



Office of the Medical Examiner

1490 Livingston Avenue
North Brunswick, NJ 08902

REPORT OF AUTOPSY

DECEDENT'S NAME: HOLOWACH, Christopher

CASE #: 13-23-0712

DATE OF EXAMINATION: 6/24/2023

TIME: 0945 Hours

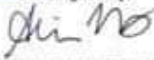
PATHOLOGICAL DIAGNOSES:

- I. Mixed drug intoxication including mitragynine:
 - a. Found unresponsive in at desk at work
 - b. Last seen alive approximately 10 minutes before with no complaints
 - c. Medical history of drug abuse (opioids/Xanax), recently clean with relapse 7/2022
 - i. No drugs or paraphernalia on scene
 - ii. Kratom supplements found at residence
 - d. Cerebral and pulmonary congestion and edema, moderate
 - e. Hepatosplenomegaly
 - f. Femoral blood:
 - i. Mitragynine: 1000 ng/mL
 - ii. Amphetamine: 210 ng/mL
 - iii. Bupropion: 120 ng/mL; hydroxybupropion: 530 ng/mL
 - iv. Diphenhydramine: 150 ng/mL
 - v. Meprobamate: 3.2 mcg/mL
- II. Hypertensive cardiovascular disease with biventricular cardiac hypertrophy
- III. Obesity (BMI = 35) and reported history of "borderline" diabetes mellitus
- IV. Lymphocytic thyroiditis, moderate
- V. No evidence of significant recent injury

CAUSE OF DEATH: Mixed drug intoxication including mitragynine

CONTRIBUTORY: Hypertensive cardiovascular disease

MANNER OF DEATH: Accident

DocuSigned by:

Allison Mautone, M.D.
Assistant Medical Examiner

8/15/2023 | 2:25 PM EDT

Date

To: **10057**
Middlesex Regional Medical Examiner's Office
Attn: Middlesex County MEO
1490 Livingston Avenue
North Brunswick, NJ 08902

Sex Male
Workorder 23247971

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Positive Findings:

Analyte	Result	Units	Matrix Source
Caffeine	Presump Pos	mcg/mL	001 - Femoral Blood
Cotinine	Presump Pos	ng/mL	001 - Femoral Blood
Nicotine	Presump Pos	ng/mL	001 - Femoral Blood
Bupropion	120	ng/mL	001 - Femoral Blood
Hydroxybupropion	560	ng/mL	001 - Femoral Blood
Meprobamate	3.2	mcg/mL	001 - Femoral Blood
Delta-9 THC	4.0	ng/mL	001 - Femoral Blood
Diphenhydramine	150	ng/mL	001 - Femoral Blood
Amphetamine	210	ng/mL	001 - Femoral Blood
Mitragynine	1000	ng/mL	001 - Femoral Blood
Cannabinoids	Presump Pos	ng/mL	002 - Urine
Amphetamines	Presump Pos	ng/mL	002 - Urine
Fentanyl / Metabolite	Presump Pos	ng/mL	002 - Urine

See Detailed Findings section for additional information

Testing Requested:

Test	Test Name
8052B	Postmortem, Expanded, Blood (Forensic)
8050U	Postmortem, Urine Screen Add-On (6-MAM Quantification only) (Forensic)