

Cuyahoga County Regional Forensic Science Laboratory
11001 Cedar Avenue, Cleveland, OH 44106



TOXICOLOGY LABORATORY FINAL REPORT

Report Date: 07/07/2022
 CCRFSL Case: 2022-004778
 Agency Case: IN2022-00993
 Agency Representative: Thomas Gilson

Individual: Catchings, Da'Twuan Kain
 Submitting Agency: Cuyahoga County Medical Examiners Office
 Address: 11001 Cedar Avenue, Cleveland, OH 44106

Specimen(s) Received

Lab Item #	Description	Receipt/Accessioning Date
006	Femoral Blood 1	06/01/2022
007	Heart Blood 1	06/01/2022
008	Urine 1	06/01/2022
009	Bile 1	06/01/2022
010	Vitreous Humor 1	06/01/2022
011	Vitreous Humor 2	06/01/2022
012	Gastric Contents	06/01/2022
013	Long Term Storage 1	06/01/2022
014	Long Term Storage 2	06/01/2022
015	Liver 1	06/01/2022
016	Brain 1	06/01/2022

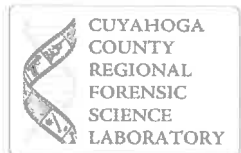
Item: 006: Femoral Blood 1

Drug Group/Class	Result	Quantitation
Basic Drugs by GC/MS		
Cotinine	Positive	
Cannabinoids Confirmation by LC-MS/MS		
Delta-9-THC	Positive	45 ± 7 ng/mL
11-OH-Delta-9-THC	Positive	6.6 ± 0.9 ng/mL
Delta-9-THCCOOH	Positive	
ELISA		
SEE CONFIRMATION		
Volatiles Screening and Confirmation by GC/FID		
Ethanol	Positive	0.109 ± 0.008 g/dL

Item: 008: Urine 1

Drug Group/Class	Result	Quantitation
Amines Confirmation by LC-MS/MS		
None Detected		
Basic Drugs by GC/MS		
Nicotine	Positive	
Cotinine	Positive	

Item: 010: Vitreous Humor 1



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Page 2 of 4

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Drug Group/Class	Result	Quantitation
Volatiles Screening and Confirmation by GC/FID		
Ethanol	Positive	0.117 ± 0.009 g/dL

COMMENTS:

All laboratory activities related to this case were completed between the date the evidence was received, as noted in this report, and the report's issue date. Specific activity dates are maintained in the case file for this case.

The result(s) in this report relate only to the items tested. Other specimens received will be held with the case (not tested).

'None Detected/Not Performed' in ELISA testing indicates that there were no positive signals in the ELISA (confirmation testing not performed).

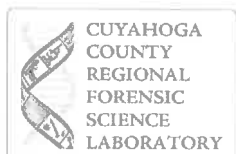
Where quantitative results have been provided, method uncertainty is determined at a CL of 95.45%. 'Mass Spectrum Match Only' denotes the finding has not been confirmed against the retention time of a reference standard.

Specimens submitted for this case will be held for one year prior to disposal. Please notify Toxicology if the specimens are to be held for a longer period of time.

This report shall not be reproduced, except in full, and with written approval of the Cuyahoga County Regional Forensic Science Laboratory.

Chief Toxicologist

Luigino Apollonio Ph.D.



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Page 3 of 4

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Analysis Summary

VOLATILES SCREENING AND CONFIRMATION by GC/FID: Ethanol, Methanol, Acetone, Isopropanol. **VOLATILES by GC/MS:** includes (but not limited to) Acetaldehyde, Acetone, Chloroform, Dichloromethane, Ethanol, Ethyl Acetate, Isopropanol, Methanol, Toluene

ACIDIC/NEUTRAL DRUGS by GC/MS and GC/FID: Butalbital, Caffeine, Carbamazepine, Carisoprodol, Ibuprofen, Levetiracetam, Meprobamate, Metaxalone, Pentobarbital, Phenobarbital, Phenytoin

CARBON MONOXIDE by CO-Oximetry: Carbon Monoxide (Carboxyhemoglobin)

GLYCOLS CONFIRMATION by GC/MS: Ethylene Glycol, Propylene Glycol

GABAPENTIN/PREGABALIN CONFIRMATION by LC-MS/MS: Gabapentin, Pregabalin

ELISA (Enzyme-Linked Immunosorbent Assay) SCREEN: Amphetamine (Target = d-Amphetamine); Barbiturates (Target = Pentobarbital); Benzodiazepines (Target = Alprazolam); Cannabinoids (Target = 11-nor- Δ -9-THC-COOH (marijuana metabolite)); Carisoprodol (Target = Carisoprodol); Cocaine Metabolite (Target = Benzoylcegonine); Fentanyl (Target = Fentanyl); Methamphetamine (Target = d-Methamphetamine); Oxycodone (Target = Oxycodone); Phencyclidine (Target = Phencyclidine); Tricyclic Antidepressants (Target = Nortriptyline); Methadone (Target = Methadone); Opiates (Target = Morphine); Zolpidem (Target = Zolpidem); Buprenorphine (Target = Buprenorphine)

BASIC DRUGS by GC/MS (screening and confirmation): includes common antidepressants, opioids/narcotic analgesics, CNS stimulants, antipsychotics, antiarrhythmics, dissociative anesthetics, antihistamines, hypnotics/sedatives/anxiolytics, muscle relaxants, cathinones, and other agents

ACETAMINOPHEN and SALICYLATES SCREEN by Colorimetry (Qualitative): Acetaminophen, Salicylates

PHENCYCLIDINE (PCP) CONFIRMATION by GC/MS: Phencyclidine

CLINICAL CHEMISTRIES: Sodium, Potassium, Chloride, Glucose, Urea (as VUN), Creatinine, Magnesium, Calcium, Lactate

COCAINE AND METABOLITES CONFIRMATION by GC/MS: Benzoylcegonine, Cocaine, Cocaethylene

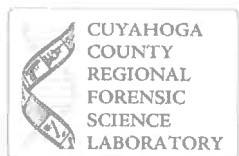
CANNABINOIDS CONFIRMATION by LC-MS/MS: Δ 9-THC, 11-OH- Δ 9-THC (marijuana metabolite), 11-nor- Δ 9-THC-COOH (marijuana metabolite).
CANNABINOIDS CONFIRMATION by GC/MS: TOTAL 11-nor- Δ 9-THC-COOH (marijuana metabolite)

OPIOIDS CONFIRMATION by GC/MS: Morphine, 6-Acetylmorphine (heroin metabolite), Codeine, Hydrocodone, Dihydrocodeine, Hydromorphone, Oxycodone, Oxycodone

BENZODIAZEPINES CONFIRMATION by LC-MS/MS: (\pm)-Zopiclone, 2-Hydroxyethylflurazepam, 3-Hydroxyflunitrazepam, 4-Hydroxyalprazolam, 7-Aminoclonazepam, 7-Aminoflunitrazepam, Alprazolam, Bromazolam, Clobazam, Clonazepam, Clonazolam, Delorazepam, Deschloroetizolam, Diazepam, Diclazepam, Estazolam, Etizolam, Flualprazolam, Flubromazepam, Flubromazolam, Flunitrazepam, Flunitrazolam, Flurazepam, Lorazepam, Lormetazepam, Meclonazepam, Methyclonazepam, Midazolam, N-Desalkylflurazepam, N-Desmethylclobazam, N-Desmethylflunitrazepam, Nitrazepam, Nitrazolam, Nordiazepam, Oxazepam, Phenazepam, Temazepam, Triazolam, Zaleplon, Zolpidem, α -Hydroxyalprazolam, α -Hydroxymidazolam and α -Hydroxytriazolam

AMINES CONFIRMATION by LC-MS/MS analysis: (\pm)-Amphetamine, beta-Phenethylamine, 3,4-Methylenedioxy-N-ethylamphetamine (MDEA), (\pm)-Methamphetamine, Methylenedioxyamphetamine (MDA), Methylenedioxymethamphetamine (MDMA), Phentermine, Ephedrine/Pseudoephedrine

FENTANYL and ANALOGUES CONFIRMATION by LC-MS/MS: N-Methyl norfentanyl, Norfentanyl, Norcarfentanil, AP-238, 2MAP-237, Methoxyacetyl fentanyl, Acetyl fentanyl, Beta-hydroxy fentanyl, Benzyl fentanyl, THF fentanyl, 4-ANPP, p-Methoxyacetyl fentanyl, Acryl fentanyl, Alfentanil, Fentanyl, para-Fluoro acryl fentanyl, para-Fluoro fentanyl, Cyclopropyl fentanyl, 2-Furanyl fentanyl, Fentanyl carbamate, (\pm)-trans-3-Methylfentanyl, Crotonyl fentanyl, Carfentanil, (\pm)-cis-3-Methylfentanyl, Butyryl fentanyl, para-Fluoroisobutyryl fentanyl (FIBF), Sufentanil, Phenyl fentanyl, Cyclopentenyl fentanyl, para-Fluorofuranyl fentanyl, Valeryl fentanyl, Isobutyryl fentanyl, Thiophene fentanyl, Isovaleryl fentanyl; plus Metonitazene, Brorphine, Isotonitazene, Protonitazene



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Page 4 of 4

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SENT TO REFERENCE LABS: Synthetic Cannabinoids, Cathinones, Cyanide, GHB, LSD, Psilocin, Valproic Acid, heavy metals (Antimony, Arsenic, Lead, Barium, Cadmium, Bismuth, Mercury, Selenium), or any other compounds not listed above

ABBREVIATIONS: UNS = Specimen unsuitable for testing; QNS = Quantity insufficient for analysis; < = less than; > = greater than; LRL = Lower reporting limit; C.L. = Confidence Level
UNITS FOR VOLATILES: 100 mg/dL = 0.100 g/dL = 0.100 g%. UNITS: 1 mg/L = 1000 µg/L = 1000 ng/mL

AUTOPSY REPORT

NAME: Da'Twuan Kain

CASE#: IN2022-00993

I hereby certify that I, Thomas Gilson, M.D., Medical Examiner, have performed an autopsy on the body of Da'Twuan Kain Catchings on the 31st day of May, 2022 commencing at 9:10 a.m. in the mortuary of the Cuyahoga County Medical Examiner's Office.

The body is identified by Medical Examiners tags attached to the left great toe. A hospital identification tag is also attached and a hospital identification bracelet is attached at the left ankle. Both bear the name "TraumaHOTELdcccx"

The body is received in a secured fashion.

EXTERNAL EXAMINATION:

The body is of a well-developed, well nourished, 72 inch, 172 pound, black man, whose appearance is consistent with the reported age of 22 years.

Wiry braided scalp hair measures up to 15" with multiple gray metal hair clips at the back. Mustache and beard hair measure up to ½" and 3" respectively. The irides are brown; the conjunctivae are without hemorrhage, petechiae, or jaundice. Contact lenses are present. Natural teeth are in the maxilla and mandible with chipping of the upper right lateral central incisor. The oral mucosa is atraumatic with intact frenula. The facial bones are intact to palpation. The ears and neck are unremarkable. The trachea is in the midline.

The anterior and posterior aspects of the torso are normally developed. There are striae at the hips and scarring of the buttocks. The upper and lower extremities are without palpable fractures. The external genitalia are apparently circumcised adult male with testes in the scrotal sac. The anus is unremarkable.

Postmortem Changes: Rigor mortis is well developed in the jaw and extremities. Fixed livor mortis is faintly present at the back except for the pressure points. The body is cold. There is early tache noire of the eyes where the lids are not closed.

Scars: There are multifocal irregular and short linear scars of all extremities. There is a 1" scar on the right side of the mid-back. Irregular scarring is at the buttocks. There is a 1" scar near the left elbow.

Tattoos: None.

Clothing: None. The body was examined by Trace Evidence prior to autopsy.

Therapeutic Procedures: An intraosseous catheter is in the left shin.

Injuries, Internal and External:

There is a gunshot wound of the trunk. Directions are given in standard anatomical planes.

Penetrating gunshot wound of trunk:

There is an entrance gunshot wound at the posterior aspect of the left flank located 23 ½" below the top of the head and 4 ½" left of the posterior midline. It is a ¼" defect with a circumferential margin of abrasion measuring 1/16". There is no soot or stippling of the skin adjacent to the entrance gunshot wound.

Path of the bullet:

After perforating the skin and subcutaneous soft tissue the bullet continues through the left flank and strikes the left 10th rib posterolaterally before perforating the lower aspect of the lower lobe of the left lung and striking the diaphragm with a grazing injury of the antihilar surface of the spleen (with herniation of the spleen into the left pleural cavity), and grazing the left lobe of the liver and perforating the diaphragm medially before perforating the pericardium and apex of the left heart (where there is a small transmural defect at the apex of the left ventricle) and exiting the pleural cavity through the left 5th intercostal space anteriorly. There is a contusion of the lingula of the left lung adjacent to the wound path and approximately 1200 ml of

blood in the right chest cavity with a scant amount of blood in the pericardial cavity and a small amount of blood adjacent to the liver injury in the peritoneal cavity.

The bullet lodged in the soft tissue of the left chest inferior and medial to the left nipple approximately 20 ½" below the top of head and 3 ½" to the left of midline. The bullet is palpable subcutaneously in an area of ill-defined contusion.

At the site of lodgment, a moderately deformed (mushroomed at the nose), apparently medium caliber, jacketed bullet is recovered. It is inscribed "DC" on the base and submitted to evidence.

The direction this bullet traveled is back to front, left to right and upward.

Just below the left eyebrow is a 1/8" red based abrasion. On the right upper extremity is an area of multiple red based abrasions on the anterior aspect predominantly at the forearm. These measure up to 3 ½". On the posterior aspect of the forearm and elbow are multiple linear red based abrasions measuring up to 2". Additionally, there are two 1" to 1 ½" violet contusions at the medial aspect of the right forearm. At the anterior aspect of the left upper extremity are multiple linear red based abrasions measuring up to 3 ½" with similar abrasions also noted on the posterior aspect of the forearm. There is a 1 ½" area of linear red based abrasions just above the left elbow on the posterior aspect of the upper arm. Near the right knee is a 2" linear red based abrasion and further down at the medial aspect of the right shin is a 1" x 1" area of yellow and red based abrasion. On the left shin is a 4" x 2" area of contused abrasions which lies above a 1" x ¼" area of red based abrasions further down the shin. On the left great toe is a 1" x 1" area of abraded violet contusion and there is a ¼" red based abrasion on the left second toe dorsally.

These injuries, having been described, will not be repeated.

INTERNAL EXAMINATION:

Head: The scalp has no contusion. The skull has no fracture. There is no epidural, subdural, or subarachnoid hemorrhage. The 1610 gram symmetrical brain has a normal distribution of cranial nerves and the cerebral vessels are without lesion. The white and gray matter are normally distributed; the ventricles are unremarkable. The substantia nigra is normally pigmented. The pons, medulla, and cerebellum are unremarkable.

Neck: The cervical vertebrae, hyoid bone, tracheal and laryngeal cartilages, and the paratracheal soft tissues are without lesion. The strap muscles of the neck are free of hemorrhage. The upper airway is not obstructed. The tongue is unremarkable. It is free of bite marks and contusions. Dissection of the musculature and bony structures of the posterior neck demonstrates no abnormality.

Body Cavities: The organ situs is normal. There are no abnormal fluid accumulations in the right chest cavity. There are no adhesions.

Cardiovascular System: The aorta is free of atherosclerosis. The venae cavae and pulmonary arteries are without thrombus or embolus. The 340 gram heart has a normal distribution of right predominant coronary arteries. The epicardial coronary vessels are free of atherosclerosis and thrombi. The myocardium is unremarkable except for injury. The endocardial surfaces and cardiac valves are likewise remarkable except for injury of the endocardium at the apex of the heart as noted above. The left ventricle is 1.2 cm. thick; the right ventricle is 0.3 cm. thick. The foramen ovale is patent.

Respiratory System: The right lung weighs 350 grams; the left lung weighs 290 grams. Both have unremarkable parenchyma except for injury. There is no significant aspiration pattern.

Liver, Gallbladder, and Pancreas: The liver weighs 1390 grams and in the areas away from injury has unremarkable brown parenchyma without fibrosis or discoloration. The gallbladder contains approximately 10 ml. of greenish-brown fluid bile without stones. The extrahepatic bile ducts are unremarkable. The pancreas is tan, lobulated and of the usual consistency. It is free of contusion, fibrosis and necrosis.

Hemic and Lymphatic System: The spleen weighs 80 grams and has unremarkable parenchyma aside from injury. There is no lymph node enlargement.

A small amount of residual tan thymic tissue is present at the superior mediastinum. It is normally lobulated and unremarkable.

Genitourinary System: The right kidney weighs 120 grams; the left kidney weighs 140 grams. Both have smooth subcapsular surfaces with well demarcated cortices and medullae. The renal parenchyma is pale. The pelves and vasculature are unremarkable. The ureters maintain uniform caliber into an unremarkable bladder containing approximately 150 ml. of pale clear yellow urine.

The prostate gland is not enlarged. The testes are unremarkable.

Endocrine System: The pituitary gland is not enlarged. The thyroid gland is reddish-brown and without nodularity. The adrenal glands are unremarkable externally and upon sectioning.

Digestive System: The esophagus and gastroesophageal junction are unremarkable. The stomach contains approximately 50 ml. of brown fluid without solid food or pills. The small intestine, appendix, and large intestine are unremarkable. The small intestine and large intestine are opened and reveal no foreign bodies.

Musculoskeletal System: There are no fractures of the vertebrae, clavicles, sternum, or pelvis. The ribs are unremarkable except for injury. The musculature is normally distributed. Dissection of the soft tissues of the wrists and ankles fails to reveal hemorrhage.

Toxicology: Specimens of blood, bile, urine, gastric contents, vitreous humor, brain tissue and liver tissue are submitted for toxicological analysis as indicated. A separate report will be attached.

Microscopy: Deferred.

OPINION: It is my opinion that Da'Twuan Kain Catchings, a 22 year-old black man, died as a result of a gunshot wound of the trunk which injured several of his internal organs. The decedent was shot during legal intervention.

CAUSE OF DEATH: Gunshot wound of trunk with injuries of spleen, liver, lung and heart.

MANNER OF DEATH: Homicide.



Thomas P. Gilson, M.D.
Medical Examiner

6/21/22
Date

**This report was reviewed
by another CCMEO
board-certified
forensic pathologist.**

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Dictated: 5/31/22
Transcribed: 6/1/22