



# FORENSIC TOXICOLOGY REPORT

FAA Civil Aerospace Medical Institute  
Bioaeronautical Sciences Research Branch, Forensic Sciences  
P.O. Box 25082, Oklahoma City, Oklahoma 73125  
Ph: 405-954-6254, Fax: 405-954-3705



November 27, 2019

NAME [REDACTED]

CAMI # 201900197001

NTSB # CEN19FA259

LOCATION Sumner, IA

MODE Aviation

N # 6113C

DATE OF ACCIDENT 8/8/2019

DATE RECEIVED 9/11/2019

STATUS FATAL

SPECIMENS Blood (Femoral), Blood (Heart), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, Urine, Vitreous

PUTREFACTION Yes

## Screening tests employed

Blood (Femoral) - Carboxyhemoglobin (UV/VIS)  
Blood (Heart) - Cyanide (Color)  
Blood (Femoral) - Volatiles (HS GC/FID)  
Vitreous - Glucose (Chemical Analyzer)  
Urine - Glucose (Chemical Analyzer)  
Blood (Heart) - Drugs of abuse (Immunoassay)  
Blood (Heart) - General drug screen (LC/MS, GC/MS)

| <u>Analyte</u>    | <u>Result</u>      | <u>Specimen</u> | <u>Instrument</u> |
|-------------------|--------------------|-----------------|-------------------|
| Carboxyhemoglobin | 11 (%)             | Blood (Femoral) | UV/VIS            |
| Cyanide           | Not Detected       | Blood (Heart)   | COLOR             |
| Ethanol           | Not Detected       | Blood (Femoral) | HSGC/FID          |
| Glucose           | Not Detected       | Vitreous        | Analyzer          |
| Glucose           | Not Detected       | Urine           | Analyzer          |
| Hydrocodone       | 190 (ng/mL, ng/g)  | Blood (Heart)   | GC/MS             |
| Hydrocodone       | 145 (ng/mL, ng/g)  | Liver           | GC/MS             |
| Dihydrocodeine    | 41 (ng/mL, ng/g)   | Blood (Heart)   | GC/MS             |
| Dihydrocodeine    | 84 (ng/mL, ng/g)   | Liver           | GC/MS             |
| Fentanyl          | 20.1 (ng/mL, ng/g) | Blood (Heart)   | LC/MS             |
| Fentanyl          | 44.2 (ng/mL, ng/g) | Liver           | LC/MS             |

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## CONTINUATION

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| <u>Analyte</u> | <u>Result</u>       | <u>Specimen</u> | <u>Instrument</u> |
|----------------|---------------------|-----------------|-------------------|
| Norfentanyl    | 94 (ng/mL, ng/g)    | Blood (Heart)   | LC/MS             |
| Norfentanyl    | 192.6 (ng/mL, ng/g) | Liver           | LC/MS             |
| Trazodone      | 901 (ng/mL, ng/g)   | Blood (Heart)   | GC/MS             |
| Trazodone      | 2500 (ng/mL, ng/g)  | Liver           | GC/MS             |
| Atorvastatin   | Detected            | Blood (Heart)   | LC/MS             |
| Atorvastatin   | Detected            | Liver           | LC/MS             |
| Carvedilol     | Detected            | Blood (Heart)   | LC/MS             |
| Carvedilol     | Detected            | Liver           | LC/MS             |
| Ranitidine     | Detected            | Blood (Heart)   | LC/MS             |
| Ranitidine     | Not Detected        | Liver           | LC/MS             |
| Tamsulosin     | Detected            | Blood (Heart)   | LC/MS             |
| Tamsulosin     | Detected            | Liver           | LC/MS             |
| Yohimbine      | Detected            | Blood (Heart)   | LC/MS             |
| Yohimbine      | Detected            | Liver           | LC/MS             |
| Pantoprazole   | Detected            | Blood (Heart)   | LC/MS             |
| Pantoprazole   | Detected            | Liver           | LC/MS             |

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c=US, o=U.S. Government, ou=AMC, ou=AMC,  
cn=RUSSELL J LEWIS  
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Russell Lewis, Ph.D., F-ABFT  
Supervisor, Forensic Sciences  
Bioaeronautical Sci. Research Lab  
CAMI, FAA

This record may be releasable under the FOIA request 15 days after signature date, unless FOIA exemptions apply.

Results listed in this report relate to tested specimen(s) only. See Forensic Toxicology web site for testing methodology and cutoffs as well as drug, FOIA, and contact information.

<http://www.faa.gov/go/toxlab>