

SUPPLEMENTAL 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



May 14, 2020

NAME PILOT CAMI # 202000011001 NTSB # ERA20FA068
LOCATION Newborn, GA **MODE** Aviation **N #** 1612F
DATE OF ACCIDENT 1/6/2020 **DATE RECEIVED** 1/22/2020 **STATUS** FATAL

SPECIMENS *Bile, *Blood (Cavity), Brain, *Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, *Urine, *Vitreous
PUTREFACTION No

Screening tests employed

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

<u>Analyte</u>	<u>Result</u>	<u>Specimen</u>	<u>Instrument</u>
Ethanol	Not Detected	Muscle	HSGC/FID
Ethanol	Not Detected	Brain	HSGC/FID
Bupropion	Detected	Liver	LC/MS
Bupropion	Detected	Muscle	LC/MS
*Bupropion	Not Detected	Blood (Cavity)	LC/MS
*Bupropion	Not Detected	Urine	LC/MS
Hydroxybupropion	Detected	Liver	LC/MS
Hydroxybupropion	Not Detected	Muscle	LC/MS
*Hydroxybupropion	Not Detected	Blood (Cavity)	LC/MS
*Hydroxybupropion	Not Detected	Urine	LC/MS



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<u>Analyte</u>	<u>Result</u>	<u>Specimen</u>	<u>Instrument</u>
Citalopram	Detected	Liver	GC/MS
Citalopram	Not Detected	Muscle	GC/MS
*Citalopram	Detected	Blood (Cavity)	GC/MS
*Citalopram	Detected	Urine	GC/MS
N-Desmethylcitalopram	Detected	Liver	GC/MS
N-Desmethylcitalopram	Not Detected	Muscle	GC/MS
*N-Desmethylcitalopram	Detected	Blood (Cavity)	GC/MS
*N-Desmethylcitalopram	Detected	Urine	GC/MS
Diphenhydramine	Detected	Liver	GC/MS
Diphenhydramine	Not Detected	Muscle	GC/MS
*Diphenhydramine	Detected	Blood (Cavity)	GC/MS
*Diphenhydramine	Detected	Urine	GC/MS
Atorvastatin	Detected	Liver	LC/MS
Atorvastatin	Detected	Muscle	LC/MS
Sildenafil	Detected	Liver	LC/MS
Sildenafil	Detected	Muscle	LC/MS
Desmethylsildenafil	Detected	Liver	LC/MS
Desmethylsildenafil	Detected	Muscle	LC/MS
Diltiazem	Detected	Liver	LC/MS
Diltiazem	Detected	Muscle	LC/MS
*Carboxyhemoglobin	43 (%)	Blood (Cavity)	UV/VIS
*Cyanide	Not Detected	Blood (Cavity)	COLOR
*Glucose	Not Detected	Vitreous	Analyzer
*Glucose	Not Detected	Urine	Analyzer
*Salicylic Acid	Detected	Blood (Cavity)	LC/MS
*Salicylic Acid	Detected	Urine	LC/MS

Russell Lewis, Ph.D., F-ABFT
Supervisor, Forensic Sciences
Bioaeronautical Sci. Research Lab
CAMI, FAA



c=US, o=U.S. Government, ou=AMC, ou=AMC,
cn=RUSSELL J LEWIS
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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>

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<u>Analyte</u>	<u>Result</u>	<u>Specimen</u>	<u>Instrument</u>
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***Supplemental** Additional specimens received 3/26/20. Additional testing performed on these specimens. This report supercedes all other reports.



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
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