



U.S. Department
of Transportation
**Federal Aviation
Administration**

THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15
DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM
FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Monday, April 15, 2002

National Transportation Safety Board
8405 N.W. 53rd St., Suite B103
Miami, FL 33166

ACCIDENT # 0046 INDIVIDUAL#: 001 NAME: McNELLIS, MICHAEL H. MODE: AVIATION
DATE OF ACCIDENT 02/16/2002 DATE RECEIVED 02/20/2002 PUTREFACTION: Yes
N # N23PJ NTSB # ATL02FA048 CAMI REF # 200200046001
LOCATION OF ACCIDENT NEW SMYRNA BEACH, FL
SPECIMENS Blood, Brain, Heart, Kidney, Liver, Lung, Muscle

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin saturation was determined by spectrophotometry with a 10% cut off.

>> NO CARBON MONOXIDE detected in Blood

CYANIDE: The presence of cyanide was screened by Conway Diffusion. Positive cyanides are quantitated using spectrophotometry. The limit of quantitation of cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3ug/mL.

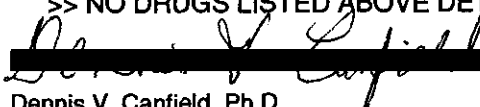
>> NO CYANIDE detected in Blood

VOLATILES: The volatile concentrations were determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanols were confirmed by Radiative Energy Attenuation.

>> 33 (mg/dL, mg/hg) ETHANOL detected in Muscle
>> 115 (mg/dL, mg/hg) ETHANOL detected in Blood
>> 101 (mg/dL, mg/hg) ETHANOL detected in Brain
>> 3 (mg/dL, mg/hg) ACETALDEHYDE detected in Blood
>> 8 (mg/dL, mg/hg) ACETALDEHYDE detected in Brain
>> 1 (mg/dL, mg/hg) N-PROPANOL detected in Blood

DRUGS: Immunoassay and chromatography are used to screen for legal and illegal drugs which include: amphetamine (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), antihistamines (0.020), meprobamate (0.100), methaqualone (0.100), and nicotine (0.050). The values in () are the threshold values in ug/mL used to report positive results. Values below this concentration are normally reported as not detected. GC/Mass Spec, HPLC/Mass Spec, or GC/FTIR, is used to confirm most positive results.

>> NO DRUGS LISTED ABOVE DETECTED in Blood


Dennis V. Canfield, Ph.D.
Manager, Toxicology and Accident
Research Laboratory

APR 26 2002

UN DATE: 04/09/02
RUN TIME: 0825

WUESTHOFF REFERENCE LABORATORY
6800 Spyglass Court
Melbourne, FL 32940

PAGE 1 of 4

APR 10 2002

PATIENT: MEV02-101 MCNELLIS, MICHAEL ACCT #: Q00447556 LOC: MEV-----U-# 0000945373
SSN #:
AGE/SX: 00M 00D/M STATUS: REG REF REG: 02/19/02
REG DR: MEDICAL EXAMINER, DISTRICT 7 DISCHARGE DATE:

Test	Result	Cutoff Conc mg/L
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QUAL DRUG SCR-B

SPECIMEN TYPE

BLOOD CLOT

GC/MS

CAFFEINE

IMMUNOASSAY SCR

CANNABINOIDS

NEGATIVE

0.050

COCAINE METAB

NEGATIVE

0.100

OPIATES

NEGATIVE

0.100

BENZO

NEGATIVE

0.100

BARBITURATE

NEGATIVE

0.100

TRICYCLICS

NEGATIVE

0.020

SALICYLATE

10.0

UNABLE TO PERFORM DUE TO INTERFERING SUBSTANCE(S) PRESENT IN THE SPECIMEN.

VOLATILES

SPECIMEN TYPE

BLOOD CLOT

ETHANOL

0.117

G/dL

VOLATILES

SPECIMEN TYPE

VITREOUS

ETHANOL

0.153

G/dl

ELECTROLYTE PAN

SPECIMEN TYPE

VITREOUS

UREA NITROGEN

27

mg/dl

CREATININE

1.0

mg/dl

SODIUM

128

mmol/L

POTASSIUM

25.4

mmol/L

CHLORIDE

112

mmol/L

GLUCOSE

2

mg/dl

OTHER

SPECIMEN TYPE

BLOOD CLOT

OTHER TEST

**IRON 100 mg/dL
USUALLY 37 - 66 mg/dL

**CARBON MONOXIDE 3 mcg/dL

**CARBOXYHEMOGLOBIN 1 % SATURATION

THIS RESULT IS A CALCULATED RESULT BASED ON THE IRON AND CARBON MONOXIDE ANALYSES. THE CALCULATED CARBOXY-HEMOGLOBIN PERCENT SATURATION UNDERESTIMATES THE ACTUAL CARBON MONOXIDE PERCENT SATURATION SINCE THE DETERMINATION ASSUMES THAT ALL IRON PRESENT IS CAPABLE OF BINDING CARBON MONOXIDE.

Specimens were intact upon receipt. Chain of custody, specimen security and integrity has been maintained. Testing has been performed as requested by Medical Examiner under their direction. All in-house analyses have been conducted by Wuesthoff Reference Laboratory employees who have received special training and education in the procedures performed and are Florida licensed as Medical Technologists.

Reviewed by: [Signature]

Date: 4/9/02

COPY TO
BOB
GIVN
4-10-02

RUN DATE: 04/09/02
RUN TIME: 0825

WUESTHOFF REFERENCE LABORATORY
6800 Spyglass Court
Melbourne, Fl 32940

PAGE 2

Patient: MEV02-101 MCNELLIS, MICHAEL

#Q00447556

SSN #:

(Continued)

****TESTING PERFORMED BY NATIONAL MEDICAL SERVICES, INC.,
WILLOW GROVE, PA**

FINAL REPORT - THIS COMPLETES REPORTING ON THIS CASE.

Specimens were intact upon receipt. Chain of custody, specimen security and integrity has been maintained. Testing has been performed as requested by Medical Examiner under their direction. All in-house analyses have been conducted by Wuesthoff Reference Laboratory employees who have received special training and education in the procedures performed and are Florida licensed as Medical Technologists.

Reviewed by: [Signature]

Date: 4/9/02

UN DATE: 04/09/02
RUN TIME: 0825

WUESTHOFF REFERENCE LABORATORY
6800 Spyglass Court
Melbourne, FL 32940

PAGE 3

PATIENT: MEV02-101 MCNELLIS, MICHAEL ACCT #: Q00447556 LOC: MEV U #: 0000945373
SSN #: AGE/SX: 00M 00D/M STATUS: REG REF REG: 02/19/02
REG DR: MEDICAL EXAMINER, DISTRICT 7 DISCHARGE DATE:

Test	Result	Cutoff Conc mg/L
<u>QUAL DRUG SCR-T</u>		
SPECIMEN TYPE	KIDNEY	
GC/MS	NO DRUGS DETECTED	
<u>IMMUNOASSAY SCR</u>		
CANNABINOIDS	NEGATIVE	0.050
COCAINE METAB	NEGATIVE	0.100
OPIATES	NEGATIVE	0.100
BENZO	NEGATIVE	0.100
BARBITURATE	NEGATIVE	0.100
SALICYLATE SCR	NEGATIVE	
<u>VOLATILES</u>		
SPECIMEN TYPE	KIDNEY	
ETHANOL	0.099	G/100G

FINAL REPORT - THIS COMPLETES REPORTING ON THIS CASE.

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Reviewed by: [Signature] Date: 4/9/02

UN DATE: 04/09/02
RUN TIME: 0827

WUESTHOFF REFERENCE LABORATORY
6800 Spyglass Court
Melbourne, Fl 32940

PAGE 4

PATIENT: MEV02-101 MCNELLIS, MICHAEL ACCT #: Q00447556 LOC: MEV U #: 0000945373
SSN #: AGE/SX: 00M 00D/M STATUS: REG REF REG: 02/19/02
REG DR: MEDICAL EXAMINER, DISTRICT 7 DISCHARGE DATE:

Test	Result	Cutoff Conc mg/L
<u>QUAL DRUG SCR-T</u>		
SPECIMEN TYPE	THIGH MUSCLE	
GC/MS	NO DRUGS DETECTED	
<u>IMMUNOASSAY SCR</u>		
CANNABINOIDS	NEGATIVE	0.050
COCAINE METAB	NEGATIVE	0.100
OPIATES	NEGATIVE	0.100
BENZO	NEGATIVE	0.100
BARBITURATE	NEGATIVE	0.100
TRICYCLICS	NEGATIVE	0.050
SALICYLATE SCR	NEGATIVE	
<u>VOLATILES</u>		
SPECIMEN TYPE	THIGH MUSCLE	
ETHANOL	0.101	G/100G
<u>OTHER</u>		
SPECIMEN TYPE	THIGH MUSCLE	
OTHER TEST		
**IRON 34 mcg/g		
NO REFERENCE DATA IS PROVIDED FOR THE SPECIMEN TYPE SUBMITTED.		
**CARBON MONOXIDE NONE DETECTED		
**CARBOXYHEMOGLOBIN NONE DETECTED		
THIS RESULT IS A CALCULATED RESULT BASED ON THE IRON AND CARBON MONOXIDE ANALYSES. THE CALCULATED CARBOXY-HEMOGLOBIN PERCENT SATURATION UNDERESTIMATES THE ACTUAL CARBON MONOXIDE PERCENT SATURATION SINCE THE DETERMINATION ASSUMES THAT ALL IRON PRESENT IS CAPABLE OF BINDING CARBON MONOXIDE.		
**TESTING PERFORMED BY NATIONAL MEDICAL SERVICES, INC., WILLOW GROVE, PA		
FINAL REPORT - THIS COMPLETES REPORTING ON THIS CASE.		

Specimens were intact upon receipt. Chain of custody, specimen security and integrity has been maintained. Testing has been performed as requested by Medical Examiner under their direction. All in-house analyses have been conducted by Wuesthoff Reference Laboratory employees who have received special training and education in the procedures performed and are Florida licensed as Medical Technologists.

Reviewed by:



Date:

4/9/02



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DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM
FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Wednesday, August 14, 2002

National Transportation Safety Board
8405 N.W. 53rd St., Suite B103
Miami, FL 33166

ACCIDENT # 0046 INDIVIDUAL#: 002 NAME: LEEDOM, ROBIN MODE: AVIATION
DATE OF ACCIDENT 02/16/2002 DATE RECEIVED 02/20/2002 PUTREFACTION: No
N # N23PJ NTSB # ATL02FA048 CAMI REF # 200200046002
LOCATION OF ACCIDENT New Smyrna Beach, FL
SPECIMENS Heart, Liver, Lung, Muscle

FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

CARBON MONOXIDE: The carboxyhemoglobin saturation was determined by spectrophotometry with a 10% cut off.

>> NOT PERFORMED

CYANIDE: The presence of cyanide was screened by Conway Diffusion. Positive cyanides are quantitated using spectrophotometry. The limit of quantitation of cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3ug/mL.

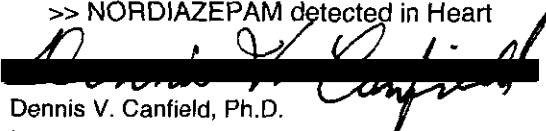
>> NOT PERFORMED

VOLATILES: The volatile concentrations were determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanolols were confirmed by Radiative Energy Attenuation.

>> NO ETHANOL detected in Heart
>> NO ETHANOL detected in Muscle

DRUGS: Immunoassay and chromatography are used to screen for legal and illegal drugs which include: amphetamine (0.010), opiates (0.010), marihuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), antihistamines (0.020), meprobamate (0.100), methaqualone (0.100), and nicotine (0.050). The values in () are the threshold values in ug/mL used to report positive results. Values below this concentration are normally reported as not detected. GC/Mass Spec, HPLC/Mass Spec, or GC/FTIR, is used to confirm most positive results.

>> FLUOXETINE detected in Liver
>> NORFLUOXETINE detected in Liver
>> NORDIAZEPAM detected in Liver
>> NORDIAZEPAM detected in Lung
>> NORDIAZEPAM detected in Heart


Dennis V. Canfield, Ph.D.
Manager, Toxicology and Accident
Research Laboratory

AUG 18 2002
16 2002