamate	0.25	0.25			

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City and County of San Francisco



Office of the **Chief Medical Examiner**

FORENSIC LABORATORY DIVISION

Component	Blood	Urine	Component	Blood	Urine
Furanyl Ethyl Fentanyl	0.25	0.25	Sufentanil	0.05	0.05
Furanyl Fentanyl	0.05	0.05	Tetrahydrofuran Fentanyl / Tetrahydrofuran		
Furanyl Fentanyl 3-Furancarboxamide	0.05	0.05	Fentanyl 3-Tetrahydrofurancarboxamide	0.025	0.025
Furanyl Norfentanyl	0.1	0.1	Tetrahydrothiophene Fentanyl	0.075	0.075
Heptanoyl Fentanyl	0.025	0.025	Thienyl Fentanyl	0.075	0.075
Hexanoyl Fentanyl meta-Chloro Fentanyl / para-Chloro Fentanyl	0.05 0.5	0.05 0.5	Thiofentanyl Thiophene Fentanyl	0.05 0.05	0.05 0.05
meta-Methyl Acetyl Fentanyl / para-Methyl	0.5	0.5	Thiophene Fentanyl 3-	0.05	0.05
Acetyl Fentanyl	0.25	0.25	Thiophenecarboxamide	0.05	0.05
meta-Methyl Furanyl Fentanyl / para-Methyl	0.20	0.20	Nitazenes	0.00	0.00
Furanyl Fentanyl	0.05	0.05	5-Amino Isotonitazene	0.25	0.25
Methacryl Fentanyl	0.075	0.075	5-Methyl Etodesnitazene	0.75	0.75
Methoxyacetyl Fentanyl	0.1	0.1	Butonitazene	0.1	0.1
Methoxyacetyl Norfentanyl	0.25	0.25	Clonitazene	0.75	0.75
N-(2-APB) Fentanyl	0.05	0.05	Etodesnitazene	0.075	0.075
N-(2C-B-FLY) Fentanyl	0.075	0.075	Etonitazene	0.5	0.5
N-(3C-B-FLY) Fentanyl	0.05	0.05	Flunitazene	0.25	0.25
N-(3-Ethylindole) Fentanyl	0.05	0.05	Isotonitazene	0.1	0.1
N-(6-APB) Fentanyl N-(6-Dihydrobenzofuranylethyl) alpha-Methyl	0.05	0.05	Metodesnitazene	0.5 0.25	0.5
Fentanyl	0.075	0.075	Metonitazene N-Desethyl Isotonitazene	0.25 Monitored	0.25 Monitored
N.N-Dimethylamindodespropionyl Fentanyl	0.075	0.075	N-Piperidinyl Etonitazene	0.5	0.5
N-Benzyl Furanyl Norfentanyl	0.05	0.05	N-Pyrrolidino Etonitazene	0.5	0.5
N-Benzyl Phenyl Norfentanyl	0.05	0.05	N-Pyrrolidino Metonitazene	0.25	0.25
N-Methyl Cyclopropyl Norfentanyl	0.05	0.05	N-Pyrrolidino Protonitazene	0.25	0.25
N-Methyl Norcarfentanil	0.05	0.05	Protonitazene	0.1	0.1
Norcarfentanil	0.075	0.075	Opium Poppy Production Compounds		
Norsufentanil	0.025	0.025	Papaverine	0.025	0.025
ortho-Chloro Fentanyl	0.5	0.5	Thebaine	0.25	0.25
ortho-Isopropyl Furanyl Fentanyl	0.05	0.05	Other Novel Synthetic Opioids		
ortho-Methyl Acetyl Fentanyl	1	1	2-Fluoro MT-45	0.05	0.05
ortho-Methyl Furanyl Fentanyl	0.05	0.05	2-Fluoro Viminol	0.1	0.1
ortho-Methyl Phenyl Fentanyl para-Bromo 4-ANPP	0.1 0.5	0.1 0.5	2-Methyl AP-237 AH-7921	0.05 0.1	0.05 0.1
para-Bromo Fentanyl	0.5	0.5	AP-237	0.075	0.1
para-Chloro Acetyl Fentanyl	0.5	0.5	AP-238	0.075	0.075
para-Chloro Butyryl Fentanyl / para-Chloro	0.0	0.0	Brorphine	0.1	0.1
Isobutyryl Fentanyl	0.075	0.075	Deschloro W-19	0.5	0.5
para-Chloro Cyclobutyl Fentanyl	5	5	Dipyanone	0.05	0.05
para-Chloro Cyclopentyl Fentanyl	0.25	0.25	Meperidine	0.075	0.075
para-Chloro Cyclopropyl Fentanyl	0.075	0.075	MT-45	0.075	0.075
para-Chloro Furanyl Fentanyl	0.05	0.05	Normeperidine	0.075	0.075
para-Chloro Furanyl Fentanyl 3-			Piperidyl Thiambutene	1	1
Furancarboxamide	0.05	0.05	W-15	0.75	0.75
para-Chloro Methoxyacetyl Fentanyl	0.075	0.075	W-18	0.1	0.1
para-Chloro Valeryl Fentanyl para-Fluoro 4-ANBP	0.05 0.05	0.05 0.05	W-19 Utopioids	0.75	0.75
para-Fluoro Acetyl Fentanyl	0.075	0.075	3,4-Ethylenedioxy U-47700	0.025	0.025
para-Fluoro Benzyl Fentanyl	0.075	0.075	3,4-Ethylenedioxy U-51754	0.025	0.025
para-Fluoro Crotonyl Fentanyl	0.1	0.1	4-Phenyl U-51754	0.05	0.05
para-Fluoro Cyclopentyl Fentanyl / para-	011	0	Deschloro U-47700	0.075	0.075
Methoxy Valeryl Fentanyl	1	1	N,N-Didesmethyl U-47700	0.5	0.5
para-Fluoro Cyclopropyl Fentanyl	0.1	0.1	N-Desmethyl U-47700	0.075	0.075
para-Fluoro Furanyl Fentanyl 3-			N-Methyl U-47931E	0.05	0.05
Furancarboxamide	0.075	0.075	Propyl U-47700	0.05	0.05
para-Fluoro Tetrahydrofuran Fentanyl	0.05	0.05	U-47700	0.05	0.05
para-Methoxy Acryl Fentanyl	0.075	0.075	U-47931E	0.1	0.1
para-Methoxy Butyryl Fentanyl / ortho-	0.075	0.075	U-48753E	0.25	0.25
Methoxy Butyryl Fentanyl	0.075	0.075	U-48800	0.075	0.075
para-Methoxy Fentanyl	0.25	0.25	U-49900	0.075	0.075
para-Methoxy Methoxyacetyl Fentanyl para-Methyl Tetrahydrofuran Fentanyl	0.05 0.05	0.05 0.05	U-50488 U-51754	0.25 0.075	0.25 0.075
Phenoxyacetyl Fentanyl	0.05	0.05	U-69593	0.075	0.075
Phenyl Fentanyl	0.05	0.05	Veterinary Tranquilizers	0.05	0.05
Remifentanil	0.075	0.075	Xylazine	0.025	0.025
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