Sonoma County Sheriff's Office

Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #: **17-0000510**

INCIDENT INFORMATION

LAW ENFORCEMENT AGENCY WITH JURISDICTION:	REPRESENTATIVE TITLE AND NAME:	AGENCY CR #: ☐ N/A
Rohnert Park Police Services	**Detective John Kempf**	**17-0001973**

DATE/TIME RECEIVED:	NAME AND AGENCY OF PERSON REQUESTING DEPUTY CORONER: (Officer, Nurse, EMS, etc.)
05/12/2017 20:30	**Detective Jayson Fowler, Sonoma County Sheriff's Office**

MANNER OF DEATH:	DONOR CASE:	DONOR BANK NAME:	REMOVAL SERVICE:
Homicide	**No**	**N/A**	**NBMS**

DECEDENT INFORMATION

DECEDENT'S NAME (FIRST, MIDDLE, LAST):	DOB:	AGE:	ETHNICITY:	GENDER:
Branch Christopher Wroth	[redacted]	**41 yrs**	**White**	**M**

DECEDENT'S RESIDENCE ADDRESS: (Street, City, State, Zip)	HOME PHONE#:
[redacted]	[redacted]

DRIVER'S LICENSE NUMBER:	DL STATE:	SSN#:
[redacted]	**CA**	[redacted]

MARITAL STATUS:	DISPOSITION OF DECEDENT'S PERSONAL PROPERTY:
Unknown	**Booked In Evidence**

NEXT OF KIN NAME / ADDRESS:	RELATIONSHIP TO DECEDENT:	PHONE #'S:
[redacted]	**Brother**	/ [redacted]

NEXT OF KIN NOTIFIED?	IF NOTIFIED, BY WHOM:	DATE / TIME NOTIFIED:	AGENCY:
Yes	**L. Bottomley #2234**	**05/12/2017 22:30**	**Sonoma County Coroner's Office**

DEATH INFORMATION

PLACE OF DEATH (Facility Name or Address Location): ☐ SAME AS DECEDENT'S RESIDENCE	☒ RESUSCITATIVE EFFORTS WERE MADE ☐ DEATH WAS OBVIOUS
[redacted] **Redwood Drive** [redacted] **Rohnert Park, CA 94928**	

DATE OF DEATH:	PRONOUNCED BY: (Title, Name, ID #, Agency)	LOCATION OF DECEDENT (MORTUARY NAME): ☐ CMF
05/12/2017 [Actual]	**Medic Kenneth Chaffee, 761, American Medical Response**	**Pleasant Hills Mortuary**
TIME OF DEATH:	HOW WAS DECEDENT IDENTIFIED:	WHO MADE IDENTIFICATION (NAME / RELATIONSHIP):
16:00 [Actual]	**Visually - Photo**	**L. Bottomley #2234 / Detective**

DATE/TIME LAST KNOWN ALIVE:	BY WHOM (NAME):	ADDRESS:	PHONE#:
5/12/2017 15:55	**RPDPS Officers**	**500 City Center Drive, Rohnert Park, CA 94928**	**(707) 584-2600**

CLOTHING DESCRIPTION: **None/Nude**

MEDICAL INFORMATION

DECEDENT'S PRIMARY PHYSICIAN: ☒ UNKNOWN	PHYSICIAN OFFICE #:	DATE LAST SEEN: ☐ UNK	PHYSICIAN WILL SIGN D.C.:
			coroner

MEDICAL / SOCIAL HISTORY: ☒ UNKNOWN

FOUND MEDICATIONS: ☒ NONE LOCATED

DRUG/ALCOHOL HISTORY: ☐ UNKNOWN
Noted history in CrimNet of drug and alcohol use.

If decedent's death was the result of an accident / injury, please complete the following:

DATE & TIME OF INJURY:	LOCATION OF INJURY (ADDRESS):	CITY:	ZIP	COUNTY:
N/A	**N/A**	**N/A**	**N/A**	**N/A**

DESCRIBE HOW INITIAL INJURY OCCURRED: ☐ Motor Vehicle Accident - DECEDENT WAS: ☐ Driver ☐ Passenger ☐ Pedestrian - DECEDENT WAS WEARING: ☐ Seatbelt ☐ Helmet
N/A

VEHICLE MAKE / MODEL / COLOR:	LICENSE PLATE NUMBER:	DISPOSITION (TOW COMPANY NAME):
/ N/A	**N/A**	**N/A**

SYNOPSIS

The decedent was contacted by Rohnert Park Department of Public Safety officers at the [redacted]. During a subsequent struggle with law enforcement, the decedent became unresponsive and stopped breathing. Resuscitative efforts were made to no avail.

The decedent's body was transported to the Sonoma County Morgue Facility, where he was registered and

REPORTING EMPLOYEE:	ID #:	APPROVED BY:	DATE:
L. BOTTOMLEY / CORONER DETECTIVE	**1102234**	**A. MANCILLA / LIEUTENANT**	**12/11/2017**

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

scheduled for a postmortem examination by a Forensic Pathologist.

The cause of death was determined to be: “Cardiopulmomary arrest immediately after a struggle with law enforcement, while under the influence of methamphetamine, (minutes)."

I mannered this death as a “Homicide,” which was consistent with the circumstances and cause.

Additionally, it should be noted the mannering of death as a "Homicide" neither indicates nor implies criminal intent. The determination of intent lies within the legal process.

CONTACTS

BROTHER [redacted] [redacted] **M**
Role Name DOB Sex Race

[redacted]
Address Telephone Height Weight

[redacted]
Employer Work Phone Cell Phone Occupation

[redacted]
State/DL#

MOTHER [redacted] [redacted] **F**
Role Name DOB Sex Race

[redacted]
Address Telephone Height Weight

[redacted]
Employer Work Phone Cell Phone Occupation

State/DL#

Sonoma County Sheriff's Office
Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

NARRATIVE

SCENE DESCRIPTION:

This death occurred in room [redacted] of the [redacted] located at [redacted] Redwood Drive in Rohnert Park, CA. This hotel is a two story, multi unit complex, located on the north/east corner of Rohnert Park Expressway and Redwood Drive. Room [redacted] is located on the second floor of the west side of the complex facing Redwood Drive. Room [redacted] is a single king size bed room with a bathroom. I noted the screen had been removed from the open front window and was bent up and lying against a wall inside the room. The bed was pushed up against the east wall and all of the sheets and blankets were balled up on top. There were numerous personal items and medical waste strewn about the room. The heater/AC cover was off of the unit, bent up, and lying on the floor nearby.

BODY CONDITION/POSITIONING:

The decedent was located lying on his back just inside the front door of the room, half on the laminate floor and half on the carpet. The decedent was completely nude. The decedent's legs were straight down and pointing toward the north and his head was pointing toward the south. The decedent's hands were handcuffed behind his back and he was lying on top of them. The decedent had an intubation tube in place in his mouth. There were defibrillator pads affixed to his right upper chest and left side. There was an Intraosseous line affixed to the decedent's right shin.

The decedent had numerous abrasions and bruising on his left shin, knee and upper thigh. The decedent also had abrasions and bruising on his right shin and knee. The decedent had slight abrasions on his chin, left cheek and to the right side of his right eye. There were abrasions on his right upper arm and shoulder. There was a copper wire lying across the decedent's lower abdomen/groin area and it was balled up to his left side on the floor. Attendants [redacted] and [redacted] assisted me by rolling the decedent onto his right side so that I could view his entire back side. I noted what appeared to be two skin defects, close together, on the decedent's lower right back. The decedent also had abrasions on his right forearm. The decedent was cool to the touch and rigor mortis was present, as was lividity consistent with positioning.

NARRATIVE:

On 05/12/2017, at approximately 2030 Hrs, I was contacted by phone by VCI Detective Fowler of the Sonoma County Sheriff's Office regarding the death of a subject at the [redacted] at [redacted] Redwood Drive in Rohnert Park. Detective Fowler told me the following in substance: At approximately 1511 Hrs, Rohnert Park Police Services officers were dispatched to room [redacted] at the [redacted] on a call of a subject acting strange. The subject's actions were witnessed by hotel staff, as well as security.

Upon arrival of the primary officer and his cover, they responded to room [redacted], where they contacted the decedent. The decedent did in fact appear to be acting strangely and claimed to be covered in chemicals, although he did not appear to be. Officers were able to identify the decedent and learned he had a misdemeanor warrant. Officers were attempting to get the decedent to get dressed, when he became resistive. The decedent actively resisted against officers as they were attempting to take him into custody. During the struggle, one officer deployed his Taser in an attempt to subdue the decedent. Officers were eventually able to wrestle the decedent into handcuffs.

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

After the decedent was taken into custody, he was lying face down on the carpet. Officers noted the decedent did not appear to be responsive or breathing. CPR was started on the decedent and fire and medical arrived to the scene and took over resuscitative efforts. After the decedent failed to respond to the life saving efforts, AMR Medic Chaffee determined he was deceased. The decedent's time of death was determined by Medic Chaffee to be 1600 Hrs.

At approximately 2230 Hrs. Detective Fowler and I drove to [redacted] in Forestville and made contact at the door with [redacted] advised he was the brother of the decedent. He advised he was the only direct family member of the decedent currently at home. When we asked [redacted] if we could come in and talk with him, he refused to let us in. We asked [redacted] where his mother was. He would only advise that she was not there and he would not tell us where she was. [redacted] became evasive and advised he did not want to talk with us. I advised [redacted] that his brother was deceased in Rohnert Park and we needed to speak with his mother. [redacted] was initially taken aback, but told us he was done talking with us and he would get a hold of his mother. We left both of our information with [redacted] and I left a Coroner's Pamphlet. [redacted] called Detective Fowler shortly after we left and spoke with him for a short period of time.

On 05/13/2017, at approximately 0000 Hrs, I was notified by Detective McKinnon he had authored a search warrant for room [redacted] of the [redacted] and had it signed by a judge. I responded to the [redacted] and signed into the scene at 0025 Hrs. I noted the following regarding the decedent and the scene: The decedent was located lying on his back just inside the front door of the room, half on the laminate floor and half on the carpet. The decedent was completely nude. The decedent's legs were straight down and pointing toward the north and his head was pointing toward the south. The decedent's hands were handcuffed behind his back and he was lying on top of them. The decedent had an intubation tube in place in his mouth. There were defibrillator pads affixed to his right upper chest and left side. There was an Intraosseous line affixed to the decedent's right shin.

The decedent had numerous abrasions and bruising on his left shin, knee and upper thigh. The decedent also had abrasions and bruising on his right shin and knee. The decedent had slight abrasions on his chin, left cheek and to the right side of his right eye. There were abrasions on his right upper arm and shoulder. There was a copper wire lying across the decedent's lower abdomen/groin area and it was balled up to his left side on the floor.

I photographed the scene and subsequently downloaded the digital photos to a CD and booked it into evidence (LB-1). In addition, I uploaded the photographs into this case file.

I contacted [redacted] with Northbay Mortuary Services and requested a contract removal. [redacted] along with Attendant [redacted] responded to [redacted] Redwood Drive [redacted] and assisted me by rolling the decedent onto his right side so that I could view his entire back side. I noted what appeared to be two skin defects, close together, on the decedent's lower right back. The decedent also had abrasions on his right forearm. The decedent was cool to the touch and rigor mortis was present, as was lividity consistent with positioning. [redacted] and [redacted] took possession of the decedent and placed him in a body bag and secured it with lock #21917. They subsequently transported him to the Sonoma County Morgue Facility where he was registered and scheduled for a postmortem examination with a Forensic Pathologist. I followed [redacted] to the CMF to retain chain of custody of the decedent.

SUPPLEMENTAL REPORT: By Sgt. Adrian Mancilla #1309

REPORTING EMPLOYEE:	ID #:	APPROVED BY:	DATE:
L. BOTTOMLEY / CORONER DETECTIVE	**1102234**	**A. MANCILLA / LIEUTENANT**	**12/11/2017**

Sonoma County Sheriff's Office
Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

On 5/13/2017, at approximately 1300 hours, I received a phone call from Coroner Detective Rountree regarding this investigation. Detective Rountree advised me Defense Attorney Issac Schwaiger requested a phone call from a coroner detective. I advised Detective Rountree to call Schwaiger back and tell him I would call him shortly.

I later called Schwaiger and he told me he was representing the decedent's family regarding this death investigation. He asked if the autopsy was scheduled for Monday, May 15, 2017 and requested Forensic Pathologist Dr. Jay Chapman be present for the autopsy. I told him the examination was scheduled for May 15th and based upon Government Code Section 27491 and our department policy, I was denying his request.

I later learned from Captain C. Shubel that Schwaiger was attempting to obtain a court order to allow Dr. Chapman to be present during the anticipated autopsy.

On 5/14/2017, at approximately 2200 hours I received a voicemail message from Schwaiger stating Judge Elliot Daum had signed a court order prohibiting our office from conducting an autopsy on the decedent. Schwaiger also called me the following morning advising me of the order.

On 5/15/2017, at approximately 0930 hours, I attended a court hearing in Judge Daum's courtroom. Judge Daum issued a court order stating the autopsy could be conducted, but it needed to be video and audio recorded. I learned in the court hearing that Dr. Chapman had indicated in his Declaration he had reservations with Forensic Pathologist Dr. Kimi Verilhac's experience with autopsies surrounding the decedent's death.

I later spoke to Dr. Verilhac about performing the autopsy. Dr. Verilhac recused herself from performing the autopsy after consulting with her employer, Regional Pathology and Autopsy Services, who the County has a contract with to perform autopsy services.

The County has several contracts with various pathologists to perform forensic pathology services, to include Board Certified Forensic Pathologist Dr. Arnold Josselson. I spoke to Dr. Josselson regarding this case by telephone. Dr. Josselson agreed to conduct the autopsy, but could not perform the autopsy until the morning of May 17, 2017. Since there was going to be a delay in the autopsy, we discussed the evidentiary value of conducting a blood draw on the decedent to preserve his blood for toxicology testing. Dr. Josselson also advised me the decedent's brain would most likely be sent to a neuropathologist for further analysis. Dr. Josselson authorized the Sonoma County Sheriff-Coroner's Office to cut the seal that was located on the decedent's body bag and perform a blood draw.

At approximately 1508 hours, CSI Detective M. Baraz video and audio recorded Forensic Assistant C. Castaneda transport the decedent into the autopsy room. Detective Baraz photographed the lock that was attached to the body bag, #21917. Forensic Assistant Castaneda cut the lock and opened the body bag. She drew blood from the decedent as directed by Dr. Josselson. At approximately 1516 hours, Forensic Assistant Castaneda completed the blood draw and resealed the body bag with lock #21930.

I later advised Schwaiger that the decedent's brain was more than likely going to be sent to a neuropathologist and that analysis would take several months. The decedent's body would be releasable after the exam for final disposition, but his brain would be releasable at a later date. Schwaiger acknowledged and said he understood.

REPORTING EMPLOYEE:	ID #:	APPROVED BY:	DATE:
L. BOTTOMLEY / CORONER DETECTIVE	**1102234**	**A. MANCILLA / LIEUTENANT**	**12/11/2017**

Sonoma County Sheriff's Office
Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

SUPPLEMENTAL REPORT: By Coroner Detective B. Kidder #1740

On 5/15/2017, at approximately 1800 hours, Coroner Detective T. Vellis and I took full body x-rays of the decedent. When the decedent was removed from refrigerated storage, I noted the body bag was locked with a blue plastic lock bearing serial number 21930. Once we were finished taking the x-rays, I confirmed the lock was still in tact, and the decedent was placed back into refrigerated storage. I downloaded the x-ray images onto two separate CD's. Detective Vellis subsequently uploaded the x-ray images into the "Docs" tab in the Cohero Record Management System and he provided the CD to the pathologist prior to the postmortem examination. I booked the other CD containing the x-ray images into the evidence locker at the County Morgue Facility.

End of supplement.

SUPPLEMENT: by Detective L. Bottomley #2234

On 05/17/2017, Forensic Pathologist Dr. Arnold Josselson conducted the decedent's postmortem examination. At the conclusion of the examination, Dr. Josselson had not determined the cause of death and he stated the case was "pending toxicology."

On 05/18/2017, at approximately 1140 hours, Forensic Assistant C. Castaneda released the decedent's body to [redacted]. [redacted] took possession of the decedent's body and subsequently removed him from the Sonoma County Morgue Facility.

On 06/02/2017, I received the final toxicology report submitted by NMS Labs. I noted the decedent tested positive for Amphetamine (320 ng/mL) and Methamphetamine (820 ng/mL). Please refer to NMS Labs final toxicology report for their complete findings.

On 12/01/2017, at approximately 0900 hours, I reviewed the final postmortem examination report submitted by Dr. Josselson. In his report, Dr. Josselson determined the cause of death to be: "Cardiopulmomary arrest immediately after a struggle with law enforcement personnel, while under the influence of methamphetamine, (minutes)." Dr. Josselson also submitted the decedent's brain to Forensic Pathologist/Neuropathologist Dr. Bennet Omalu for analysis, see his attached report for his complete findings.

Based on my investigation, review of the case file in its entirety, review of VCI Detective Jesse Hanshew's Critical Incident Protocol report, as well as reviewing the involved officer's body worn camera footage of the incident, I noted the following:

05/12/2017, at approximately 1511 Hrs, RPDPS officers were dispatched to the [redacted] to check the welfare of a subject, later determined to be the decedent. Upon arrival of Officer D. Wattson, he located the decedent in room [redacted]. The decedent was nude, and was acting strange and paranoid. Officer Wattson had learned the decedent had an active warrant for his arrest. Officer D. Wattson engaged the decedent in conversation and attempted to get him to put his clothing on. The decedent had trouble tracking what Officer D. Wattson was saying, was very agitated and complained his clothing was tainted with some type of chemical(s). The decedent at one point advised he did not want to wear his pants as they were "Saturated Drug Pants."

Officer S. Huot arrived to the scene after Officer D. Wattson. Both Officers were engaging the decedent in casual and calm conversation, attempting to keep him calm and get him to comply. At a certain point during the

contact, it became apparent the decedent was not going to put his clothing on, so Officers D. Wattson and S. Hout moved to safely handcuff the decedent. It was at this point the decedent became physically resistive in his attempt to not be handcuffed.

During the altercation, the decedent failed to comply with continued orders by Officers D. Wattson and S. Hout. Officers D. Wattson and S. Hout took the decedent to the ground during their attempt to take him into custody. Further RPDPS officers (Sgt. E. Matzen, Officer M. Werle, and Officer F. Hartnett) responded to the scene to assist. During the struggle, Officer M. Werle delivered three body strikes to the decedent with his closed fist, in an attempt to gain compliance from him. In addition, Officer D. Wattson deployed his Taser X26, also in an attempt to gain compliance from the decedent. A subsequent review of Officer D. Wattson's Taser firing log was conducted by Sonoma County Sheriff's Office Deputy E. Dickey. The log showed there were six trigger pull activations for the following durations: Five seconds; Five seconds; One second; Four seconds; Five seconds; Five seconds.

The decedent was eventually handcuffed and was lying face down on the floor of the hotel room as officers composed themselves. Shortly after, the officers noticed the decedent became unresponsive. Officers checked him physically and determined he had stopped breathing. Emergency medical personnel was summoned via dispatch and officers started life saving efforts. Fire and medical arrived and took over resuscitative efforts. Resuscitative efforts were not successful and he was declared dead on scene.

The autopsy report submitted by Dr. Josselson showed a cause of death of: “Cardiopulmonary arrest immediately after a struggle with law enforcement personnel, while under the influence of methamphetamine, (minutes)." In addition, the toxicology results obtained via the examination showed the following substances present: Amphetamine, Methamphetamine, and Delta-9 THC.

In reviewing the decedent’s medical records from prior incidents, I noted some similarities in the decedent’s actions in the six months leading up to this incident. In a 12/08/2016 incident, the decedent was contacted by Sonoma County Sheriff’s Deputy J. Fomasi in a creek wearing only his boxer underwear. The decedent was in an altered mental status at that time. A caller had reported the decedent was “acting very odd” and that he was “hitting the ground with his fists.” The caller advised at the time she was “very scared.” The decedent was transported to Petaluma Valley Hospital at the time by ambulance.

Medical records showed the decedent indicated to Petaluma Valley Hospital medical staff that he [redacted] Medical records from that incident [redacted]

Sonoma County Sheriff's Office
Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

[redacted]

[redacted]

In addition, Dr. [redacted] also noted the Additional Instructions to the decedent:

[redacted]

Dr. [redacted] then provided the decedent with a referral to the Petaluma Health Center [redacted]

In another incident on 04/01/2017, the decedent was brought into Petaluma Valley Hospital by Petaluma PD officers for a medical clearance. They had responded to a call of a naked man collecting goose eggs in Shollenberger Park. The decedent was in an altered mental status at that time as well. He told officers at the time he was "in training."

Dr. [redacted] noted in his Decision Making Course at the time:

[redacted]

In addition, Dr. [redacted] also noted the Additional Instructions to the decedent:

[redacted]

REPORTING EMPLOYEE:	ID #:	APPROVED BY:	DATE:
L. BOTTOMLEY / CORONER DETECTIVE	**1102234**	**A. MANCILLA / LIEUTENANT**	**12/11/2017**

Sonoma County Sheriff's Office
Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

Detective Fowler had a conversation with the decedent's brother [redacted] during the Critical Incident Protocol investigation. [redacted] had questions for Detective Fowler regarding his brother's death. During that conversation, [redacted] told Detective Fowler the decedent had a "drug problem." When Detective Fowler questioned [redacted] further about the decedent's drug problem, [redacted] advised he just knew that the decedent had previously been arrested a couple times for drugs.

In reviewing the final toxicology report submitted by NMS Labs, I noted the decedent's Methamphetamine level was 820 ng/mL. NMS Labs "Reference Comments" indicate "Blood levels of 200-600 ng/mL have been reported in methamphetamine abusers who exhibited violent and irrational behavior. High doses of methamphetamine can also elicit restlessness, confusion. Hallucinations, circulatory collapse and convulsions." The decedent displayed the above mentioned symptoms as he was speaking to Officers D. Wattson and S. Hout. The decedent had a documented history of Methamphetamine use from his family and displaying such odd behavior from chronic Methamphetamine use from law enforcement and medical records.

In this death investigation, law enforcement personnel were attempting to subdue the decedent after he became aggressive towards them. During the arrest process, law enforcement personnel used personal body weapons, a Taser X26 was used in an attempt to subdue the decedent, the decedent was eventually handcuffed after the altercation, following the arrest process the decedent became unresponsive and subsequently died. It was also discovered through the NMS Labs report, that the decedent's toxicology levels were increased, which explained his odd behavior.

The National Association of Medical Examiners "A Guide for Manner of Death Classification," states "Deaths due to positional restraint induced by law enforcement personnel or to choke holds or other measures to subdue may be classified as homicide. In such cases, there may not be intent to kill, but the death results from one or more intentional, volitional, potentially harmful acts directed at the decedent (without consent, or course)." The investigation showed that Officers D. Wattson and S. Hout used "measures to subdue" during the arrest process and successfully handcuffed the decedent, briefly placing him in a "positional restraint" after a violent confrontation.

While updating the decedent's Death Certificate in the EDRS database system with Dr. Josselson's causes, EDRS was not allowing me to enter the exact cause of death as written by Dr. Josselson. We contacted EDRS and was advised the system only allows a set amount of characters to be entered into the system. We contacted Dr. Josselson and explained the circumstances to him. Dr. Josselson amended his cause of death from, "Cardiopulmomary arrest immediately after a struggle with law enforcement personnel, while under the influence of methamphetamine, (minutes)" to "Cardiopulmomary arrest immediately after a struggle with law enforcement, while under the influence of methamphetamine, (minutes)." Only the word "personnel" was amended.

Based on all of the information that was presented to me throughout this investigation, I mannered this death as a "Homicide**,"** which was consistent with the circumstances and cause. I amended the decedent's Death Certificate to reflect the cause of death indicated by Dr. Josselson (see attached).

Additionally, it should be noted the Mannering of death as a homicide is a "neutral" term and neither indicates nor implies criminal intent. The determination of intent lies within the legal process.

REPORTING EMPLOYEE:	ID #:	APPROVED BY:	DATE:
L. BOTTOMLEY / CORONER DETECTIVE	**1102234**	**A. MANCILLA / LIEUTENANT**	**12/11/2017**

Sonoma County Sheriff's Office

Mark Essick, Sheriff-Coroner
Coroner Investigations Unit
3336 Chanate Road, Santa Rosa, CA 95404
(707) 565-5070

DEATH INVESTIGATION REPORT

CORONER CASE #
17-0000510

CONCLUSION: by Detective L. Bottomley #2234

Cause of Death: “Cardiopulmomary arrest immediately after a struggle with law enforcement, while under the influence of methamphetamine, (minutes)."

Manner of Death: Homicide.

Summary of Death: While under the influence of methamphetamine, the decedent died following a struggle with law enforcement.

SUPPLEMENTALS

REPORTING EMPLOYEE:	ID #:	APPROVED BY:	DATE:
L. BOTTOMLEY / CORONER DETECTIVE	**1102234**	**A. MANCILLA / LIEUTENANT**	**12/11/2017**

FORENSIC MEDICAL GROUP, INC.

Kelly A. Arthur-Kenny, M.D.
Arnold R. Josselson, M.D.
Mark A. Super, M.D.
Ikechi O. Ogan, M.D.

☒ AUTOPSY ☐ EXTERNAL EXAMINATION

NAME: WROTH, BRANCH CHRISTOPHER

CASE NO. 17-0510 (SON17-007)

POSTMORTEM DATE: 05-17-2017

TIME: 0855 Hours

PLACE OF DEATH: [redacted] Hotel
[redacted] Redwood Drive [redacted]
Rohnert Park CA 94928

DATE: 05-12-2017
TIME: 1600 Hours

AGE: 41 **SEX: Male** **RACE: White**

AUTOPSY FINDINGS:

1. Multiple cutaneous abrasions and contusions.
2. Scalp hemorrhage.
3. Hemorrhage of right temporal muscle.
4. Two separate hemorrhages of back muscles.
5. Fracture of right 2nd rib.
6. Hemorrhage of intercostal muscles on right.
7. Pulmonary congestion.

CAUSE OF DEATH: Cardiopulmonary arrest immediately after a struggle with law enforcement, while under the influence of methamphetamine, (minutes).

A. Josselson 1030

ARNOLD R. JOSSELSON, M.D. **Date**
Forensic Pathologist

ARJ/wcp
D: 05-17-17
T: 05-18-17
F: 08-29-17

The autopsy is conducted at the Sonoma County Sheriff-Coroner Morgue Facility in Santa Rosa, CA.

EXTERNAL EXAMINATION

The body is that of a normally developed, normally nourished man appearing the reported age of 41 years. There is no clothing on the body. The body measures 68 ½ inches and weighs 238.5 pounds. The head is symmetrical. The scalp is closely shaved but there appears to be very short gray-black hair of normal male distribution. There is a very short beard and moustache stubble. The face is symmetrical. The irides are brown, and the pupils are round and equal. The sclerae and conjunctivae are normal. The external ears, nose and lips are normally developed. There is no evidence of fracture or hemorrhage of the nose or mouth. The buccal mucosa and tongue show no lesions. The teeth are intact except that there is a prosthetic upper right central incisor. The ears reveal no evidence of trauma or hemorrhage. The neck is symmetrical and the trachea is palpable in the midline. The chest, abdomen, back, upper and lower extremities are normally developed. The abdomen is slightly protuberant, and there are no visible abdominal scars. The external genitalia are those of a normal adult male. There are no needle tracks in the antecubital fossae. There are no transverse scars on the wrists. The hands, fingers, and fingertips are intact. The wrists are handcuffed behind the back with the left over the right hand. After the handcuffs are removed, there are abrasion furrows where the handcuffs were. There are several tattoos on the body including barbed wire on the upper right arm, the head of a bird on the lower right shoulder area, unidentifiable large tattoo on the anterior left chest, what appears to be an eagle on the lateral left upper arm. Rigor mortis is moderate. Livor mortis is posterior and fixed. The back and posterior body surfaces reveal no abnormalities.

EXTERNAL EVIDENCE OF MEDICAL THERAPY

There is an oxygen cannula in the nose, an oral airway, defibrillator pads on the right chest and the lower left chest, EKGs on the right upper arm, right lower quadrant of the abdomen and left lower quadrant of the abdomen and there is an intraosseous needle in the lower right leg.

EXTERNAL EVIDENCE OF INJURY

On the lateral lower right back there is a 5 mm superficial laceration which is surrounded by a 2 mm abrasion. Above this also on the lower right back are approximately six purple contusions ranging in size from 1 to 4 cm. Within one of these purple contusions is a 2 mm laceration. There are four purple contusions each of which measures < 1 cm in the right antecubital fossa. Just above the fossa are multiple small red contusions. There is a vertical 3.5 cm linear abrasion on the upper posterior left forearm. There is a 5 mm abrasion on the posterior left 2nd finger

and a 5 mm abrasion on the posterior left 3rd finger. There is a 7 mm deep abrasion on the anterior left palm at the base of the 2nd finger. There is a 1 cm horizontal abrasion just to the right of the umbilicus. There are two small abrasions on the chin < 1 cm each. There is an 8 cm horizontal linear abrasion on the superior right shoulder. Six cm below this on the lateral upper right arm are parallel horizontal 7 cm abrasions. There is a 1.5 cm round faint red contusion on the lower anterior right chest just to the right of the midline. There are six horizontal vertical linear abrasions parallel to each other on the upper anterior medial right knee ranging in size from 5 mm to 1.5 cm. There is a "V"-shaped linear abrasion measuring 1.5 cm on the anterior right knee. There is a 1.2 cm purple contusion on the lateral left upper back. There is a 5 mm vertical abrasion on the lateral right knee. There are two faint purple contusions on the upper posterior left wrist 3 cm each. There is a 2 cm round red abrasion just below the right knee. There is a 3 cm "Y"-shaped horizontal abrasion on the upper anterior right leg. There is a 3 cm horizontal linear abrasion on the mid anterior lower right leg. There is a 2 cm red contusion on the posterior left forearm. There is a 1 x 3.5 cm abrasion on the lower right leg. There is a 6 cm round red contusion on the medial right ankle. There is a horizontal 15 cm linear abrasion on the medial lower left thigh. There is a 2 cm horizontal linear abrasion medial to the left knee. There is a 3 x 7 cm area of abrasion on the medial left knee. There is a 1 x 4 cm vertical abrasion on the lateral left knee. There are two parallel vertical abrasions of the upper anterior left knee 0.5 x 2 cm each. There is a 5 mm linear abrasion on the anterior left knee. There is a 1 cm squared abrasion on the anterior left knee. There are two adjacent 3 cm abrasions on the upper anterior left thigh which are somewhat vertical. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm faint red contusion which is round on the anterolateral lower left thigh. There is a 3.5 cm abrasion on the upper anterior lower left leg. Just below this is a 1 cm triangular-shaped abrasion. There is a 5 mm red contusion on the medial right ankle. There is a 1.5 cm faint red contusion on the lateral upper left calf. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm round red contusion on the posterior medial left thigh. There is a 2 cm round red faint contusion on the lateral lower left thigh. There is a 2.5 x 4 cm red contusion on the right frontal scalp on the forehead.

INTERNAL EXAMINATION

The body is examined using the thoraco-abdominal and posterior scalp incisions.

HEAD:

The reflected scalp shows a 2.5 x 4 cm subgaleal red contusion on the right frontal scalp under the overlying contusion on the forehead. The calvarium and base of the skull are unremarkable. The right temporal muscle shows a 0.5 x 4 cm hemorrhage. The left temporal

muscle shows no hemorrhage. On removal of the calvarium, there is no evidence of epidural, subdural, or subarachnoid hemorrhage. The leptomeninges are thin and delicate. The tentorium, cerebellum, and falx are intact. The vessels at the base of the brain have a normal configuration and show no arteriosclerosis. The brain is symmetrical and weighs 1400 grams. The convolutionary pattern is smooth and symmetrical. The brain will be fixed and submitted to neuropathology for further examination. The dura is stripped and reveals no abnormalities at the base of the skull. The orbital roofs are intact and unremarkable.

NECK:

The neck is opened anteriorly and posteriorly after all other organs including the brain have been removed. Anteriorly, no abnormalities are noted in the anterior strap muscles, hyoid bone or cervical vertebral column. There is a small area of hemorrhage on the lower anterior thyroid cartilage. The neck is also opened posteriorly and no hemorrhage is noted in the muscles or ligaments. The cervical vertebrae are without injury. The spinal cord is exposed and appears normal in the neck.

BODY CAVITIES:

The pleural and peritoneal cavities are free of fluid or adhesions. The pericardium is thin and translucent and encloses a small amount of clear fluid. There are no pericardial adhesions. The diaphragm is intact and all organs are in their normal locations. The subcutaneous fat in the anterior abdominal wall measures approximately 1 inch.

CARDIOVASCULAR SYSTEM:

The 500 gram heart has a normal configuration but is slightly enlarged. The coronary arteries arise normally, and follow a normal distribution. The coronary arteries show no arteriosclerosis. The endocardium, pericardium, epicardium and cardiac valves are normal throughout. The left ventricular myocardium is somewhat enlarged with the free wall measuring 1 cm and the septum 1.5 cm. The papillary muscles and chordae are normal. The aorta shows a normal pathway and shows no arteriosclerosis.

RESPIRATORY SYSTEM:

The larynx and trachea are intact. The right lung weighs 650 grams and the left lung weighs 640 grams. The tracheo-bronchial tree follows its normal anatomic pathway and contains a slight amount of fluid. The intrinsic pulmonary vessels are patent and reveal no thrombo-emboli. There is congestion in all lobes of each lung. The cut surface discloses no focal abnormalities.

GASTROINTESTINAL SYSTEM:

The tongue, esophagus, stomach, small intestine and colon are unremarkable. The appendix is present. The contents of the stomach consist of 60 ml of blood without identifiable food particles or pills.

HEPATOBILIARY SYSTEM:

The 1480 gram liver has a normal size and shape. The capsule is intact. It has a normal consistency and a normal red-brown color throughout. The cut surface of the liver shows a nutmeg pattern suggestive of passive congestion. The gallbladder contains 8 cc of brown bile of normal viscosity. There are no stones. The extrahepatic biliary system is patent.

PANCREAS:

The pancreas is normal.

ENDOCRINE SYSTEM:

The thyroid and adrenal glands are normal.

HEMOLYMPHATIC SYSTEM:

The 180 gram spleen has an intact capsule and normal parenchyma. The white pulp is visible. The lymph nodes are unremarkable.

URINARY SYSTEM:

The right kidney weighs 140 grams and the left kidney weighs 180 grams. The capsules are smooth and strip with ease. Sectioning reveals normal cortices with distinct cortico-medullary junctions and normal renal pelves. The ureters and bladder have a normal configuration and the bladder contains 260 ml of urine. The bladder mucosa is normal.

REPRODUCTIVE SYSTEM:

The prostate gland is normal to palpation. The testicles are normal.

MUSCULOSKELETAL SYSTEM:

The bony framework is well developed and well retained. There is a linear fracture of the lateral right 2nd rib. There is hemorrhage of the posterior right 6th through 8th intercostal spaces. There is an 8 cm area of hemorrhage in the back muscles under the overlying group of contusions; 3-4 cm above this area of hemorrhage is a 7 cm area of hemorrhage in the muscle and the right side of the back close to the midline. No other injuries are noted in the skeletal structures or the muscles.

SPECIMENS FOR HISTOLOGY:

Representative sections of the major organs are submitted. The brain will be submitted to neuropathology.

SPECIMENS FOR TOXICOLOGY:

Femoral blood is submitted for drugs and alcohol. Vitreous is submitted for glucose, ketones and electrolytes. Heart blood, gastric contents, liver and bile are retained.

AUTOPSY WITNESS:

C. Castaneda, Forensic Assistant; Detective Hanshaw, CSI Technician M. Braz, Evidence Tech T. Newton, Sergeant Mancillas, Sonoma County Sheriff-Coroner's Office; T. Sanders and D. Urtan, Sonoma County District Attorney's Office.

ARJ/wcp
D: 05-17-17
T: 05-18-17

MICROSCOPIC DESCRIPTION:

Heart: There is an area of fibrosis with infiltration of lymphocytes, in the myocardium.

Lungs: There is congestion.

Liver: There is mild microvesicular fatty change.

Spleen: Congestion.

Kidneys: Tubular autolysis.

Thyroid: Congestion.

Pancreas: Autolysis.

Adrenal: Normal.

ARJ/wcp
D/T: 08-29-17

FORENSIC MEDICAL GROUP, INC.

Kelly A. Arthur-Kenny, M.D.
Arnold R. Josselson, M.D.
Mark A. Super, M.D.
Ikechi O. Ogan, M.D.

☒ **AUTOPSY** ☐ **EXTERNAL EXAMINATION**

NAME: WROTH, BRANCH CHRISTOPHER

CASE NO. 17-0510
(SON17-007)

POSTMORTEM DATE: 05-17-2017

TIME: 0855 Hours

PLACE OF DEATH: [redacted] Hotel
[redacted] Redwood Drive [redacted]
Rohnert Park CA 94928

DATE: 05-12-2017
TIME: 1600 Hours

AGE: 41 **SEX: Male** **RACE: White**

AUTOPSY FINDINGS:

1. Multiple cutaneous abrasions and contusions.
2. Scalp hemorrhage.
3. Hemorrhage of right temporal muscle.
4. Two separate hemorrhages of back muscles.
5. Fracture of right 2nd rib.
6. Hemorrhage of intercostal muscles on right.
7. Pulmonary congestion.

CAUSE OF DEATH: Cardiopulmonary arrest immediately after a struggle with law enforcement personnel, while under the influence of methamphetamine, (minutes).

A. Josselson 8-30

ARNOLD R. JOSSELSON, M.D. **Date**
Forensic Pathologist

ARJ/wcp
D: 05-17-17
T: 05-18-17
F: 08-29-17

RECEIVED
SEP 05 2017
Sonoma County Coroner

The autopsy is conducted at the Sonoma County Sheriff-Coroner Morgue Facility in Santa Rosa, CA.

EXTERNAL EXAMINATION

The body is that of a normally developed, normally nourished man appearing the reported age of 41 years. There is no clothing on the body. The body measures 68 ½ inches and weighs 238.5 pounds. The head is symmetrical. The scalp is closely shaved but there appears to be very short gray-black hair of normal male distribution. There is a very short beard and moustache stubble. The face is symmetrical. The irides are brown, and the pupils are round and equal. The sclerae and conjunctivae are normal. The external ears, nose and lips are normally developed. There is no evidence of fracture or hemorrhage of the nose or mouth. The buccal mucosa and tongue show no lesions. The teeth are intact except that there is a prosthetic upper right central incisor. The ears reveal no evidence of trauma or hemorrhage. The neck is symmetrical and the trachea is palpable in the midline. The chest, abdomen, back, upper and lower extremities are normally developed. The abdomen is slightly protuberant, and there are no visible abdominal scars. The external genitalia are those of a normal adult male. There are no needle tracks in the antecubital fossae. There are no transverse scars on the wrists. The hands, fingers, and fingertips are intact. The wrists are handcuffed behind the back with the left over the right hand. After the handcuffs are removed, there are abrasion furrows where the handcuffs were. There are several tattoos on the body including barbed wire on the upper right arm, the head of a bird on the lower right shoulder area, unidentifiable large tattoo on the anterior left chest, what appears to be an eagle on the lateral left upper arm. Rigor mortis is moderate. Livor mortis is posterior and fixed. The back and posterior body surfaces reveal no abnormalities.

EXTERNAL EVIDENCE OF MEDICAL THERAPY

There is an oxygen cannula in the nose, an oral airway, defibrillator pads on the right chest and the lower left chest, EKGs on the right upper arm, right lower quadrant of the abdomen and left lower quadrant of the abdomen and there is an intraosseous needle in the lower right leg.

EXTERNAL EVIDENCE OF INJURY

On the lateral lower right back there is a 5 mm superficial laceration which is surrounded by a 2 mm abrasion. Above this also on the lower right back are approximately six purple contusions ranging in size from 1 to 4 cm. Within one of these purple contusions is a 2 mm laceration. There are four purple contusions each of which measures < 1 cm in the right antecubital fossa. Just above the fossa are multiple small red contusions. There is a vertical 3.5 cm linear abrasion on the upper posterior left forearm. There is a 5 mm abrasion on the posterior left 2nd finger

and a 5 mm abrasion on the posterior left 3rd finger. There is a 7 mm deep abrasion on the anterior left palm at the base of the 2nd finger. There is a 1 cm horizontal abrasion just to the right of the umbilicus. There are two small abrasions on the chin < 1 cm each. There is an 8 cm horizontal linear abrasion on the superior right shoulder. Six cm below this on the lateral upper right arm are parallel horizontal 7 cm abrasions. There is a 1.5 cm round faint red contusion on the lower anterior right chest just to the right of the midline. There are six horizontal vertical linear abrasions parallel to each other on the upper anterior medial right knee ranging in size from 5 mm to 1.5 cm. There is a "V"-shaped linear abrasion measuring 1.5 cm on the anterior right knee. There is a 1.2 cm purple contusion on the lateral left upper back. There is a 5 mm vertical abrasion on the lateral right knee. There are two faint purple contusions on the upper posterior left wrist 3 cm each. There is a 2 cm round red abrasion just below the right knee. There is a 3 cm "Y"-shaped horizontal abrasion on the upper anterior right leg. There is a 3 cm horizontal linear abrasion on the mid anterior lower right leg. There is a 2 cm red contusion on the posterior left forearm. There is a 1 x 3.5 cm abrasion on the lower right leg. There is a 6 cm round red contusion on the medial right ankle. There is a horizontal 15 cm linear abrasion on the medial lower left thigh. There is a 2 cm horizontal linear abrasion medial to the left knee. There is a 3 x 7 cm area of abrasion on the medial left knee. There is a 1 x 4 cm vertical abrasion on the lateral left knee. There are two parallel vertical abrasions of the upper anterior left knee 0.5 x 2 cm each. There is a 5 mm linear abrasion on the anterior left knee. There is a 1 cm squared abrasion on the anterior left knee. There are two adjacent 3 cm abrasions on the upper anterior left thigh which are somewhat vertical. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm faint red contusion which is round on the anterolateral lower left thigh. There is a 3.5 cm abrasion on the upper anterior lower left leg. Just below this is a 1 cm triangular-shaped abrasion. There is a 5 mm red contusion on the medial right ankle. There is a 1.5 cm faint red contusion on the lateral upper left calf. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm round red contusion on the posterior medial left thigh. There is a 2 cm round red faint contusion on the lateral lower left thigh. There is a 2.5 x 4 cm red contusion on the right frontal scalp on the forehead.

INTERNAL EXAMINATION

The body is examined using the thoraco-abdominal and posterior scalp incisions.

HEAD:

The reflected scalp shows a 2.5 x 4 cm subgaleal red contusion on the right frontal scalp under the overlying contusion on the forehead. The calvarium and base of the skull are unremarkable. The right temporal muscle shows a 0.5 x 4 cm hemorrhage. The left temporal

muscle shows no hemorrhage. On removal of the calvarium, there is no evidence of epidural, subdural, or subarachnoid hemorrhage. The leptomeninges are thin and delicate. The tentorium, cerebellum, and falx are intact. The vessels at the base of the brain have a normal configuration and show no arteriosclerosis. The brain is symmetrical and weighs 1400 grams. The convolutionary pattern is smooth and symmetrical. The brain will be fixed and submitted to neuropathology for further examination. The dura is stripped and reveals no abnormalities at the base of the skull. The orbital roofs are intact and unremarkable.

NECK:

The neck is opened anteriorly and posteriorly after all other organs including the brain have been removed. Anteriorly, no abnormalities are noted in the anterior strap muscles, hyoid bone or cervical vertebral column. There is a small area of hemorrhage on the lower anterior thyroid cartilage. The neck is also opened posteriorly and no hemorrhage is noted in the muscles or ligaments. The cervical vertebrae are without injury. The spinal cord is exposed and appears normal in the neck.

BODY CAVITIES:

The pleural and peritoneal cavities are free of fluid or adhesions. The pericardium is thin and translucent and encloses a small amount of clear fluid. There are no pericardial adhesions. The diaphragm is intact and all organs are in their normal locations. The subcutaneous fat in the anterior abdominal wall measures approximately 1 inch.

CARDIOVASCULAR SYSTEM:

The 500 gram heart has a normal configuration but is slightly enlarged. The coronary arteries arise normally, and follow a normal distribution. The coronary arteries show no arteriosclerosis. The endocardium, pericardium, epicardium and cardiac valves are normal throughout. The left ventricular myocardium is somewhat enlarged with the free wall measuring 1 cm and the septum 1.5 cm. The papillary muscles and chordae are normal. The aorta shows a normal pathway and shows no arteriosclerosis.

RESPIRATORY SYSTEM:

The larynx and trachea are intact. The right lung weighs 650 grams and the left lung weighs 640 grams. The tracheo-bronchial tree follows its normal anatomic pathway and contains a slight amount of fluid. The intrinsic pulmonary vessels are patent and reveal no thrombo-emboli. There is congestion in all lobes of each lung. The cut surface discloses no focal abnormalities.

GASTROINTESTINAL SYSTEM:

The tongue, esophagus, stomach, small intestine and colon are unremarkable. The appendix is present. The contents of the stomach consist of 60 ml of blood without identifiable food particles or pills.

HEPATOBILIARY SYSTEM:

The 1480 gram liver has a normal size and shape. The capsule is intact. It has a normal consistency and a normal red-brown color throughout. The cut surface of the liver shows a nutmeg pattern suggestive of passive congestion. The gallbladder contains 8 cc of brown bile of normal viscosity. There are no stones. The extrahepatic biliary system is patent.

PANCREAS:

The pancreas is normal.

ENDOCRINE SYSTEM:

The thyroid and adrenal glands are normal.

HEMOLYMPHATIC SYSTEM:

The 180 gram spleen has an intact capsule and normal parenchyma. The white pulp is visible. The lymph nodes are unremarkable.

URINARY SYSTEM:

The right kidney weighs 140 grams and the left kidney weighs 180 grams. The capsules are smooth and strip with ease. Sectioning reveals normal cortices with distinct cortico-medullary junctions and normal renal pelves. The ureters and bladder have a normal configuration and the bladder contains 260 ml of urine. The bladder mucosa is normal.

REPRODUCTIVE SYSTEM:

The prostate gland is normal to palpation. The testicles are normal.

MUSCULOSKELETAL SYSTEM:

The bony framework is well developed and well retained. There is a linear fracture of the lateral right 2nd rib. There is hemorrhage of the posterior right 6th through 8th intercostal spaces. There is an 8 cm area of hemorrhage in the back muscles under the overlying group of contusions; 3-4 cm above this area of hemorrhage is a 7 cm area of hemorrhage in the muscle and the right side of the back close to the midline. No other injuries are noted in the skeletal structures or the muscles.

SPECIMENS FOR HISTOLOGY:

Representative sections of the major organs are submitted. The brain will be submitted to neuropathology.

SPECIMENS FOR TOXICOLOGY:

Femoral blood is submitted for drugs and alcohol. Vitreous is submitted for glucose, ketones and electrolytes. Heart blood, gastric contents, liver and bile are retained.

AUTOPSY WITNESS:

C. Castaneda, Forensic Assistant; Detective Hanshaw, CSI Technician M. Braz, Evidence Tech T. Newton, Sergeant Mancillas, Sonoma County Sheriff-Coroner's Office; T. Sanders and D. Urtan, Sonoma County District Attorney's Office.

ARJ/wcp
D: 05-17-17
T: 05-18-17

MICROSCOPIC DESCRIPTION:

Heart: There is an area of fibrosis with infiltration of lymphocytes, in the myocardium.

Lungs: There is congestion.

Liver: There is mild microvesicular fatty change.

Spleen: Congestion.

Kidneys: Tubular autolysis.

Thyroid: Congestion.

Pancreas: Autolysis.

Adrenal: Normal.

ARJ/wcp
D/T: 08-29-17

RECEIVED
AUG 3 0 2017
SONOMA COUNTY CORONER

BENNET OMALU PATHOLOGY

Phone: 916-513-5253
Fax: 866-402-6875
E-mail: bennetomalu@bennetomalu.com

Public Health Management
Anatomic Pathology
Clinical Pathology and Toxicology
Forensic Pathology
Neuropathology
Epidemiology
Medico-legal Consultations

FORENSIC NEUROPATHOLOGY REPORT

NAME: BRANCH CHRISTOPHER WROTH

CASE NO.: SON17-007

AGE: 41 years old

SEX: Male

FINAL NEUROPATHOLOGICAL DIAGNOSES

ADULT BRAIN:

I. CONGESTIVE BRAIN SWELLING, GLOBAL, WITH DIFFUSE CEREBRAL PARENCHYMAL EDEMA, ACUTE, MIXED CYTOTOXIC-VASOGENIC, BRAIN WEIGHT: 1413 GRAMS
   a. Selective neuronal excitotoxic injury, early, with selective topographic vulnerability
   b. Congestive encephalopathy, acute, marked
   c. Scattered foci of parenchymal autolysis, centrum semiovale and subcortical ganglia
   d. No APP-immunopositive axonal bulbs, axonal spheroids or swollen, distorted axonal forms

II. FOCAL MID-SAGITTAL MICRO-LACERATION WITH SURROUNDING MICROHEMORRHAGES, SUPERIOR SPLENIUM OF THE CORPUS CALLOSUM

Bennet I. Omalu, MD, MBA, MPH, CPE, DABP-AP,CP,FP,NP
Forensic Pathologist/ Neuropathologist
06/ 23/ 17

GROSS DESCRIPTION

BRAIN:
The weight of the formaldehyde fixed brain is 1413 grams. The brain stem and cerebellum weigh 181 grams. The anthropometric dimensions of the brain appear consistent with a well-developed brain. The surfaces of the brain reveal no gross malformations. The cerebral hemispheres appear symmetrical and reveal a pattern of gyral and sulcal convolutions that appears within normal limits without holoprosencephaly, agyria, pachygyria, ulegyria or polymicrogyria. There is no hydranencephaly, basket brain, porencephaly or schizencephaly. There is diffuse symmetrical expansion of gyri and compression of sulci, accompanied by bilateral symmetrical grooving of the unci and cerebellar tonsils without necrosis.

The arachnoid and pia mater appear smooth and glistening in the dorsal and basal hemispheric surfaces and show patchy bilateral arachnoidal congestion without gross hemorrhages or exudates. The subarachnoidal cisterns are symmetrically compressed and contain no hemorrhage or exudate. The vessels of the Circle of Willis and the Basilar-Vertebral arteries are identified and reveal no anomalies, significant atherosclerosis or any aneurysm. The cranial nerves are identified and appear intact, without atrophy or tumor. There is no olfactory aplasia. There are no optic nerve subdural hemorrhages. The optic chiasm appears intact.

A mid-coronal section at the level of the mamillary bodies is made exposing the anterior midbrain and cerebral peduncles. A transverse axial section is made at the level of the posterior commissure separating the brainstem and cerebellum from the diencephalon (thalami) and telencephalon (cerebral hemispheres). Multiple serial coronal sections are made at 1 – 2 cm intervals from the occipital pole to the frontal pole. The neocortical gray ribbon is distinct and reveals no gross cortical dysplasia, contusional hemorrhage or necrosis. The gray-white matter demarcation is blurry. The centrum semiovale and the periventricular white matter reveal central congestion and edema without cystic necrosis, demyelination or gliding contusional hemorrhages. There is no periventricular leukomalacia, necrosis or nodule.

The ventricles are symmetrically compressed and contain no intraventricular hemorrhage or exudate. The ependymal lining is smooth and glistening. There is no evidence of intraventricular obstruction. The cerebral aqueduct of Sylvius appears patent. The foramen of Magendie and foramina of Lushka are patent. The choroid plexuses appear congested. The septum pellucidum, the lamina terminalis, superior and inferior medullary vela appear intact. The genu, body and splenium of the corpus callosum are intact and reveal no focal hemorrhages or necrosis.

The claustrum, caudate nucleus, putamen, globus pallidus, thalamus and subthalamic nucleus reveal no atrophy, hemorrhage or necrosis. The extreme, external and internal capsules reveal no infarcts or necrosis. The anterior perforated substance shows no necrosis or hemorrhage. The amygdala and the piriform cortex reveal no focal necrosis or hemorrhage. The hippocampus and parahippocampal gyrus reveal no dysplasia, atrophy, hemorrhage or necrosis. The mamillary bodies and hypothalamus reveal no atrophy, xanthochromia or hemorrhage.

The brain stem is separated from the cerebellum at the cerebellar peduncles and multiple transverse sections of the caudal and rostral midbrain, pons and medulla oblongata, reveal no focal necrosis or hemorrhage. There are no dorsolateral hemorrhages or necrosis. There is no hemorrhagic collicular necrosis. The cerebral peduncles show no necrosis. The substantia nigra and locus ceruleus are adequately pigmented for age. The midbrain tegmentum reveals no focal necrosis or hemorrhage, as well as the pontine and medullary tegmentum. The basis pontis shows no central myelinolysis, necrosis or hemorrhage. The medullary pyramids reveal no focal necrosis or infarct.

The cerebellar hemispheres are symmetrical and reveal no malformation or folial atrophy. The primary fissure and the posterolateral fissures are identified as well as the flocculonodular, anterior and posterior lobes. The vermis and paravermal zones are neither cystic nor atrophic. Multiple sagittal sections of the cerebellum reveal no gross cortical dysplasia or necrosis. The cerebellar white matter shows no focal necrosis or hemorrhage. The dentate nucleus and other deep cerebellar nuclei appear unremarkable. The inferior (restiform body), middle (brachium pontis) and the superior (brachium conjunctivum) cerebellar peduncles reveal no hemorrhages.

Representative sections of tissue are submitted for histologic tissue processing as follows:

1. Frontal lobe, left
2. Cingulate gyrus, corpus callosum and caudate nucleus, left
3. Insula cortex, putamen and globus pallidus, left
4. Hippocampus, left
5. Thalamus, left
6. Midbrain
7. Pons
8. Medulla
9. Cerebellum
10. Corpus callosum, splenium
11. Hippocampus, right
12. Parietal lobe, right

MICROSCOPIC DESCRIPTION

Examination of hematoxylin and eosin stained sections of the neocortex reveals a homogenetic cortex with a homotypical laminar and columnar organization. There is no cortical disorganization, diffuse or nodular neuronal heterotopia. There is no significant neuronal drop-out or astrogliosis. There are many scattered amphophilic, pyknotic neurons in the neocortex. There is diffuse perineuronal vacuolation, accompanied by expansion of Virchow Robin spaces and neuropil microspongiosis of both the gray and white matter. The arachnoid mater, pia mater, penetrating vessels and the Virchow Robin's spaces reveal marked congestion with multifocal and marked perivascular microextravasates. There are multifocal and sparse lymphocytes and histiocytes in the Virchow Robin spaces of several penetrating parenchymal blood vessels. The centrum semiovale, the body and splenium of the corpus callosum reveal diffuse neuropil edema and marked vascular congestion without focal demyelination. The superior splenium of the corpus callosum shows a focal mid-sagittal micro-laceration with surrounding microhemorrhages. There is no periventricular leukomalacia. The subependymal white matter is non-gliotic and the ependymal cells show intermittent denudation without any inflammation. There are scattered foci of parenchymal autolysis in the centrum semiovale and subcortical ganglia.

The dentate gyrus and cornu ammonis of the hippocampus reveal neuropil edema and marked vascular congestion without any dysplasia or sclerosis. The stratum pyramidalis of the Sommer's sector (CA1), CA2, CA3 and CA4 regions of the cornu ammonis reveal many eosinophilic and pyknotic pyramidal neurons in the Sommer's sector. The entorhinal cortex and the alveus reveal no focal necrosis. The internal, external and extreme capsules reveal diffuse neuropil edema without focal infarct or necrosis. The claustrum, caudate nucleus, putamen, globus pallidus and thalamus reveal diffuse neuropil edema and marked vascular congestion with few scattered amphophilic and pyknotic neurons without focal necrosis or hemorrhage, and without significant neuronal dropout. There is no mineralization of the walls of the vessels of the globus pallidus or hippocampus.

The midbrain tectum and tegmentum, and the periaqueductal gray matter reveal few scattered eosinophilic neurons with diffuse neuropil edema, marked vascular congestion and perivascular micro-extravasates. The substantia nigra (pars reticularis and pars compacta) and locus ceruleus reveal adequately pigmented neurons without significant neuronal dropout and show few amphophilic

neurons. There is no dorsolateral or collicular necrosis or hemorrhage. The cerebral peduncles show no focal necrosis. The basis pontis shows diffuse edema with marked vascular congestion and perivascular microextravasates without any focal demyelination or necrosis. The pontine nuclei, pontine tegmentum, medullary tegmentum and inferior olivary nuclei reveal diffuse edema and marked vascular congestion with perivascular microextravasates and few amphophilic neurons, without focal necrosis or myelinolysis. The choroid plexus is markedly congested and reveals few scattered calcospherites. The medullary pyramids show no necrosis.

The cerebellar cortex reveals no dysplasia. The Purkinje neurons show many scattered eosinophilic and amphophilic pyknotic neurons with mild neuronal dropout. The internal granule cell layer shows no autolysis. The dentate nucleus shows many scattered eosinophilic, amphophilic and pyknotic neurons without significant dropout. There is diffuse edema, with marked vascular congestion and perivascular microextravasates in the cerebellar arachnoid mater, cerebellar cortex and cerebellar white matter without focal necrosis.

OTHER SPECIALIZED STUDIES

Immunohistochemical stains for Amyloid Precursor Protein [APP] are performed on sections obtained from the following tissue blocks:

1. Frontal lobe, left
4. Hippocampus, left
5. Thalamus, left
6. Midbrain
8. Medulla
10. Corpus callosum, splenium
12. Parietal lobe, right

Examination of the APP-immunostained sections reveal no APP-immunopositive traumatic axonal bulb, axonal spheroid or swollen, distorted axonal forms in all sections examined.

NMS LABS

NMS Labs
3701 Welsh Road, PO Box 433A, Willow Grove, PA 19090-0437
Phone: (215) 657-4900 Fax: (215) 657-2972
e-mail: nms@nmslabs.com
Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

CONFIDENTIAL

Toxicology Report

Report Issued 06/02/2017 11:01

To: **10325**
Sonoma County Sheriff's Office
Attn: Sgt. Adrian Mancilla
3336 Chanate Road
Santa Rosa, CA 95404

Patient Name	WROTH, BRANCH
Patient ID	[redacted]
Chain	[redacted]
Age	41 Y [redacted]
Gender	Male
Workorder	17153513

RECEIVED
JUN 8 2 2017
SONOMA COUNTY CORONER

Positive Findings:

Compound	Result	Units	Matrix Source
Naloxone	**Positive**	**ng/mL**	**001 - Femoral Blood**
Delta-9 THC	**5.3**	**ng/mL**	**001 - Femoral Blood**
Amphetamine	**320**	**ng/mL**	**001 - Femoral Blood**
Methamphetamine	**820**	**ng/mL**	**001 - Femoral Blood**
Creatinine (Vitreous Fluid)	**1.2**	**mg/dL**	**003 - Vitreous Fluid**
Sodium (Vitreous Fluid)	**127**	**mmol/L**	**003 - Vitreous Fluid**
Potassium (Vitreous Fluid)	**>20**	**mmol/L**	**003 - Vitreous Fluid**
Chloride (Vitreous Fluid)	**113**	**mmol/L**	**003 - Vitreous Fluid**
Urea Nitrogen (Vitreous Fluid)	**30**	**mg/dL**	**003 - Vitreous Fluid**

See Detailed Findings section for additional information

Testing Requested:

Analysis Code	Description
1919FL	Electrolytes and Glucose Panel (Vitreous), Fluid (Forensic)
8052B	Postmortem, Expanded, Blood (Forensic)
2481FL	Ketone Panel, Fluid

Specimens Received:

ID	Tube/Container	Volume/ Mass	Collection Date/Time	Matrix Source	Miscellaneous Information
001	Gray Top Tube	8.75 mL	05/15/2017 15:15	Femoral Blood	
002	Gray Top Tube	4.5 mL	05/15/2017 15:15	Femoral Blood	
003	Red Top Tube	2.75 mL	05/17/2017	Vitreous Fluid	

All sample volumes/weights are approximations.

Specimens received on 05/23/2017, 05/17/2017.

Detailed Findings:

Analysis and Comments	Result	Units	Rpt. Limit	Specimen Source	Analysis By
Naloxone	Positive	ng/mL	1.0	001 - Femoral Blood	LC/TOF-MS
Delta-9 THC	5.3	ng/mL	0.50	001 - Femoral Blood	LC-MS/MS
Amphetamine	320	ng/mL	5.0	001 - Femoral Blood	LC-MS/MS
Methamphetamine	820	ng/mL	5.0	001 - Femoral Blood	LC-MS/MS
Creatinine (Vitreous Fluid)	1.2	mg/dL	0.050	003 - Vitreous Fluid	Colorimetry
Sodium (Vitreous Fluid)	127	mmol/L	80	003 - Vitreous Fluid	Chemistry Analyzer
Potassium (Vitreous Fluid)	>20	mmol/L	1.0	003 - Vitreous Fluid	Chemistry Analyzer
Chloride (Vitreous Fluid)	113	mmol/L	70	003 - Vitreous Fluid	Chemistry Analyzer
Glucose (Vitreous Fluid)	None Detected	mg/dL	35	003 - Vitreous Fluid	Chemistry Analyzer
Urea Nitrogen (Vitreous Fluid)	30	mg/dL	3.0	003 - Vitreous Fluid	Chemistry Analyzer

Other than the above findings, examination of the specimen(s) submitted did not reveal any positive findings of toxicological significance by procedures outlined in the accompanying Analysis Summary.

Reference Comments:

1. Amphetamine (Benzphetamine Metabolite) - Femoral Blood:

   Amphetamine (Adderall, Dexedrine) is a Schedule II phenethylamine CNS-stimulant. It is used therapeutically in the treatment of narcolepsy and obesity and also in the treatment of hyperactivity in children. Amphetamine has a high potential for abuse. When used in therapy, initial doses should be small and increased gradually. In the treatment of narcolepsy, amphetamine is administered in daily divided doses of 5 to 60 mg. For obesity and children with attention deficits, usual dosage is 5 or 10 mg daily.

   Following a single oral dose of 10 mg amphetamine sulfate, a reported peak blood concentration of 40 ng/mL was reached at 2 hr. Following a single 30 mg dose to adults, an average peak plasma level of 100 ng/mL was reported at 2.5 hr. A steady-state blood level of 2000 - 3000 ng/mL was reported in an addict who consumed approximately 1000 mg daily.

   Overdose with amphetamine can produce restlessness, hyperthermia, convulsions, hallucinations, respiratory and/or cardiac failure. Reported blood concentrations in amphetamine-related fatalities ranged from 500 - 41000 ng/mL (mean, 9000 ng/mL). Amphetamine is also a metabolite of methamphetamine, benzphetamine and selegiline.

2. Chloride (Vitreous Fluid) - Vitreous Fluid:

   Normal: 105 - 135 mmol/L

3. Creatinine (Vitreous Fluid) - Vitreous Fluid:

   Normal: 0.6 - 1.3 mg/dL

Reference Comments:

4. Delta-9 THC (Active Ingredient of Marijuana) - Femoral Blood:

   Marijuana is a DEA Schedule I hallucinogen. Pharmacologically, it has depressant and reality distorting effects. Collectively, the chemical compounds that comprise marijuana are known as Cannabinoids.

   Delta-9-THC is the principle psychoactive ingredient of marijuana/hashish. It rapidly leaves the blood, even during smoking, falling to below detectable levels within several hours. Delta-9-carboxy-THC (THCC) is the inactive metabolite of THC and may be detected for up to one day or more in blood. Both delta-9-THC and THCC may be present substantially longer in chronic users.
   THC concentrations in blood are usually about one-half of serum/plasma concentrations. Usual peak levels in serum for 1.75% or 3.55% THC marijuana cigarettes: 50 - 270 ng/mL at 6 to 9 minutes after beginning smoking, decreasing to less than 5 ng/mL by 2 hrs.

5. Glucose (Vitreous Fluid) - Vitreous Fluid:

   Normal: <200 mg/dL

   Postmortem vitreous glucose concentrations >200 mg/dL are associated with hyperglycemia.

   Since postmortem vitreous glucose concentrations decline rapidly after death both in vivo and in vitro, care should be taken in the interpretation of results. Stability of vitreous glucose for up to 30 days has been noted by NMS Labs when specimens are maintained frozen (-20°C).

6. Methamphetamine (Benzphetamine Metabolite) - Femoral Blood:

   d-methamphetamine is a DEA schedule II stimulant drug capable of causing hallucinations, aggressive behavior and irrational reactions. Chemically, there are two forms (isomers) of methamphetamine: l- and d-methamphetamine. The l-isomer is used in non-prescription inhalers as a decongestant and has weak CNS-stimulatory activity. The d-isomer has been used therapeutically as an anorexigenic agent in the treatment of obesity and has potent CNS-, cardiac- and circulatory-stimulatory activity. Amphetamine and norephedrine (phenylpropanolamine) are metabolites of methamphetamine. d-methamphetamine is an abused substance because of its stimulatory effects and is also addictive.

   A peak blood concentration of methamphetamine of 20 ng/mL was reported at 2.5 hr after an oral dosage of 12.5 mg. Blood levels of 200 - 600 ng/mL have been reported in methamphetamine abusers who exhibited violent and irrational behavior. High doses of methamphetamine can also elicit restlessness, confusion, hallucinations, circulatory collapse and convulsions.

   *In this case, the level of methamphetamine determined has not been differentiated according to its isomeric forms. Differentiation of the isomers of methamphetamine is available upon request.

7. Naloxone (Narcan®) - Femoral Blood:

   Naloxone is a narcotic antagonist used to counter the central nervous system depression effects of opioids, including respiratory depression. It is also used for the diagnosis of suspected acute opioid overdosage. Naloxone is available as a 0.4 mg/mL solution of the hydrochloride for parenteral injection.

   Naloxone is also available in combination with buprenorphine (Suboxone®) for the treatment of opioid dependence. This combination is available in tablets of 2 mg buprenorphine with 0.5 mg naloxone or 8 mg buprenorphine with 2 mg of naloxone for sublingual administration.

   The reported qualitative result for this substance was based upon a single analysis only. If confirmation testing is required please contact the laboratory.

8. Potassium (Vitreous Fluid) - Vitreous Fluid:

   Normal: <15 mmol/L
   Quantitative results for Potassium will be affected if performed on gray top tubes since these collection tubes contain potassium oxalate.

9. Sodium (Vitreous Fluid) - Vitreous Fluid:

   Normal: 135 - 150 mmol/L
   Quantitative results for sodium will be affected if performed on gray top tubes since these collection tubes contain sodium fluoride.

Reference Comments:

10. Urea Nitrogen (Vitreous Fluid) - Vitreous Fluid:
    Normal: 8 - 20 mg/dL

Unless alternate arrangements are made by you, the remainder of the submitted specimens will be discarded two (2) years from the date of this report; and generated data will be discarded five (5) years from the date the analyses were performed.

Workorder 17153513 was electronically signed on 06/02/2017 10:39 by:

Daniel S. Isenschmid, Ph.D., F-ABFT
Forensic Toxicologist

Analysis Summary and Reporting Limits:

All of the following tests were performed for this case. For each test, the compounds listed were included in the scope. The Reporting Limit listed for each compound represents the lowest concentration of the compound that will be reported as being positive. If the compound is listed as None Detected, it is not present above the Reporting Limit. Please refer to the Positive Findings section of the report for those compounds that were identified as being present.

Acode 1919FL - Electrolytes and Glucose Panel (Vitreous), Fluid (Forensic) - Vitreous Fluid

-Analysis by Chemistry Analyzer for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Chloride (Vitreous Fluid)	70 mmol/L	Sodium (Vitreous Fluid)	80 mmol/L
Glucose (Vitreous Fluid)	35 mg/dL	Urea Nitrogen (Vitreous Fluid)	3.0 mg/dL
Potassium (Vitreous Fluid)	1.0 mmol/L		

-Analysis by Colorimetry (C) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Creatinine (Vitreous Fluid)	0.050 mg/dL		

Acode 2481FL - Ketone Panel, Fluid - Vitreous Fluid

-Analysis by Headspace Gas Chromatography (GC) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Acetone	10 mg/dL	Methyl Isoamyl Ketone	1.0 mcg/mL
Cyclohexanone	0.50 mcg/mL	Methyl Isobutyl Ketone	1.0 mcg/mL
Diisobutyl Ketone	1.0 mcg/mL	Methyl n-Amyl Ketone	1.0 mcg/mL
Mesityl Oxide	1.0 mcg/mL	Methyl n-Butyl Ketone	1.0 mcg/mL
Methyl Ethyl Ketone	1.0 mcg/mL	Methyl n-Propyl Ketone	1.0 mcg/mL

Acode 52198B - Cannabinoids Confirmation, Blood (Forensic) - Femoral Blood

-Analysis by High Performance Liquid Chromatography/ TandemMass Spectrometry (LC-MS/MS) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
11-Hydroxy Delta-9 THC	1.0 ng/mL	Delta-9 THC	0.50 ng/mL
Delta-9 Carboxy THC	5.0 ng/mL		

Acode 52485B - Amphetamines Confirmation, Blood (Forensic) - Femoral Blood

Analysis Summary and Reporting Limits:

-Analysis by High Performance Liquid Chromatography/ TandemMass Spectrometry (LC-MS/MS) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Amphetamine	5.0 ng/mL	Norpseudoephedrine	5.0 ng/mL
Ephedrine	5.0 ng/mL	Phentermine	10 ng/mL
MDA	5.0 ng/mL	Phenylpropanolamine	5.0 ng/mL
MDEA	10 ng/mL	Pseudoephedrine	5.0 ng/mL
Methamphetamine	5.0 ng/mL		

Acode 8052B - Postmortem, Expanded, Blood (Forensic) - Femoral Blood

-Analysis by Enzyme-Linked Immunosorbent Assay (ELISA) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Barbiturates	0.040 mcg/mL	Salicylates	120 mcg/mL
Cannabinoids	10 ng/mL		

-Analysis by Headspace Gas Chromatography (GC) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Acetone	5.0 mg/dL	Isopropanol	5.0 mg/dL
Ethanol	10 mg/dL	Methanol	5.0 mg/dL

-Analysis by High Performance Liquid Chromatography/Time ofFlight-Mass Spectrometry (LC/TOF-MS) for: The following is a general list of compound classes included in this screen. The detection of any specific analyte is concentration-dependent. Note, not all known analytes in each specified compound class are included. Some specific analytes outside these classes are also included. For a detailed list of all analytes and reporting limits, please contact NMS Labs.
Amphetamines, Anticonvulsants, Antidepressants, Antihistamines, Antipsychotic Agents, Benzodiazepines, CNS Stimulants, Cocaine and Metabolites, Hallucinogens, Hypnosedatives, Hypoglycemics, Muscle Relaxants, Non-Steroidal Anti-Inflammatory Agents, Opiates and Opioids.

FORENSIC MEDICAL GROUP, INC.

Kelly A. Arthur-Kenny, M.D.
Arnold R. Josselson, M.D.
Mark A. Super, M.D.
Ikechi O. Ogan, M.D.

COPY

☒ AUTOPSY ☐ EXTERNAL EXAMINATION

NAME: WROTH, BRANCH CHRISTOPHER

CASE NO. 17-0510
(SON17-007)

POSTMORTEM DATE: 05-17-2017

TIME: 0855 Hours

PLACE OF DEATH: [redacted] Hotel
[redacted] Redwood Drive [redacted]
Rohnert Park CA 94928

DATE: 05-12-2017
TIME: 1600 Hours

AGE: 41 **SEX: Male** **RACE: White**

AUTOPSY FINDINGS:

1. Multiple cutaneous abrasions and contusions.
2. Scalp hemorrhage.
3. Hemorrhage of right temporal muscle.
4. Two separate hemorrhages of back muscles.
5. Fracture of right 2nd rib.
6. Hemorrhage of intercostal muscles on right.
7. Pulmonary congestion.

CAUSE OF DEATH: Cardiopulmonary arrest immediately after a struggle with law enforcement personnel, while under the influence of methamphetamine, (minutes).

A. Josselson 8-30

ARNOLD R. JOSSELSON, M.D. **Date**
Forensic Pathologist

ARJ/wcp
D: 05-17-17
T: 05-18-17
F: 08-29-17

RECEIVED
SEP 05 2017
Sonoma County Coroner

The autopsy is conducted at the Sonoma County Sheriff-Coroner Morgue Facility in Santa Rosa, CA.

EXTERNAL EXAMINATION

The body is that of a normally developed, normally nourished man appearing the reported age of 41 years. There is no clothing on the body. The body measures 68 ½ inches and weighs 238.5 pounds. The head is symmetrical. The scalp is closely shaved but there appears to be very short gray-black hair of normal male distribution. There is a very short beard and moustache stubble. The face is symmetrical. The irides are brown, and the pupils are round and equal. The sclerae and conjunctivae are normal. The external ears, nose and lips are normally developed. There is no evidence of fracture or hemorrhage of the nose or mouth. The buccal mucosa and tongue show no lesions. The teeth are intact except that there is a prosthetic upper right central incisor. The ears reveal no evidence of trauma or hemorrhage. The neck is symmetrical and the trachea is palpable in the midline. The chest, abdomen, back, upper and lower extremities are normally developed. The abdomen is slightly protuberant, and there are no visible abdominal scars. The external genitalia are those of a normal adult male. There are no needle tracks in the antecubital fossae. There are no transverse scars on the wrists. The hands, fingers, and fingertips are intact. The wrists are handcuffed behind the back with the left over the right hand. After the handcuffs are removed, there are abrasion furrows where the handcuffs were. There are several tattoos on the body including barbed wire on the upper right arm, the head of a bird on the lower right shoulder area, unidentifiable large tattoo on the anterior left chest, what appears to be an eagle on the lateral left upper arm. Rigor mortis is moderate. Livor mortis is posterior and fixed. The back and posterior body surfaces reveal no abnormalities.

EXTERNAL EVIDENCE OF MEDICAL THERAPY

There is an oxygen cannula in the nose, an oral airway, defibrillator pads on the right chest and the lower left chest, EKGs on the right upper arm, right lower quadrant of the abdomen and left lower quadrant of the abdomen and there is an intraosseous needle in the lower right leg.

EXTERNAL EVIDENCE OF INJURY

On the lateral lower right back there is a 5 mm superficial laceration which is surrounded by a 2 mm abrasion. Above this also on the lower right back are approximately six purple contusions ranging in size from 1 to 4 cm. Within one of these purple contusions is a 2 mm laceration. There are four purple contusions each of which measures < 1 cm in the right antecubital fossa. Just above the fossa are multiple small red contusions. There is a vertical 3.5 cm linear abrasion on the upper posterior left forearm. There is a 5 mm abrasion on the posterior left 2nd finger

and a 5 mm abrasion on the posterior left 3rd finger. There is a 7 mm deep abrasion on the anterior left palm at the base of the 2nd finger. There is a 1 cm horizontal abrasion just to the right of the umbilicus. There are two small abrasions on the chin < 1 cm each. There is an 8 cm horizontal linear abrasion on the superior right shoulder. Six cm below this on the lateral upper right arm are parallel horizontal 7 cm abrasions. There is a 1.5 cm round faint red contusion on the lower anterior right chest just to the right of the midline. There are six horizontal vertical linear abrasions parallel to each other on the upper anterior medial right knee ranging in size from 5 mm to 1.5 cm. There is a "V"-shaped linear abrasion measuring 1.5 cm on the anterior right knee. There is a 1.2 cm purple contusion on the lateral left upper back. There is a 5 mm vertical abrasion on the lateral right knee. There are two faint purple contusions on the upper posterior left wrist 3 cm each. There is a 2 cm round red abrasion just below the right knee. There is a 3 cm "Y"-shaped horizontal abrasion on the upper anterior right leg. There is a 3 cm horizontal linear abrasion on the mid anterior lower right leg. There is a 2 cm red contusion on the posterior left forearm. There is a 1 x 3.5 cm abrasion on the lower right leg. There is a 6 cm round red contusion on the medial right ankle. There is a horizontal 15 cm linear abrasion on the medial lower left thigh. There is a 2 cm horizontal linear abrasion medial to the left knee. There is a 3 x 7 cm area of abrasion on the medial left knee. There is a 1 x 4 cm vertical abrasion on the lateral left knee. There are two parallel vertical abrasions of the upper anterior left knee 0.5 x 2 cm each. There is a 5 mm linear abrasion on the anterior left knee. There is a 1 cm squared abrasion on the anterior left knee. There are two adjacent 3 cm abrasions on the upper anterior left thigh which are somewhat vertical. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm faint red contusion which is round on the anterolateral lower left thigh. There is a 3.5 cm abrasion on the upper anterior lower left leg. Just below this is a 1 cm triangular-shaped abrasion. There is a 5 mm red contusion on the medial right ankle. There is a 1.5 cm faint red contusion on the lateral upper left calf. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm round red contusion on the posterior medial left thigh. There is a 2 cm round red faint contusion on the lateral lower left thigh. There is a 2.5 x 4 cm red contusion on the right frontal scalp on the forehead.

INTERNAL EXAMINATION

The body is examined using the thoraco-abdominal and posterior scalp incisions.

HEAD:

The reflected scalp shows a 2.5 x 4 cm subgaleal red contusion on the right frontal scalp under the overlying contusion on the forehead. The calvarium and base of the skull are unremarkable. The right temporal muscle shows a 0.5 x 4 cm hemorrhage. The left temporal

muscle shows no hemorrhage. On removal of the calvarium, there is no evidence of epidural, subdural, or subarachnoid hemorrhage. The leptomeninges are thin and delicate. The tentorium, cerebellum, and falx are intact. The vessels at the base of the brain have a normal configuration and show no arteriosclerosis. The brain is symmetrical and weighs 1400 grams. The convolutionary pattern is smooth and symmetrical. The brain will be fixed and submitted to neuropathology for further examination. The dura is stripped and reveals no abnormalities at the base of the skull. The orbital roofs are intact and unremarkable.

NECK:

The neck is opened anteriorly and posteriorly after all other organs including the brain have been removed. Anteriorly, no abnormalities are noted in the anterior strap muscles, hyoid bone or cervical vertebral column. There is a small area of hemorrhage on the lower anterior thyroid cartilage. The neck is also opened posteriorly and no hemorrhage is noted in the muscles or ligaments. The cervical vertebrae are without injury. The spinal cord is exposed and appears normal in the neck.

BODY CAVITIES:

The pleural and peritoneal cavities are free of fluid or adhesions. The pericardium is thin and translucent and encloses a small amount of clear fluid. There are no pericardial adhesions. The diaphragm is intact and all organs are in their normal locations. The subcutaneous fat in the anterior abdominal wall measures approximately 1 inch.

CARDIOVASCULAR SYSTEM:

The 500 gram heart has a normal configuration but is slightly enlarged. The coronary arteries arise normally, and follow a normal distribution. The coronary arteries show no arteriosclerosis. The endocardium, pericardium, epicardium and cardiac valves are normal throughout. The left ventricular myocardium is somewhat enlarged with the free wall measuring 1 cm and the septum 1.5 cm. The papillary muscles and chordae are normal. The aorta shows a normal pathway and shows no arteriosclerosis.

RESPIRATORY SYSTEM:

The larynx and trachea are intact. The right lung weighs 650 grams and the left lung weighs 640 grams. The tracheo-bronchial tree follows its normal anatomic pathway and contains a slight amount of fluid. The intrinsic pulmonary vessels are patent and reveal no thrombo-emboli. There is congestion in all lobes of each lung. The cut surface discloses no focal abnormalities.

GASTROINTESTINAL SYSTEM:

The tongue, esophagus, stomach, small intestine and colon are unremarkable. The appendix is present. The contents of the stomach consist of 60 ml of blood without identifiable food particles or pills.

HEPATOBILIARY SYSTEM:

The 1480 gram liver has a normal size and shape. The capsule is intact. It has a normal consistency and a normal red-brown color throughout. The cut surface of the liver shows a nutmeg pattern suggestive of passive congestion. The gallbladder contains 8 cc of brown bile of normal viscosity. There are no stones. The extrahepatic biliary system is patent.

PANCREAS:

The pancreas is normal.

ENDOCRINE SYSTEM:

The thyroid and adrenal glands are normal.

HEMOLYMPHATIC SYSTEM:

The 180 gram spleen has an intact capsule and normal parenchyma. The white pulp is visible. The lymph nodes are unremarkable.

URINARY SYSTEM:

The right kidney weighs 140 grams and the left kidney weighs 180 grams. The capsules are smooth and strip with ease. Sectioning reveals normal cortices with distinct cortico-medullary junctions and normal renal pelves. The ureters and bladder have a normal configuration and the bladder contains 260 ml of urine. The bladder mucosa is normal.

REPRODUCTIVE SYSTEM:

The prostate gland is normal to palpation. The testicles are normal.

MUSCULOSKELETAL SYSTEM:

The bony framework is well developed and well retained. There is a linear fracture of the lateral right 2nd rib. There is hemorrhage of the posterior right 6th through 8th intercostal spaces. There is an 8 cm area of hemorrhage in the back muscles under the overlying group of contusions; 3-4 cm above this area of hemorrhage is a 7 cm area of hemorrhage in the muscle and the right side of the back close to the midline. No other injuries are noted in the skeletal structures or the muscles.

SPECIMENS FOR HISTOLOGY:

Representative sections of the major organs are submitted. The brain will be submitted to neuropathology.

SPECIMENS FOR TOXICOLOGY:

Femoral blood is submitted for drugs and alcohol. Vitreous is submitted for glucose, ketones and electrolytes. Heart blood, gastric contents, liver and bile are retained.

AUTOPSY WITNESS:

C. Castaneda, Forensic Assistant; Detective Hanshaw, CSI Technician M. Braz, Evidence Tech T. Newton, Sergeant Mancillas, Sonoma County Sheriff-Coroner's Office; T. Sanders and D. Urtan, Sonoma County District Attorney's Office.

ARJ/wcp
D: 05-17-17
T: 05-18-17

MICROSCOPIC DESCRIPTION:

Heart: There is an area of fibrosis with infiltration of lymphocytes, in the myocardium.

Lungs: There is congestion.

Liver: There is mild microvesicular fatty change.

Spleen: Congestion.

Kidneys: Tubular autolysis.

Thyroid: Congestion.

Pancreas: Autolysis.

Adrenal: Normal.

ARJ/wcp
D/T: 08-29-17

FORENSIC MEDICAL GROUP INC.

Kelly A. Arthur-Kenny, M.D.
Arnold R. Josselson, M.D.
Mark A. Super, M.D.
Ikechi O. Ogan, M.D.

COPY

☒ AUTOPSY ☐ EXTERNAL EXAMINATION

NAME: WROTH, BRANCH CHRISTOPHER

CASE NO. 17-0510
(SON17-007)

POSTMORTEM DATE: 05-17-2017

TIME: 0855 Hours

PLACE OF DEATH: [redacted] Hotel
[redacted] Redwood Drive [redacted]
Rohnert Park CA 94928

DATE: 05-12-2017
TIME: 1600 Hours

AGE: 41 SEX: Male RACE: White

AUTOPSY FINDINGS:

1. Multiple cutaneous abrasions and contusions.
2. Scalp hemorrhage.
3. Hemorrhage of right temporal muscle.
4. Two separate hemorrhages of back muscles.
5. Fracture of right 2nd rib.
6. Hemorrhage of intercostal muscles on right.
7. Pulmonary congestion.

CAUSE OF DEATH: Cardiopulmonary arrest immediately after a struggle with law enforcement, while under the influence of methamphetamine, (minutes).

A Josselson 1030

ARNOLD R. JOSSELSON, M.D. Date
Forensic Pathologist

ARJ/wcp
D: 05-17-17
T: 05-18-17
F: 08-29-17

The autopsy is conducted at the Sonoma County Sheriff-Coroner Morgue Facility in Santa Rosa, CA.

EXTERNAL EXAMINATION

The body is that of a normally developed, normally nourished man appearing the reported age of 41 years. There is no clothing on the body. The body measures 68 ½ inches and weighs 238.5 pounds. The head is symmetrical. The scalp is closely shaved but there appears to be very short gray-black hair of normal male distribution. There is a very short beard and moustache stubble. The face is symmetrical. The irides are brown, and the pupils are round and equal. The sclerae and conjunctivae are normal. The external ears, nose and lips are normally developed. There is no evidence of fracture or hemorrhage of the nose or mouth. The buccal mucosa and tongue show no lesions. The teeth are intact except that there is a prosthetic upper right central incisor. The ears reveal no evidence of trauma or hemorrhage. The neck is symmetrical and the trachea is palpable in the midline. The chest, abdomen, back, upper and lower extremities are normally developed. The abdomen is slightly protuberant, and there are no visible abdominal scars. The external genitalia are those of a normal adult male. There are no needle tracks in the antecubital fossae. There are no transverse scars on the wrists. The hands, fingers, and fingertips are intact. The wrists are handcuffed behind the back with the left over the right hand. After the handcuffs are removed, there are abrasion furrows where the handcuffs were. There are several tattoos on the body including barbed wire on the upper right arm, the head of a bird on the lower right shoulder area, unidentifiable large tattoo on the anterior left chest, what appears to be an eagle on the lateral left upper arm. Rigor mortis is moderate. Livor mortis is posterior and fixed. The back and posterior body surfaces reveal no abnormalities.

EXTERNAL EVIDENCE OF MEDICAL THERAPY

There is an oxygen cannula in the nose, an oral airway, defibrillator pads on the right chest and the lower left chest, EKGs on the right upper arm, right lower quadrant of the abdomen and left lower quadrant of the abdomen and there is an intraosseous needle in the lower right leg.

EXTERNAL EVIDENCE OF INJURY

On the lateral lower right back there is a 5 mm superficial laceration which is surrounded by a 2 mm abrasion. Above this also on the lower right back are approximately six purple contusions ranging in size from 1 to 4 cm. Within one of these purple contusions is a 2 mm laceration. There are four purple contusions each of which measures < 1 cm in the right antecubital fossa. Just above the fossa are multiple small red contusions. There is a vertical 3.5 cm linear abrasion on the upper posterior left forearm. There is a 5 mm abrasion on the posterior left 2nd finger

and a 5 mm abrasion on the posterior left 3rd finger. There is a 7 mm deep abrasion on the anterior left palm at the base of the 2nd finger. There is a 1 cm horizontal abrasion just to the right of the umbilicus. There are two small abrasions on the chin < 1 cm each. There is an 8 cm horizontal linear abrasion on the superior right shoulder. Six cm below this on the lateral upper right arm are parallel horizontal 7 cm abrasions. There is a 1.5 cm round faint red contusion on the lower anterior right chest just to the right of the midline. There are six horizontal vertical linear abrasions parallel to each other on the upper anterior medial right knee ranging in size from 5 mm to 1.5 cm. There is a "V"-shaped linear abrasion measuring 1.5 cm on the anterior right knee. There is a 1.2 cm purple contusion on the lateral left upper back. There is a 5 mm vertical abrasion on the lateral right knee. There are two faint purple contusions on the upper posterior left wrist 3 cm each. There is a 2 cm round red abrasion just below the right knee. There is a 3 cm "Y"-shaped horizontal abrasion on the upper anterior right leg. There is a 3 cm horizontal linear abrasion on the mid anterior lower right leg. There is a 2 cm red contusion on the posterior left forearm. There is a 1 x 3.5 cm abrasion on the lower right leg. There is a 6 cm round red contusion on the medial right ankle. There is a horizontal 15 cm linear abrasion on the medial lower left thigh. There is a 2 cm horizontal linear abrasion medial to the left knee. There is a 3 x 7 cm area of abrasion on the medial left knee. There is a 1 x 4 cm vertical abrasion on the lateral left knee. There are two parallel vertical abrasions of the upper anterior left knee 0.5 x 2 cm each. There is a 5 mm linear abrasion on the anterior left knee. There is a 1 cm squared abrasion on the anterior left knee. There are two adjacent 3 cm abrasions on the upper anterior left thigh which are somewhat vertical. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm faint red contusion which is round on the anterolateral lower left thigh. There is a 3.5 cm abrasion on the upper anterior lower left leg. Just below this is a 1 cm triangular-shaped abrasion. There is a 5 mm red contusion on the medial right ankle. There is a 1.5 cm faint red contusion on the lateral upper left calf. There is a 1.5 cm round red contusion on the lateral upper left thigh. There is a 1 cm round red contusion on the posterior medial left thigh. There is a 2 cm round red faint contusion on the lateral lower left thigh. There is a 2.5 x 4 cm red contusion on the right frontal scalp on the forehead.

INTERNAL EXAMINATION

The body is examined using the thoraco-abdominal and posterior scalp incisions.

HEAD:

The reflected scalp shows a 2.5 x 4 cm subgaleal red contusion on the right frontal scalp under the overlying contusion on the forehead. The calvarium and base of the skull are unremarkable. The right temporal muscle shows a 0.5 x 4 cm hemorrhage. The left temporal

muscle shows no hemorrhage. On removal of the calvarium, there is no evidence of epidural, subdural, or subarachnoid hemorrhage. The leptomeninges are thin and delicate. The tentorium, cerebellum, and falx are intact. The vessels at the base of the brain have a normal configuration and show no arteriosclerosis. The brain is symmetrical and weighs 1400 grams. The convolutionary pattern is smooth and symmetrical. The brain will be fixed and submitted to neuropathology for further examination. The dura is stripped and reveals no abnormalities at the base of the skull. The orbital roofs are intact and unremarkable.

NECK:

The neck is opened anteriorly and posteriorly after all other organs including the brain have been removed. Anteriorly, no abnormalities are noted in the anterior strap muscles, hyoid bone or cervical vertebral column. There is a small area of hemorrhage on the lower anterior thyroid cartilage. The neck is also opened posteriorly and no hemorrhage is noted in the muscles or ligaments. The cervical vertebrae are without injury. The spinal cord is exposed and appears normal in the neck.

BODY CAVITIES:

The pleural and peritoneal cavities are free of fluid or adhesions. The pericardium is thin and translucent and encloses a small amount of clear fluid. There are no pericardial adhesions. The diaphragm is intact and all organs are in their normal locations. The subcutaneous fat in the anterior abdominal wall measures approximately 1 inch.

CARDIOVASCULAR SYSTEM:

The 500 gram heart has a normal configuration but is slightly enlarged. The coronary arteries arise normally, and follow a normal distribution. The coronary arteries show no arteriosclerosis. The endocardium, pericardium, epicardium and cardiac valves are normal throughout. The left ventricular myocardium is somewhat enlarged with the free wall measuring 1 cm and the septum 1.5 cm. The papillary muscles and chordae are normal. The aorta shows a normal pathway and shows no arteriosclerosis.

RESPIRATORY SYSTEM:

The larynx and trachea are intact. The right lung weighs 650 grams and the left lung weighs 640 grams. The tracheo-bronchial tree follows its normal anatomic pathway and contains a slight amount of fluid. The intrinsic pulmonary vessels are patent and reveal no thrombo-emboli. There is congestion in all lobes of each lung. The cut surface discloses no focal abnormalities.

GASTROINTESTINAL SYSTEM:

The tongue, esophagus, stomach, small intestine and colon are unremarkable. The appendix is present. The contents of the stomach consist of 60 ml of blood without identifiable food particles or pills.

HEPATOBILIARY SYSTEM:

The 1480 gram liver has a normal size and shape. The capsule is intact. It has a normal consistency and a normal red-brown color throughout. The cut surface of the liver shows a nutmeg pattern suggestive of passive congestion. The gallbladder contains 8 cc of brown bile of normal viscosity. There are no stones. The extrahepatic biliary system is patent.

PANCREAS:

The pancreas is normal.

ENDOCRINE SYSTEM:

The thyroid and adrenal glands are normal.

HEMOLYMPHATIC SYSTEM:

The 180 gram spleen has an intact capsule and normal parenchyma. The white pulp is visible. The lymph nodes are unremarkable.

URINARY SYSTEM:

The right kidney weighs 140 grams and the left kidney weighs 180 grams. The capsules are smooth and strip with ease. Sectioning reveals normal cortices with distinct cortico-medullary junctions and normal renal pelves. The ureters and bladder have a normal configuration and the bladder contains 260 ml of urine. The bladder mucosa is normal.

REPRODUCTIVE SYSTEM:

The prostate gland is normal to palpation. The testicles are normal.

MUSCULOSKELETAL SYSTEM:

The bony framework is well developed and well retained. There is a linear fracture of the lateral right 2nd rib. There is hemorrhage of the posterior right 6th through 8th intercostal spaces. There is an 8 cm area of hemorrhage in the back muscles under the overlying group of contusions; 3-4 cm above this area of hemorrhage is a 7 cm area of hemorrhage in the muscle and the right side of the back close to the midline. No other injuries are noted in the skeletal structures or the muscles.

SPECIMENS FOR HISTOLOGY:

Representative sections of the major organs are submitted. The brain will be submitted to neuropathology.

SPECIMENS FOR TOXICOLOGY:

Femoral blood is submitted for drugs and alcohol. Vitreous is submitted for glucose, ketones and electrolytes. Heart blood, gastric contents, liver and bile are retained.

AUTOPSY WITNESS:

C. Castaneda, Forensic Assistant; Detective Hanshaw, CSI Technician M. Braz, Evidence Tech T. Newton, Sergeant Mancillas, Sonoma County Sheriff-Coroner's Office; T. Sanders and D. Urtan, Sonoma County District Attorney's Office.

ARJ/wcp
D: 05-17-17
T: 05-18-17

MICROSCOPIC DESCRIPTION:

Heart: There is an area of fibrosis with infiltration of lymphocytes, in the myocardium.

Lungs: There is congestion.

Liver: There is mild microvesicular fatty change.

Spleen: Congestion.

Kidneys: Tubular autolysis.

Thyroid: Congestion.

Pancreas: Autolysis.

Adrenal: Normal.

ARJ/wcp
D/T: 08-29-17

NMS LABS

NMS Labs
3701 Welsh Road, PO Box 433A, Willow Grove, PA 19090-0437
Phone: (215) 657-4900 Fax: (215) 657-2972
e-mail: nms@nmslabs.com
Robert A. Middleberg, PhD, F-ABFT, DABCC-TC, Laboratory Director

CONFIDENTIAL

COPY

Toxicology Report

Report Issued 06/02/2017 11:01

To: **10325**
Sonoma County Sheriff's Office
Attn: Sgt. Adrian Mancilla
3336 Chanate Road
Santa Rosa, CA 95404

Patient Name WROTH, BRANCH
Patient ID [redacted]
Chain [redacted]
Age 41 Y **DOB** [redacted]
Gender Male
Workorder [redacted]

RECEIVED
JUN 0 2 2017
SONOMA COUNTY CORONER

Positive Findings:

Compound	Result	Units	Matrix Source
Naloxone	Positive	ng/mL	001 - Femoral Blood
Delta-9 THC	5.3	ng/mL	001 - Femoral Blood
Amphetamine	320	ng/mL	001 - Femoral Blood
Methamphetamine	820	ng/mL	001 - Femoral Blood
Creatinine (Vitreous Fluid)	1.2	mg/dL	003 - Vitreous Fluid
Sodium (Vitreous Fluid)	127	mmol/L	003 - Vitreous Fluid
Potassium (Vitreous Fluid)	>20	mmol/L	003 - Vitreous Fluid
Chloride (Vitreous Fluid)	113	mmol/L	003 - Vitreous Fluid
Urea Nitrogen (Vitreous Fluid)	30	mg/dL	003 - Vitreous Fluid

See Detailed Findings section for additional information

Testing Requested:

Analysis Code	Description
1919FL	Electrolytes and Glucose Panel (Vitreous), Fluid (Forensic)
8052B	Postmortem, Expanded, Blood (Forensic)
2481FL	Ketone Panel, Fluid

Specimens Received:

ID	Tube/Container	Volume/ Mass	Collection Date/Time	Matrix Source	Miscellaneous Information
001	Gray Top Tube	8.75 mL	05/15/2017 15:15	Femoral Blood	
002	Gray Top Tube	4.5 mL	05/15/2017 15:15	Femoral Blood	
003	Red Top Tube	2.75 mL	05/17/2017	Vitreous Fluid	

All sample volumes/weights are approximations.

Specimens received on 05/23/2017, 05/17/2017.

Detailed Findings:

Analysis and Comments	Result	Units	Rpt. Limit	Specimen Source	Analysis By
Naloxone	Positive	ng/mL	1.0	001 - Femoral Blood	LC/TOF-MS
Delta-9 THC	5.3	ng/mL	0.50	001 - Femoral Blood	LC-MS/MS
Amphetamine	320	ng/mL	5.0	001 - Femoral Blood	LC-MS/MS
Methamphetamine	820	ng/mL	5.0	001 - Femoral Blood	LC-MS/MS
Creatinine (Vitreous Fluid)	1.2	mg/dL	0.050	003 - Vitreous Fluid	Colorimetry
Sodium (Vitreous Fluid)	127	mmol/L	80	003 - Vitreous Fluid	Chemistry Analyzer
Potassium (Vitreous Fluid)	>20	mmol/L	1.0	003 - Vitreous Fluid	Chemistry Analyzer
Chloride (Vitreous Fluid)	113	mmol/L	70	003 - Vitreous Fluid	Chemistry Analyzer
Glucose (Vitreous Fluid)	None Detected	mg/dL	35	003 - Vitreous Fluid	Chemistry Analyzer
Urea Nitrogen (Vitreous Fluid)	30	mg/dL	3.0	003 - Vitreous Fluid	Chemistry Analyzer

Other than the above findings, examination of the specimen(s) submitted did not reveal any positive findings of toxicological significance by procedures outlined in the accompanying Analysis Summary.

Reference Comments:

1. Amphetamine (Benzphetamine Metabolite) - Femoral Blood:

   Amphetamine (Adderall, Dexedrine) is a Schedule II phenethylamine CNS-stimulant. It is used therapeutically in the treatment of narcolepsy and obesity and also in the treatment of hyperactivity in children. Amphetamine has a high potential for abuse. When used in therapy, initial doses should be small and increased gradually. In the treatment of narcolepsy, amphetamine is administered in daily divided doses of 5 to 60 mg. For obesity and children with attention deficits, usual dosage is 5 or 10 mg daily.

   Following a single oral dose of 10 mg amphetamine sulfate, a reported peak blood concentration of 40 ng/mL was reached at 2 hr. Following a single 30 mg dose to adults, an average peak plasma level of 100 ng/mL was reported at 2.5 hr. A steady-state blood level of 2000 - 3000 ng/mL was reported in an addict who consumed approximately 1000 mg daily.

   Overdose with amphetamine can produce restlessness, hyperthermia, convulsions, hallucinations, respiratory and/or cardiac failure. Reported blood concentrations in amphetamine-related fatalities ranged from 500 - 41000 ng/mL (mean, 9000 ng/mL). Amphetamine is also a metabolite of methamphetamine, benzphetamine and selegiline.

2. Chloride (Vitreous Fluid) - Vitreous Fluid:

   Normal: 105 - 135 mmol/L

3. Creatinine (Vitreous Fluid) - Vitreous Fluid:

   Normal: 0.6 - 1.3 mg/dL

Reference Comments:

4. Delta-9 THC (Active Ingredient of Marijuana) - Femoral Blood:

   Marijuana is a DEA Schedule I hallucinogen. Pharmacologically, it has depressant and reality distorting effects. Collectively, the chemical compounds that comprise marijuana are known as Cannabinoids.

   Delta-9-THC is the principle psychoactive ingredient of marijuana/hashish. It rapidly leaves the blood, even during smoking, falling to below detectable levels within several hours. Delta-9-carboxy-THC (THCC) is the inactive metabolite of THC and may be detected for up to one day or more in blood. Both delta-9-THC and THCC may be present substantially longer in chronic users.
   THC concentrations in blood are usually about one-half of serum/plasma concentrations. Usual peak levels in serum for 1.75% or 3.55% THC marijuana cigarettes: 50 - 270 ng/mL at 6 to 9 minutes after beginning smoking, decreasing to less than 5 ng/mL by 2 hrs.

5. Glucose (Vitreous Fluid) - Vitreous Fluid:

   Normal: <200 mg/dL

   Postmortem vitreous glucose concentrations >200 mg/dL are associated with hyperglycemia.

   Since postmortem vitreous glucose concentrations decline rapidly after death both in vivo and in vitro, care should be taken in the interpretation of results. Stability of vitreous glucose for up to 30 days has been noted by NMS Labs when specimens are maintained frozen (-20°C).

6. Methamphetamine (Benzphetamine Metabolite) - Femoral Blood:

   d-methamphetamine is a DEA schedule II stimulant drug capable of causing hallucinations, aggressive behavior and irrational reactions. Chemically, there are two forms (isomers) of methamphetamine: l- and d-methamphetamine. The l-isomer is used in non-prescription inhalers as a decongestant and has weak CNS-stimulatory activity. The d-isomer has been used therapeutically as an anorexigenic agent in the treatment of obesity and has potent CNS-, cardiac- and circulatory-stimulatory activity. Amphetamine and norephedrine (phenylpropanolamine) are metabolites of methamphetamine. d-methamphetamine is an abused substance because of its stimulatory effects and is also addictive.

   A peak blood concentration of methamphetamine of 20 ng/mL was reported at 2.5 hr after an oral dosage of 12.5 mg. Blood levels of 200 - 600 ng/mL have been reported in methamphetamine abusers who exhibited violent and irrational behavior. High doses of methamphetamine can also elicit restlessness, confusion, hallucinations, circulatory collapse and convulsions.

   *In this case, the level of methamphetamine determined has not been differentiated according to its isomeric forms. Differentiation of the isomers of methamphetamine is available upon request.

7. Naloxone (Narcan®) - Femoral Blood:

   Naloxone is a narcotic antagonist used to counter the central nervous system depression effects of opioids, including respiratory depression. It is also used for the diagnosis of suspected acute opioid overdosage. Naloxone is available as a 0.4 mg/mL solution of the hydrochloride for parenteral injection.

   Naloxone is also available in combination with buprenorphine (Suboxone®) for the treatment of opioid dependence. This combination is available in tablets of 2 mg buprenorphine with 0.5 mg naloxone or 8 mg buprenorphine with 2 mg of naloxone for sublingual administration.

   The reported qualitative result for this substance was based upon a single analysis only. If confirmation testing is required please contact the laboratory.

8. Potassium (Vitreous Fluid) - Vitreous Fluid:

   Normal: <15 mmol/L
   Quantitative results for Potassium will be affected if performed on gray top tubes since these collection tubes contain potassium oxalate.

9. Sodium (Vitreous Fluid) - Vitreous Fluid:

   Normal: 135 - 150 mmol/L
   Quantitative results for sodium will be affected if performed on gray top tubes since these collection tubes contain sodium fluoride.

Reference Comments:

10. Urea Nitrogen (Vitreous Fluid) - Vitreous Fluid:
    Normal: 8 - 20 mg/dL

Unless alternate arrangements are made by you, the remainder of the submitted specimens will be discarded two (2) years from the date of this report; and generated data will be discarded five (5) years from the date the analyses were performed.

Workorder 17153513 was electronically signed on 06/02/2017 10:39 by:

Daniel S. Isenschmid, Ph.D., F-ABFT
Forensic Toxicologist

Analysis Summary and Reporting Limits:

All of the following tests were performed for this case. For each test, the compounds listed were included in the scope. The Reporting Limit listed for each compound represents the lowest concentration of the compound that will be reported as being positive. If the compound is listed as None Detected, it is not present above the Reporting Limit. Please refer to the Positive Findings section of the report for those compounds that were identified as being present.

Acode 1919FL - Electrolytes and Glucose Panel (Vitreous), Fluid (Forensic) - Vitreous Fluid

-Analysis by Chemistry Analyzer for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Chloride (Vitreous Fluid)	70 mmol/L	Sodium (Vitreous Fluid)	80 mmol/L
Glucose (Vitreous Fluid)	35 mg/dL	Urea Nitrogen (Vitreous Fluid)	3.0 mg/dL
Potassium (Vitreous Fluid)	1.0 mmol/L		

-Analysis by Colorimetry (C) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Creatinine (Vitreous Fluid)	0.050 mg/dL		

Acode 2481FL - Ketone Panel, Fluid - Vitreous Fluid

-Analysis by Headspace Gas Chromatography (GC) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Acetone	10 mg/dL	Methyl Isoamyl Ketone	1.0 mcg/mL
Cyclohexanone	0.50 mcg/mL	Methyl Isobutyl Ketone	1.0 mcg/mL
Diisobutyl Ketone	1.0 mcg/mL	Methyl n-Amyl Ketone	1.0 mcg/mL
Mesityl Oxide	1.0 mcg/mL	Methyl n-Butyl Ketone	1.0 mcg/mL
Methyl Ethyl Ketone	1.0 mcg/mL	Methyl n-Propyl Ketone	1.0 mcg/mL

Acode 52198B - Cannabinoids Confirmation, Blood (Forensic) - Femoral Blood

-Analysis by High Performance Liquid Chromatography/ TandemMass Spectrometry (LC-MS/MS) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
11-Hydroxy Delta-9 THC	1.0 ng/mL	Delta-9 THC	0.50 ng/mL
Delta-9 Carboxy THC	5.0 ng/mL		

Acode 52485B - Amphetamines Confirmation, Blood (Forensic) - Femoral Blood

Analysis Summary and Reporting Limits:

-Analysis by High Performance Liquid Chromatography/ TandemMass Spectrometry (LC-MS/MS) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Amphetamine	5.0 ng/mL	Norpseudoephedrine	5.0 ng/mL
Ephedrine	5.0 ng/mL	Phentermine	10 ng/mL
MDA	5.0 ng/mL	Phenylpropanolamine	5.0 ng/mL
MDEA	10 ng/mL	Pseudoephedrine	5.0 ng/mL
Methamphetamine	5.0 ng/mL		

Acode 8052B - Postmortem, Expanded, Blood (Forensic) - Femoral Blood

-Analysis by Enzyme-Linked Immunosorbent Assay (ELISA) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Barbiturates	0.040 mcg/mL	Salicylates	120 mcg/mL
Cannabinoids	10 ng/mL		

-Analysis by Headspace Gas Chromatography (GC) for:

Compound	Rpt. Limit	Compound	Rpt. Limit
Acetone	5.0 mg/dL	Isopropanol	5.0 mg/dL
Ethanol	10 mg/dL	Methanol	5.0 mg/dL

-Analysis by High Performance Liquid Chromatography/Time ofFlight-Mass Spectrometry (LC/TOF-MS) for: The following is a general list of compound classes included in this screen. The detection of any specific analyte is concentration-dependent. Note, not all known analytes in each specified compound class are included. Some specific analytes outside these classes are also included. For a detailed list of all analytes and reporting limits, please contact NMS Labs.
Amphetamines, Anticonvulsants, Antidepressants, Antihistamines, Antipsychotic Agents, Benzodiazepines, CNS Stimulants, Cocaine and Metabolites, Hallucinogens, Hypnosedatives, Hypoglycemics, Muscle Relaxants, Non-Steroidal Anti-Inflammatory Agents, Opiates and Opioids.

COPY

RECEIVED
AUG 30 2017
SONOMA COUNTY CORONER

BENNET OMALU PATHOLOGY

Phone: 916-513-5253
Fax: 866-402-6875
E-mail: bennetomalu@bennetomalu.com

Public Health Management
Anatomic Pathology
Clinical Pathology and Toxicology
Forensic Pathology
Neuropathology
Epidemiology
Medico-legal Consultations

FORENSIC NEUROPATHOLOGY REPORT

NAME: BRANCH CHRISTOPHER WROTH

CASE NO.: SON17-007

AGE: 41 years old

SEX: Male

FINAL NEUROPATHOLOGICAL DIAGNOSES

ADULT BRAIN:

I. CONGESTIVE BRAIN SWELLING, GLOBAL, WITH DIFFUSE CEREBRAL PARENCHYMAL EDEMA, ACUTE, MIXED CYTOTOXIC-VASOGENIC, BRAIN WEIGHT: 1413 GRAMS
   a. Selective neuronal excitotoxic injury, early, with selective topographic vulnerability
   b. Congestive encephalopathy, acute, marked
   c. Scattered foci of parenchymal autolysis, centrum semiovale and subcortical ganglia
   d. No APP-immunopositive axonal bulbs, axonal spheroids or swollen, distorted axonal forms

II. FOCAL MID-SAGITTAL MICRO-LACERATION WITH SURROUNDING MICROHEMORRHAGES, SUPERIOR SPLENIUM OF THE CORPUS CALLOSUM

Bennet I. Omalu, MD, MBA, MPH, CPE, DABP-AP,CP,FP,NP
Forensic Pathologist/ Neuropathologist
06/23/17

GROSS DESCRIPTION

BRAIN:
The weight of the formaldehyde fixed brain is 1413 grams. The brain stem and cerebellum weigh 181 grams. The anthropometric dimensions of the brain appear consistent with a well-developed brain. The surfaces of the brain reveal no gross malformations. The cerebral hemispheres appear symmetrical and reveal a pattern of gyral and sulcal convolutions that appears within normal limits without holoprosencephaly, agyria, pachygyria, ulegyria or polymicrogyria. There is no hydranencephaly, basket brain, porencephaly or schizencephaly. There is diffuse symmetrical expansion of gyri and compression of sulci, accompanied by bilateral symmetrical grooving of the unci and cerebellar tonsils without necrosis.

The arachnoid and pia mater appear smooth and glistening in the dorsal and basal hemispheric surfaces and show patchy bilateral arachnoidal congestion without gross hemorrhages or exudates. The subarachnoidal cisterns are symmetrically compressed and contain no hemorrhage or exudate. The vessels of the Circle of Willis and the Basilar-Vertebral arteries are identified and reveal no anomalies, significant atherosclerosis or any aneurysm. The cranial nerves are identified and appear intact, without atrophy or tumor. There is no olfactory aplasia. There are no optic nerve subdural hemorrhages. The optic chiasm appears intact.

A mid-coronal section at the level of the mamillary bodies is made exposing the anterior midbrain and cerebral peduncles. A transverse axial section is made at the level of the posterior commissure separating the brainstem and cerebellum from the diencephalon (thalami) and telencephalon (cerebral hemispheres). Multiple serial coronal sections are made at 1 – 2 cm intervals from the occipital pole to the frontal pole. The neocortical gray ribbon is distinct and reveals no gross cortical dysplasia, contusional hemorrhage or necrosis. The gray-white matter demarcation is blurry. The centrum semiovale and the periventricular white matter reveal central congestion and edema without cystic necrosis, demyelination or gliding contusional hemorrhages. There is no periventricular leukomalacia, necrosis or nodule.

The ventricles are symmetrically compressed and contain no intraventricular hemorrhage or exudate. The ependymal lining is smooth and glistening. There is no evidence of intraventricular obstruction. The cerebral aqueduct of Sylvius appears patent. The foramen of Magendie and foramina of Lushka are patent. The choroid plexuses appear congested. The septum pellucidum, the lamina terminalis, superior and inferior medullary vela appear intact. The genu, body and splenium of the corpus callosum are intact and reveal no focal hemorrhages or necrosis.

The claustrum, caudate nucleus, putamen, globus pallidus, thalamus and subthalamic nucleus reveal no atrophy, hemorrhage or necrosis. The extreme, external and internal capsules reveal no infarcts or necrosis. The anterior perforated substance shows no necrosis or hemorrhage. The amygdala and the piriform cortex reveal no focal necrosis or hemorrhage. The hippocampus and parahippocampal gyrus reveal no dysplasia, atrophy, hemorrhage or necrosis. The mamillary bodies and hypothalamus reveal no atrophy, xanthochromia or hemorrhage.

The brain stem is separated from the cerebellum at the cerebellar peduncles and multiple transverse sections of the caudal and rostral midbrain, pons and medulla oblongata, reveal no focal necrosis or hemorrhage. There are no dorsolateral hemorrhages or necrosis. There is no hemorrhagic collicular necrosis. The cerebral peduncles show no necrosis. The substantia nigra and locus ceruleus are adequately pigmented for age. The midbrain tegmentum reveals no focal necrosis or hemorrhage, as well as the pontine and medullary tegmentum. The basis pontis shows no central myelinolysis, necrosis or hemorrhage. The medullary pyramids reveal no focal necrosis or infarct.

The cerebellar hemispheres are symmetrical and reveal no malformation or folial atrophy. The primary fissure and the posterolateral fissures are identified as well as the flocculonodular, anterior and posterior lobes. The vermis and paravermal zones are neither cystic nor atrophic. Multiple sagittal sections of the cerebellum reveal no gross cortical dysplasia or necrosis. The cerebellar white matter shows no focal necrosis or hemorrhage. The dentate nucleus and other deep cerebellar nuclei appear unremarkable. The inferior (restiform body), middle (brachium pontis) and the superior (brachium conjunctivum) cerebellar peduncles reveal no hemorrhages.

Representative sections of tissue are submitted for histologic tissue processing as follows:

1. Frontal lobe, left
2. Cingulate gyrus, corpus callosum and caudate nucleus, left
3. Insula cortex, putamen and globus pallidus, left
4. Hippocampus, left
5. Thalamus, left
6. Midbrain
7. Pons
8. Medulla
9. Cerebellum
10. Corpus callosum, splenium
11. Hippocampus, right
12. Parietal lobe, right

MICROSCOPIC DESCRIPTION

Examination of hematoxylin and eosin stained sections of the neocortex reveals a homogenetic cortex with a homotypical laminar and columnar organization. There is no cortical disorganization, diffuse or nodular neuronal heterotopia. There is no significant neuronal drop-out or astrogliosis. There are many scattered amphophilic, pyknotic neurons in the neocortex. There is diffuse perineuronal vacuolation, accompanied by expansion of Virchow Robin spaces and neuropil microsponglosis of both the gray and white matter. The arachnoid mater, pia mater, penetrating vessels and the Virchow Robin's spaces reveal marked congestion with multifocal and marked perivascular microextravasates. There are multifocal and sparse lymphocytes and histiocytes in the Virchow Robin spaces of several penetrating parenchymal blood vessels. The centrum semiovale, the body and splenium of the corpus callosum reveal diffuse neuropil edema and marked vascular congestion without focal demyelination. The superior splenium of the corpus callosum shows a focal mid-sagittal micro-laceration with surrounding microhemorrhages. There is no periventricular leukomalacia. The subependymal white matter is non-gliotic and the ependymal cells show intermittent denudation without any inflammation. There are scattered foci of parenchymal autolysis in the centrum semiovale and subcortical ganglia.

The dentate gyrus and cornu ammonis of the hippocampus reveal neuropil edema and marked vascular congestion without any dysplasia or sclerosis. The stratum pyramidalis of the Sommer's sector (CA1), CA2, CA3 and CA4 regions of the cornu ammonis reveal many eosinophilic and pyknotic pyramidal neurons in the Sommer's sector. The entorhinal cortex and the alveus reveal no focal necrosis. The internal, external and extreme capsules reveal diffuse neuropil edema without focal infarct or necrosis. The claustrum, caudate nucleus, putamen, globus pallidus and thalamus reveal diffuse neuropil edema and marked vascular congestion with few scattered amphophilic and pyknotic neurons without focal necrosis or hemorrhage, and without significant neuronal dropout. There is no mineralization of the walls of the vessels of the globus pallidus or hippocampus.

The midbrain tectum and tegmentum, and the periaqueductal gray matter reveal few scattered eosinophilic neurons with diffuse neuropil edema, marked vascular congestion and perivascular micro-extravasates. The substantia nigra (pars reticularis and pars compacta) and locus ceruleus reveal adequately pigmented neurons without significant neuronal dropout and show few amphophilic

neurons. There is no dorsolateral or collicular necrosis or hemorrhage. The cerebral peduncles show no focal necrosis. The basis pontis shows diffuse edema with marked vascular congestion and perivascular microextravasates without any focal demyelination or necrosis. The pontine nuclei, pontine tegmentum, medullary tegmentum and inferior olivary nuclei reveal diffuse edema and marked vascular congestion with perivascular microextravasates and few amphophilic neurons, without focal necrosis or myelinolysis. The choroid plexus is markedly congested and reveals few scattered calcospherites. The medullary pyramids show no necrosis.

The cerebellar cortex reveals no dysplasia. The Purkinje neurons show many scattered eosinophilic and amphophilic pyknotic neurons with mild neuronal dropout. The internal granule cell layer shows no autolysis. The dentate nucleus shows many scattered eosinophilic, amphophilic and pyknotic neurons without significant dropout. There is diffuse edema, with marked vascular congestion and perivascular microextravasates in the cerebellar arachnoid mater, cerebellar cortex and cerebellar white matter without focal necrosis.

OTHER SPECIALIZED STUDIES

Immunohistochemical stains for Amyloid Precursor Protein [APP] are performed on sections obtained from the following tissue blocks:

1. Frontal lobe, left
4. Hippocampus, left
5. Thalamus, left
6. Midbrain
8. Medulla
10. Corpus callosum, splenium
12. Parietal lobe, right

Examination of the APP-immunostained sections reveal no APP-immunopositive traumatic axonal bulb, axonal spheroid or swollen, distorted axonal forms in all sections examined.

CURRICULUM VITAE AND BIBLIOGRAPHY

PART 1: CURRICULUM VITAE

BENNET I. OMALU, MD, MBA, MPH, CPE, DABP-AP,CP,FP,NP

Anatomic Pathologist/ Clinical Pathologist/ Forensic Pathologist/ Neuropathologist/ Epidemiologist
Clinical Professor of Medical Pathology and Laboratory Medicine, University of California, Davis [UC-Davis]
Chief Medical Examiner, San Joaquin County, California
Co-Founder, TauMark, Inc, Better Brain Diagnostics
Founder, Bennet Omalu Pathology [BOP], Inc.

Honorary Degrees:

1. Doctor of Science
   Westminster College
   Fulton, Missouri, September 15, 2016

2. Doctor of Science
   Xavier University of Louisiana
   New Orleans, Louisiana, May 7, 2016

3. Doctor of Science
   Royal College of Surgeons in Ireland
   Dublin, Ireland, June 7, 2017

Degrees and Certifications:

1. Board Certification in Anatomic Pathology (AP)
   Diplomate, American Board of Pathology
   American Board of Pathology, July 2002.

2. Board Certification in Clinical Pathology (CP)
   Diplomate, American Board of Pathology
   American Board of Pathology, July 2003.

3. Board Certification in Forensic Pathology (FP)
   Diplomate, American Board of Pathology
   American Board of Pathology, November 2004.

4. Board Certification in Neuropathology (NP)
   Diplomate, American Board of Pathology
   American Board of Pathology, September 2005.

5. Board Certification in Medical Management
   Certified Physician Executive [CPE]
   Certifying Commission in Medical Management
   American College of Physician Executives, February 2011

6. Masters in Public Health (MPH), Epidemiology
   University of Pittsburgh, Graduate School of Public Health
   Pittsburgh, Pennsylvania, April 2004.

7. Masters in Business Administration [MBA]
   Tepper School of Business, Carnegie-Mellon University
   Pittsburgh, Pennsylvania, May 2008.

8. One year clinical Internship Certificate, general/ family practice
   University of Nigeria Teaching Hospital, Enugu, Nigeria, January 1992.

9. Bachelor of Medicine and Bachelor of Surgery (M. B., B. S.)
University of Nigeria, Enugu, Nigeria, June 1990.

10. United States Medical Licensing Examinations (Steps I and II), September 1993.

11. United States Medical Licensing Examination Step III, May 1998.

12. Grade 1 certificate in the Theory of Music, The Royal Schools of Music, London, England, 1981.

Professional and Post-Graduate Education and Training

1.	College of Medicine, University of Nigeria, Enugu, Nigeria.	July 1984 - July 1990
2.	House Physician, Department of Pediatrics, Enugu General Hospital, Enugu, Nigeria.	August 1990 - Dec. 1990
3.	Internship in General/ Family Practice, University of Nigeria, Hospital, Enugu, Nigeria.	January 1991 - January 1992
4.	Emergency Room Physician, Jos University Hospital, Jos, Nigeria.	March 1992 - October 1994
5.	Visiting/ Research Scholar, Cancer Epidemiology, Dept. of Epidemiology, School of Public Health, University of Washington, Seattle.	October 1994 - June 1995
6.	Pathology Residency, Anatomic/ Clinical College of Physicians and Surgeons of Columbia University, Harlem Hospital Center, New York City.	July 1995 - June 1999
7.	Fellowship training in Forensic Pathology, Allegheny County Coroner's Office University of Pittsburgh, Pittsburgh, Pennsylvania.	July 1999 - June 2000
8.	Fellowship training in Neuropathology, University of Pittsburgh Medical Center University of Pittsburgh, Pittsburgh, Pennsylvania.	July 2000 - June 2002
9.	Masters in Public Health: Epidemiology Graduate School of Public Health University of Pittsburgh, Pittsburgh, Pennsylvania	June 2002 – April 2004

10. Masters in Business Administration
    Tepper School of Business
    Carnegie Mellon University, Pittsburgh, Pennsylvania August 2005 – May 2008

Medical Licensure

1. License of practice as a physician, unrestricted, State of Indiana September 1998
2. License of practice as a physician, unrestricted, State of Pennsylvania October 1998
3. License of practice as a physician, unrestricted, State of Hawaii January 2003
4. License of practice as a physician, unrestricted, State of California June 2007

Professional Medical Affiliations and Memberships

1. Member, American Association of Physician Leadership, 2006 – present
2. Member, American Association for the Advancement of Science [AAAS], 2005 – present
3. Fellow, College of American Pathologists (CAP), 1995 – present
4. Fellow, American Society of Clinical Pathologists (ASCP), 1995 – present
5. Member, American Association of Neuropathologists (AANP), 2002 – present
6. Member, National Association of Medical Examiners (NAME), 1999 – present
7. Member, American Academy of Forensic Sciences, 2004 – present
8. Member, United States and Canadian Academy of Pathology, 2003 – present
9. Member, International Academy of Pathology, 2003 – present
10. Fellow, American College of Epidemiology, 2004 – present
11. Member, American Association of Public Health Physicians, 2004 – present
12. Member, American Public Health Association, 2004 - present
13. Member, American Society for Investigative Pathology, 2004 - present
14. Member, American Medical Association (AMA), 2002 - present
15. Member, San Joaquin Medical Society, 2009 – present
16. Member, California Medical Society, 2009 – present
17. Member, California Society of Pathologists, 2015 - present
18. Member, Union of American Physicians and Dentists, 2007 - present
19. Member, Pennsylvania Medical Society, 2003 - 2007

20. Member, Allegheny County Medical Society, 2003 – 2007
21. Member, New York County Medical Society, 1997 - 1999
22. Member, Nigerian Medical and Dental Council, 1990
23. Member, Association of Nigerian Physicians in the Americas, 2017 - present

Appointments

1. Visiting Professor, Emory University, Department of Pathology and Laboratory Medicine, March 2017.
2. Clinical Professor, Department of Medical Pathology and Laboratory Medicine, University of California, Davis, January 2017 – Present.
3. Co-Director/Co-Founder, Taumark, Inc, Better Brain Diagnostics, May 2013 – present.
4. Chief Medical Examiner, Washington, D.C. Appointed on October 11, 2013. Declined Offer.
5. Co-Director, Brain Injury Research Institute, West Virginia University/NorthShore University Health System, November 2009 – present.
6. Visiting Professor, Department of Neurosurgery, West Virginia University, Dec. 2009 – Dec. 2011
7. Member, NFL Players Association Concussion and Traumatic Brain Injury Committee, December 2009 – 2012.
8. Visiting Professor, Rockefeller Institute of Neuroscience, Morgantown, Virginia, August 2009 – April 2010.
9. Chief Medical Examiner, San Joaquin County, California, September 2007 – present.
10. Associate Clinical Professor, Department of Medical Pathology and Laboratory Medicine, University of California, Davis, September 2013 – January 2017.
11. Clinical Professor of Pathology, Department of Pathology, University of California, Davis, March 2012 – July 2013.
12. Associate Physician Diplomate, Medical Pathology and Laboratory Medicine, University of California-Davis Medical Center, March 2012 – July 2013.
13. Associate Clinical Professor of Pathology, Department of Pathology, University of California, Davis, May 2008 – January 2012.
14. Adjunct Assistant Professor of Pathology, University of Pittsburgh, Pittsburgh, Pennsylvania, June 2010 – 2012.

15. Assistant Clinical Professor of Epidemiology, Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, March 2004 – 2008
16. Clinical Associate Professor of Pathology and Clinical Instructor, Department of Pathology, University of Pittsburgh, Pittsburgh, Pennsylvania, May 2003 – 2009
17. Attending Forensic Pathologist, Allegheny County Coroner's Office, July 2002 – March 2007
18. Attending Forensic Neuropathologist, Allegheny County Coroner's Office, July 2002 – March 2007
19. Associate Forensic Pathologist, Allegheny County Coroner's Office, July 2000 – June 2002

Hospital Admissions and Practice Privileges

1. University of California, Davis, Health System/ Medical Center — March 2012 to July 2013
   Department of Medical Pathology and Laboratory Medicine
   2315 Stockton Blvd
   Sacramento, CA 95817

2. Contra Costa Regional Medical Center — January 2013 to Present
   Department of Pathology
   2500 Alhambra Avenue
   Martinez, CA 94553

3. San Joaquin General Hospital — September 2007 to Present
   Department of Pathology
   500 West Hospital Place
   French Camp, CA 95231

4. Yosemite Pathology Medical Group — August 2017 to Present
   Business Associate- Autopsy Services
   2625 Coffee Road
   Modesto, CA 95355

Journal Editorial and Peer Review Experience

1. Associate Editor, Neurosurgery Journal, Sports and Rehabilitation Section, September 2009 – 2014
2. Reviewer, Militarily Relevant Peer Reviewed Alzheimer's Disease Research Program (MRPRA), 2012: American Institute of Biological Sciences [AIBS], Scientific Peer Advisory and Review Services Panel.
3. Reviewer, Nigerian Journal of Clinical Practice, February, 2011 to 2014
4. Reviewer, Nigerian Journal of Surgery, October 2011
5. Reviewer, The Journal of Neuropsychiatry and Clinical Neurosciences, April 2012
6. Reviewer, The Journal of Forensic Nursing, June 2009, October 2012, February 2013
7. Reviewer, Forensic Science, Medicine and Pathology, November 2012

Consulting and Peer Review Assignments

1. Consulting Forensic Pathologist/ Neuropathologist, Cyril H. Wecht and Pathology Associates Inc. June 2000 – January 2006.
2. Consulting Forensic Neuropathologist, Office of the Chief Medical Examiner, Commonwealth of Virginia: August 2006 – December 2012
3. Consulting Forensic Neuropathologist, Office of the Coroner/Medical Examiner, Clark County, Las Vegas, Nevada, September 2007 – December 2012
4. Consulting Forensic Neuropathologist, Office of the Coroner/Medical Examiner, Washoe County, Reno, Nevada, 2009 – present
5. Consulting Forensic Pathologist, Solano County Coroner's Office, California, 2011 - 2012
6. Consulting Neuropathologist, Conemaugh Memorial Hospital, Johnstown, Pennsylvania: August 2003 – August 2007
7. Consulting Expert Witness/Forensic Pathologist/Neuropathologist, Public Defender's Office, County of Sacramento, California, April 2010 – present.
8. Consulting Forensic Neuropathologist, Medical Examiner's Office, Allegheny County, Pittsburgh, Pennsylvania, January, 2011.
9. Consulting Forensic Neuropathologist, Medical Examiner's Office, County of Summit, Akron, Ohio. October, 2011.
10. Consulting Forensic Neuropathologist, American Forensics, Dallas, Texas. October, 2011.

Congressional Hearing, Testimony and Briefing

The Congress of the United States

1. One Hundred and Eleventh Congress, Congress of the United States, House of Representatives, Committee on the Judiciary, Field Hearing: Legal Issues Relating to Football Head Injuries, Part II, Monday, January 4th, 2010.

2. One Hundred and Eleventh Congress, Congress of the United States, House of Representatives, Committee on the Judiciary, Judiciary Forum: Head and Other Injuries in Youth, High School, College and Professional Football, Monday, February 1, 2010.

3. One Hundred and Fourteenth Congress, Congress of the United States, House of Representatives: Dr. Omalu's Briefing on his Work and Legacy. Energy and Commerce Committee Room, 2123 Rayburn HOB. Tuesday, January 12, 2016.

California State Assembly

1. Testimony in support of AB 2007- Concussion Management for Youth Sports Leagues, Committee on Arts, Entertainment, Sports, Tourism and Internet Media, Tuesday, May 3, 2016.

New York State Assembly

1. Testimony in support of A4448- An act to amend the public health law, in relation to prohibiting children thirteen years old and younger from playing tackle football. Roundtable discussion before Concussion movie screening to New York State Assembly and New York State Senate Members. Wednesday, May 4, 2016.

Selected Honors, Awards, Recognition and Achievements

1. Honorary Member Award, Academy for Sports Dentistry, June 23, 2017, San Francisco, California.

2. Residents Choice Award, 2017, Emory University School of Medicine, Department of Pathology and Laboratory Medicine, March 13, 2017.

3. Joint Members Resolution No. 116 to Commend Dr. Bennet Omalu for Exemplary Record of Medical Achievements, State of California Legislature, February 22, 2017.

4. Certificate of Recognition, Board of Supervisors, San Joaquin County, for contributions and distinguished service to San Joaquin County, January 10, 2017, Stockton, California.

5. Outstanding Achievement in Medicine Award, The San Joaquin Medical Society, Stockton, California, December 15, 2016.

6. Rescuer of Humanity Award, 2016, Values-in-Action Foundation, Cleveland, Ohio, December 6, 2016.

7. Service To Science Award, 2016 D. Walter Cohen, DDS Award, NDRI [National Disease Research Interchange], November 18, 2016, Philadelphia, Pennsylvania.

8. Distinguished Service Award [The highest award of the American Medical Association-AMA], November 12, 2016, AMA Interim Meeting, 2016, Orlando, Florida.

9. Beacon of Ethics Award, The Greater Omaha Alliance For Business At Creighton University, Better Business Bureau Annual Integrity Awards Luncheon, November 2, 2016.

10. Healing Hand Award, The El Paso Hispanic Chamber of Commerce, 26th Anniversary Fiesta Celebration and Pinata Bash, October 15, 2016.

11. Honorary Lifetime Membership, The National Honor Society in Neuroscience [Nu Rho Psi], University of Evansville, Indiana, October 13, 2016.

12. Invited Guest and Speaker, Camp Fire 2016, Santa Barbara, California, September 29 – October 2, 2016.

13. Special Tribute to Bennet Omalu, State of Michigan, The Ninety-Eighth Legislature, At Lansing, September 20, 2016.

14. The Louise Blouin Foundation Award for a Positive Impact on a Global Scale, The Eleventh Annual Awards, The Blouin Creative Leadership Summit Awards Reception, September 19, 2016, New York City.

15. Above and Beyond Award, 2016. The Network of Ethnic Physician Organization and The California Medical Association Foundation, September 17, 2016.

16. The 2016 Green Lecture Speaker, Westminster College, Fulton, Missouri, September 15, 2016.

17. 2016 Distinguished Great Immigrant, Carnegie Corporation of New York, June 30, 2016.

18. 2016 Dr. Ernst Jokl Sports Medicine Award, Unites States Sports Academy, June 29, 2016.

19. Key Note Speaker, 2016 Commencement, University of California, Davis, School of Medicine, May 28, 2016.

20. Honorary Fellow, American Association of Physician Leadership, April 15, 2016, Washington, DC.

21. Invited Speaker, W.L. Mellon Speaker Series, April 14, 2016, Tepper School of Business, Carnegie Mellon University, Pittsburgh, Pennsylvania.

22. Pioneer in Medicine Award, 2016, The Society for Brain Mapping and Therapeutics (SBMT), April 9th, 2016, 13th Annual World Congress for Brain Mapping and Therapeutics, Miami, Florida.

23. 2016 Red Cross Heroes-Spirit of the Red Cross Award. The American Red Cross, Gold Country Region. March 16, 2016.

24. Contribution to Science and Education Award, 37th Annual Young Artist Awards, The Young Artist Foundation, Los Angeles, California, March 13, 2016.

25. Congressional Honors, United States Congress, House of Representatives, for the discovery of Chronic Traumatic Encephalopathy and Raising Awareness on Repetitive Brain Trauma, Wednesday, February 3, 2016, Congressman Jerry McNerny, D-California, 9th District.

26. Invited to the Address to the Congress on the State of the Union, President Barack Obama, January 12, 2015, 114th Congress, United States House of Representatives, Guest of Honorable Jackie Speier, U.S. Representative for California's 14th Congressional District.

27. Invited Guest, 73rd Golden Globe Awards, The Hollywood Foreign Press Association, January 10, 2016, Beverly Hills, California.

28. Presented the Key to the City of Lodi by Mark Chandler, Mayor, City of Lodi, California, January 9, 2016.

29. Invited Guest, 7th Annual Governors Award, Academy of Motion Pictures Arts and Sciences, November 14, 2015, Hollywood, California.

30. Medscape Best Physicians of the Year: 2015.

31. WebMD Health Heroes Award- Scientist, 2015. November 5, 2015.

32. Founding member and director, Bennet Omalu Foundation, Inc., September 2014.

33. Member, Greater Talent Network Speakers' Bureau, New York, New York, 2015

34. Recognized as one of the "120 Great Nigerians You Never Knew". First Bank of Nigeria [since 1894], Ed Emeka Keazor, MME Media, Johannesburg, South Africa, 2014.

35. Certificate of Special Congressional Recognition, San Joaquin County Bar Association, Law Day Luncheon. April 30, 2015. Jerry Mcnerney, Member of the United States Congress.

36. Named among 20 Top Forensic Pathology Professors Online. Forensics Colleges. November 2013. [http://www.forensicscolleges.com/blog/profs/20-top-forensic-pathology-professors; http://www.ucdmc.ucdavis.edu/publish/news/newsroom/8426]

37. 2013 Alumni Achievement Award, University of Nigeria Alumni and Friends Association, U.S.A. Saturday, October 19, 2013, Los Angeles, California.

38. Founding Member, CTEM, Inc. Wheeling, West Virginia, 2013.

39. Nominated for the Potamkin Prize for Research in Pick's, Alzheimer's, and Related Diseases, American Academy of Neurology, 2012.

40. Years of Excellence In Pioneering Neuropathology Concussion Research For Athlete Populations. June 22, 2012, Sports Concussion Institute, Sixth Annual National Summit On Sports Concussion And Other Athletic Injuries.

41. America's Top Physicians, 2007, 2008, 2009, 2010, 2011. Consumer's Research Council of America, Washington, DC.

42. Member, Board of Directors, Brain Injury Research Institute, West Virginia University, Morgantown, West Virginia, August 2010 to present.

43. Discovered and named Chronic Traumatic Encephalopathy [CTE] in American football players and American professional wrestlers, 2002 and 2007.

44. Co-Founder, Brain Injury Research Institute, West Virginia University, Morgantown, West Virginia, November 2009.

45. First Chief Medical Examiner of San Joaquin County, California.

46. Honored Visiting Professor, Department of Neurosurgery, West Virginia University, October 1, 2008.

47. Founder and President, Bennet Omalu Pathology, Inc. October, 2011.

48. Identified the West Nile Virus within the neurons of an infected deceased man using fluorescent-labeled con-focal immuno-microscopy, 2004.

49. The 2002 'Manifesting the Kingdom' Award, Most Reverend Donald W. Wuerl, Bishop, Catholic Diocese of Pittsburgh January 5, 2003.

50. National merit list, Masters in Public Health, Graduate School of Public Health, University of Pittsburgh, April 2004.

51. Honorary Fellowship Award, American Registry of Pathology at the Department of Environmental and Toxicologic Pathology, Armed Forces Institute of Pathology (AFIP). October, 1998.

52. College of American Pathologists (CAP) Foundation Informatics Award: Automated Information Management in the Clinical Laboratory. (Ann Arbor, Michigan) May 1998.

53. World Health Organization Research scholar Award, Cancer Epidemiology, School of Public Health, University of Washington, Seattle, Washington. October 1994 - June 1995.

54. Chief Resident, Department of Pathology, Harlem Hospital Center July 1998 - June 1999.

55. Harlem Hospital House Staff President, March 1998 - April 1999.

56. Laboratory Inspector, College of American Pathologist (CAP), Stanford University, November 2002.

57. New York state delegate, College of American Pathologists Residents Forum, July 1997 – June 1999.

58. Resident Member, Harlem Hospital Medical Board, April 1998 - March 1999.

59. Resident Member, Harlem Hospital Community Board, April 1998 - March 1999.

60. National Delegate, Committee of Interns and Residents (CIR), March 1996 - April 1999.

61. Harlem Hospital Residency Program Liaison, American Society of Clinical Pathologists, July 1997 - June 1999.

62. Honorable Mention, House Staff Research Fair, College of Physicians and Surgeons of Columbia University at Harlem Hospital Center, New York, for: An Immunohistochemical Profile of Tumor Associated Antigens in Malignant Melanoma and Benign Melanocytic Nevi: CD44, p53 protein, Cathepsin B, Melan-A Gene Product. April 1998.

63. Honorable Mention, House Staff Research Fair, College of Physicians and Surgeons of Columbia University at Harlem Hospital Center, New York, for: Forensic implications of the Analytical Evaluation of Human Tissues after Exposure to Cesium Chloride: Atomic Absorption Spectrometry. May 1999.

64. College Scholarship award: National Merit List, Federal Government of Nigeria. September 1979 - July 1984.

65. Producer, "Christ is King !! A Liturgical Selection": an audio compact disc album for Saint Benedict the Moor Roman Catholic Church, Pittsburgh, Pennsylvania. November 2003.

66. President and Founder/ Principal partner, BOGE LLP, a health management and consulting company, Pittsburgh, Pennsylvania, March 2004 – 2007.

67. President and Founder/ Principal partner, Clairton Community Cultural Center, a community re-development company, Pittsburgh, Pennsylvania, 2005 – 2007.

68. President and Founder/ Principal partner, Clairton Community Health Center, a 24-hour community primary care health center, Pittsburgh, Pennsylvania, 2005 – 2007.

69. Trustee, Prostate Health and Research Foundation, a non-profit prostate health education organization, Lagos, Nigeria, March 2004 – 2007.

Selected Invited Lectureships and Talks

1. "An Evening with Dr. Bennet Omalu". Commonwealth Club Present Dr. Bennet Omalu, The Commonwealth Club, San Francisco, California, August 23, 2017.

2. "Don't Break the rules, Change the Game: How Bennet Omalu single-handedly changed American football, professional sports, and how the world perceives traumatic brain injuries". Keynote Address, Life Chiropractic College West, Wave 2017 Conference, San Francisco, California, August 5, 2017.

3. Keynote/Commencement Speaker, Conferring Ceremony, School of Medicine, Royal College of Surgeons in Ireland, Dublin, Ireland, June 7, 2017.

4. "An Evening with Bennet Omalu". North Shore University Hospital Medical Staff Society, 2017 Dinner and Awards Ceremony. Garden City, New York, May 4, 2017.

5. "An Evening with Bennet Omalu". University of North Carolina- Wilmington, Leadership Lecture, Wilmington, North Carolina, March 29, 2017.

6. "Don't Break the Rules, Change the Game: How Bennet Omalu single-handedly changed American Football, Professional Sports, and how the world perceives traumatic brain injuries." Frederick Speaker Series, Weinberg Center for the Arts, Inc. Frederick, Maryland, March 23, 2017.

7. "The Science and Humanity of Chronic Traumatic Encephalopathy". Professional Development Working Group Seminar, Department of Defense, Congressionally Directed Medical Research Programs, Ft. Detrick, Maryland, March 22, 2017.

8. "Conformational Intelligence and the Humanity of Science", Dept of Pathology and Laboratory Medicine Grand Rounds, Emory University, School of Medicine, Department of Pathology and Laboratory Medicine, Atlanta, Georgia, March 13, 2017.

9. "A Morning with Dr. Bennet Omalu", CTE, FTD: Connecting the Dots- Focus on Tau, Frontotemporal Labor Degeneration Association, The University of Texas Health Science Center, San Antonio, Texas, March 11, 2017.

10. "A Morning with Dr. Bennet Omalu", Key Note Speaker, 2017 Breakfast with Friends, Catholic Charities Community Service, Rochester, New York, March 3, 2017.

11. "An Evening with Dr. Bennet Omalu". 2017 Sanderson Lecture, Thomas J. Long School of Pharmacy and Health Sciences, University of the Pacific, Stockton, California, March 1, 2017.

12. "Concussion + The Mustard Seed Effect- How Small Steps Can Spark Big Change". Chambers Lecture Series, Boston College, Chestnut Hill, Massachusetts, February 23, 2017.

13. "The Science and Consequences of Concussions: Shedding Light on CTE Disease", UC Davis, Capitol Speaker Series, UC Center Sacramento, 1130 K Street, LL22, Sacramento, CA 95814, February 22, 2017.

14. "A Morning with Dr. Bennet Omalu, Unlocking Your Full Potential: how to have a positive impact on communities, families and the world while navigating the complexities of wealth." The Threshold Group, Sausalito, California, February 22, 2017.

15. "Chronic Traumatic Encephalopathy, My Life and My Work". Court of Appeal, 3rd Appellate District, 914 Capitol Mall, Sacramento, CA 95814, January 5, 2017.

16. "An Evening with Dr. Bennet Omalu". Banner Bon Sante Ball, Banner Health Foundation, Scottsdale, Arizona, December 10, 2016.

17. "An Evening with Bennet Omalu". Pacific Northwest Chapter, World President's Organization and Young President's Organization. Concussions in Sports meeting, Swedish Neuroscience Institute, Seattle Washington, November 9, 2016.

18. "Don't Break the Rules, Change the Game", Missouri Hospital Association, 94th Annual Convention and Tradeshow, Osage Beach, Missouri, November 3, 2016.

19. "An Afternoon with Bennet Omalu". Better Business Bureau, Inc. Annual Integrity Awards Luncheon, La Vista, Nebraska, November 2, 2016.

20. "The Science and Humanity of Chronic Traumatic Encephalopathy". Navy SEAL Foundation, Inc. Navy SEAL Foundation Mental Health and Veteran Care Convening, San Diego, California, November 1, 2016.

21. "An Afternoon with Bennet Omalu". California Primary Care Association, 2016 Annual Conference, Long Beach, California, October 27, 2016.

22. "An Evening with Bennet Omalu". University Distinguished Speaker Event, Healthy Nevada Speaker Series, University of Nevada, Reno, Nevada, October 25, 2016.

23. "A Morning with Bennet Omalu". American Academy of Physical Medicine and Rehabilitation, 2016 Annual Assembly, New Orleans, Louisiana, October 21, 2016.

24. "An Afternoon with Bennet Omalu". American Health Information Management. 2016 AHIMA Annual Convention, Baltimore, Maryland, October 19, 2016.

25. "An Evening with Dr. Bennet Omalu". Key Note Speaker, El Paso Hispanic Chamber of Commerce, Dreams and Visions to Reality Equal, Annual Fiesta Celebration, El Paso, Texas, October 15, 2016.

26. "An Evening with Bennet Omalu", Patricia H. Snyder Concert and Lecture Series, University of Evansville, Evansville, Indiana, Annual Endowed Lecture and Concert Series on Innovation, research, and healthcare, October 13, 2016.

27. "A morning with Bennet Omalu". Annual Meeting, Indiana Hospital Association, Indianapolis, Indiana, October, 6, 2016.

28. "An Evening with Bennet Omalu". University Lecture Series, Miami University of Ohio, Oxford, Ohio, October 3, 2016.

29. "An Evening with Bennet Omalu". College Endowed Lecture Series, the Anna B. Mow Symposium on Comparative Religious Ethics, Bridgewater College, Bridgewater, Virginia, September 28, 2016.

30. "Don't break the rules, change the game: How Bennet Omalu single-handedly changed American Football, Professional sports, and how the world perceives traumatic brain injuries." Spotlight Program Board's Distinguished Speaker Series, Georgia State University, Atlanta, Georgia, September 27, 2016.

31. "Don't Break the Rules, Change the Game". Key note speaker, The Brain Injury Association of Michigan, 36th Annual Fall Conference, Lansing, Michigan, September 22, 2016.

32. "An Evening with Bennet Omalu", "Lost and Found" – Thrival Innovation Day 1, Thrival Festival, Thrill Mill, Inc, Pittsburgh, Pennsylvania, September 20, 2016.

33. "The Humanity of Science and Conformational Intelligence: The Bennet Omalu Story", Westminster College Hancock Symposium, The Green Lecture, Westminster College, Fulton, Missouri, September 15, 2016.

34. "An Evening with Bennet Omalu". University of Missouri, Columbia, Annual Delta Gamma Lecture Series on Values & Ethics, Jesse Auditorium, September 14, 2016.

35. "An Afternoon with Bennet Omalu". KPMG's International Partners Meeting, Prague, Czech Republic, September 12, 2016.

36. "An Evening with Bennet Omalu: Don't Break the Rules, Change the Game: How Bennet Omalu single-handedly changed American football, Professional sports, and how the world perceives traumatic brain injuries. University of Tennessee, Alumni Memorial Building, Cox Auditorium, Knoxville, Tennessee, August 31, 2016.

37. "An Afternoon with Bennet Omalu" Leadership Tyler. Leadership Live 2016, Tyler, Texas. August 30, 2016.

38. "A Forensic Pathologist, Chronic Traumatic Encephalopathy [CTE] and Conformational Intelligence [CI]". Keynote Speaker, American College of Legal Medicine, 22nd Annual World Congress of Medical Law, Los Angeles, California, August 10, 2016.

39. "Chronic Traumatic Encephalopathy: A Journey from Pathology Discovery to Advocacy and Beyond." Association of Pathology Chairs, 2016 Annual Meeting, San Diego, California, July 15, 2016.

40. "Don't Break the Rules, Change the Game". Keynote Address, Society of Corporate Secretaries and Governance Professionals, Annual National Conference, Colorado Springs, Colorado, June 25, 2016.

41. "Working as a Team to Seek the Truth: Bennet Omalu's Journey on Discovering CTE and Making the Movie Concussion". Key note speaker, Association of Nigerian Physicians in the Americas [ANPA], 2016 Convention and Scientific Assembly, Las Vegas, Nevada, June 23, 2016.

42. "Interview with Dr. Omalu, moderated by Buzz Bissinger". Aspen Ideas Festival Spotlight Health, The Aspen Institute, Aspen, Colorado, June 24, 2016.

43. "Don't Break the Rules, Change the Game: How Bennet Omalu single-handedly changed American football, Professional sports, and how the world perceives traumatic brain injuries." Vizient New England CEO Executive Board Meeting, York, Maine. June 22, 2016.

44. "Don't Break the Rules, Change the Game: How Bennet Omalu single-handedly changed American football, Professional sports, and how the world perceives traumatic brain injuries" Vizient Upper Midwest Executive Board Meeting, Chicago, Illinois, June 14, 2015.

45. "Interview with Will Smith and Bennet Omalu, moderated by Jim Greenwood, CEO, BIO [Biotechnology Innovation Organization]", 2015 BIO International Convention, San Francisco, California, June 7, 2015.

46. "Don't Break the Rules, Change the Game: How Bennet Omalu single-handedly changed American football, Professional Sports, and how the world perceives traumatic brain injuries". Vizient New England CEO Executive Board Meeting, Williamsburgh, Virginia, June 2, 2016.

47. 2016 Project Play Summit, The Aspen Institute, Newseum, Washington, DC, May 17, 2016.

48. A Moring with Dr. Bennet Omalu. Western Health Care Leadership Academy, California Medical Association, San Francisco, California, May 15, 2016.

49. An Evening with Dr. Bennet Omalu. Drexel Neurosciences Institute Inaugural Neurosciences Conference. Drexel Neuroscience Institute, Drexel University College of Medicine, Atlantic City, New Jersey, May 11, 2016.

50. A Morning with Bennet Omalu. US Trust President's Award Program, Bank of America/ U.S. Trust, Colorado Springs, Colorado, May 10, 2016.

51. An Afternoon with Bennet Omalu. Annual SAS Health Care and Life Sciences Executive Conference, SAS Institute, Inc., Cary, North Carolina, May 4, 2016.

52. An Afternoon with Bennet Omalu. 2016 Diversity & Inclusion Symposium, Carolinas Healthcare System, Charlotte, North Carolina, April 28, 2016.

53. An Evening with Bennet Omalu. Healthcare Business Summit, MedAssets, Las Vegas, Nevada, April 26, 2016.

54. An Evening with Bennet Omalu. The Institute For Rehabilitation and Research [TIRR], Houston, Texas, April 21, 2016.

55. The 2016 Significant Speaker Event, Gallogly Events Center, University of Colorado, Colorado Springs. An Evening with Dr. Bennet Omalu: Don't Break the Rules, Change the Game: How Bennet Omalu single-handedly changed American football, professional sports, how the world perceived traumatic brain injuries, and making small steps to spark a major change. April 19, 2016.

56. Speaker, W.L. Mellon Series, Tepper School of Business, Carnegie Mellon University, April 14, 2016. The W.L. Mellon Speaker Series enables students to interact with global leaders, CEOs and management experts in student forums that encourage insightful and lively dialogue.

57. An Evening with Dr. Bennet Omalu, University of Pécs Medical School, Pécs, Hungary, April 1, 2016.

58. "A Morning with Dr. Bennet Omalu". The Head Injury Association: Head Injury Awareness Forum...Protecting School-aged Athletes from Concussion. Hauppauge, New York, March 30, 2016.

59. "Concussion: The Story Behind the Movie". 68th Annual Meeting, San Francisco Neurological Society, Sonoma, California, March 12, 2016.

60. "Don't Break the Rules, Change the Game". 11th Annual Brain Injury and Rehabilitation Conference, Liberty Station Conference Center, The Rehabilitation Center at Scripps Memorial Hospital Encinitas, San Diego, California. March 11, 2016.

61. "An Evening with Bennet Omalu". Oklahoma State University, Speakers' Board, Wes Watkins Center, Stillwater, Oklahoma, March 9, 2016.

62. "An Afternoon with Bennet Omalu". Vivo Capital Annual Limited Partner Meeting. Palo Alto, California, March 2, 2016.

63. "An Afternoon with Bennet Omalu- Discussing the Discovery of CTE". Wounded Warrior Battalion (West), Camp Pendleton, California, March 1, 2016.

64. "An Afternoon with Bennet Omalu". California Schools Employee Association and California Schools VEBA- Benefit University. Anaheim, California, February 29, 2016.

65. "An Evening with Bennet Omalu". Inspiring Minds Speaker Series, Beth El Synagogue, St. Louis Park, Minnesota, February 25, 2016.

66. "An Afternoon with Bennet Omalu". California Schools VEBA/ United HealthCare, Sacramento, California, February 23, 2016.

67. "Concussion: An Evening with Bennet Omalu". Ohio State University, Columbus, Ohio, February 18, 2016.

68. "An Evening with Bennet Omalu". Lifelong Learning Society, Florida Atlantic University, Jupiter, Florida, February 16, 2016.

69. "A Morning with Bennet Omalu". 2016 MedAssets Healthcare Executive Forum. The Westin Kierland Resort & Spa, Scottsdale, Arizona, February 6, 2016.

70. "50 Minute Interview with Stone Phillips". City Arts & Lectures, Nourse Theatre, San Francisco, California, February 4, 2016.

71. "An Evening with Bennet Omalu". Frontier Forum Lecture Series, Straz Center for the Performing Arts, University of South Florida, Tampa, Florida, December 3, 2015.

72. Keynote speaker: "Courageous Truth-Seeker: One Pathologist's Quest for a Diagnostic Breakthrough". The College of American Pathologists Annual Conference [CAP] 2015, Nashville, Tennessee, October 4, 2015.

73. Panelist, Concussion Litigation: Past, Present and Future. California Judges Association, 2015 Mid-Year Conference. May 1-3, 2015, Indian Wells, California.

74. Keynote speaker, Law Day Luncheon 2015. The San Joaquin County Bar Association and Foundation. Thursday April 30, 2015.

75. Chronic Traumatic Encephalopathy [CTE] and Emerging In-Vivo Diagnosis. Santa Clara Valley Brain Injury Conference. Conversations on Coma to Community. February 5-7, 2015, Santa Clara Marriott, Santa Clara, California.

76. The Historical Foundation of Chronic Traumatic Encephalopathy [CTE]: The Role of the Medical Examiner. West Coast Training Conference "Games People Play". Wednesday, April 23, 2014. County of Los Angeles Department of Medical Examiner-Coroner. Beverly Garland, North Hollywood, Los Angeles, California.

77. Emerging In-Vivo Diagnosis of Chronic Traumatic Encephalopathy. Grand Rounds Lecture, Monday, December 2, 2013. Department of Medical Pathology and Laboratory Medicine, University of California, Davis.

78. Chronic Traumatic Encephalopathy: Current Understanding of Clinicopathologic Features; A Forensic Perspective. American Academy of Neurology, 65th Annual Meeting. San Diego, March 16-23, 2013. San Diego Convention Center. March 21, 2013: Cumulative Sports Concussion and Risk of Dementia Course.

79. CTE: A Historical Perspective- Pathological Overview and Taupathy. Mild Head Injury, Concussion, and Return to Activities: Update 2013. Symposium, Friday, January 25, 2013.

The University of Chicago, Section of Neurosurgery, Department of Surgery. The University of Chicago Gleacher Center, 450 North Cityfront Plaza Drive. Chicago, Illinois.

80. History, Definition and Clinicopathologic Features of Chronic Traumatic Encephalopathy [CTE]. Sports Concussion Institute, The National Summit On Sports Concussion And Other Athletic Injuries. June 22, 2012. Los Angeles, California.

81. "Pathophysiology of Traumatic Brain Injury". Manteca Unified School District, School Nurses. Manteca, California. March 19, 2012.

82. "Sociology of Health & Illness". Department of Sociology, University of Pacific, Stockton Campus, Stockton, California. March 15, 2012.

83. "Chronic Traumatic Encephalopathy and PTSD". Grand Rounds, Department of Neurosurgery, University of California, Davis, Sacramento, California, March 13, 2012.

84. "Motivational Lecture and Forensics: Becoming What You Want to Become" San Joaquin County Youth Leadership Academy, District Attorney's Office, June 27, 2012.

85. "Youth Leadership for Change", 2012 Law Day Educational Program, San Joaquin County Bar Association. April 26, 2012.

86. "Chronic Traumatic Encephalopathy and PTSD" Full-Day Dementia Program, San Francisco Neurological Society. Sir Francis Drake Hotel, San Francisco, California, Friday, October 14, 2011.

87. "Taupathy and Chronic Traumatic Encephalopathy" Grand Rounds, Department of Pathology, University of California-Davis, Sacramento, California. April 18, 2011.

88. "Long Term Effects of Repeated Impacts to the Head in American Athletes". Brain Rehabilitation and Injury Network. Thinktank 2011, Long Beach, California. March 27, 2011.

89. "Chronic Traumatic Encephalopathy in American Athletes". Visiting Professor, Grand Rounds, University of California, San Francisco, Department of Neurology, Memory and Aging Center, March 11, 2011.

90. Motivational Lecture to One Hope School, County Operated Schools and Programs, San Joaquin County Office of Education. October 24 and 25, 2011

91. "Motivational Lecture and Forensics: the value and importance of education" San Joaquin County Youth Leadership Academy, District Attorney's Office, June 29, 2011.

92. Employee Personal Motivation Lecture. Employee Mentoring Program, Equal Employment Opportunity Office, San Joaquin County, Administration Building, 44 North San Joaquin Street, June 16, 2011.

93. Keynote Speaker, Thirteenth Annual San Joaquin County Diversity Luncheon. San Joaquin County, California. September 30, 2010.

94. "Becoming a Forensic Pathologist: My Experience and Perspective". Guest Lecturer, First and Second Year Medical Students, School of Medicine, University of California, Davis, October 22, 2010.

95. "Chronic Traumatic Encephalopathy in Sports". 2010 Advanced Team Physician Course, American College of Sports Medicine, American Medical Society for Sports Medicine and American Orthopaedic Society for Sports Medicine. Washington, DC, December 10, 2010.

96. "Emerging Technology in the Evaluation and Treatment of Concussion". 2010 Advanced Team Physician Course, American College of Sports Medicine, American Medical Society for Sports Medicine and American Orthopaedic Society for Sports Medicine. Washington, DC, December 10, 2010.

97. "Epidural Hemorrhages" Visiting Professor Lecture, Neurosurgery Residents, Department of Neurosurgery, West Virginia University, August 17, 2010

98. "Pharm Parties". 10th Annual San Joaquin County Child Abuse Prevention Symposium, Stockton, California, April 14, 2010.

99. "The Forensic Pathology of Chronic Traumatic Encephalopathy". 2010 Independent Retired Players Summit and Conference, Las Vegas, Nevada, April 17, 2010.

100. "Chronic Traumatic Encephalopathy". The Amen Clinic, Newport Beach, California, March 20, 2010.

101. "The forensic pathology of Chronic Traumatic Encephalopathy in American Athletes: the journey thus far." Advanced Education Seminar, Lakewood Orthopedics & Sports Medicine, Speakers Bureau Member, Dallas, Texas, January 23, 2010.

102. "Emerging Forensic Issues of Chronic Traumatic Encephalopathy in American Athletes". Presenter, 2009 National Educational Conference, American Association of Legal Nurse Consultants, Phoenix, Arizona, April 24, 2009.

103. "The stressors in the life of a physician and forensic pathologist". Sociology of Health & Illness Course, University of the Pacific, Stockton, California, March 26, 2009.

104. "New Technologies in Neuropathology and Neuropathology of Concussion in Athletes". Presenter, Emerging Technology and Techniques in Neurosurgery, Ceasar's Palace, Las Vegas, November 8, 2008, Departments of Neurosurgery, West Virginia University, Morgantown, WV, and Allegheny General Hospital, Pittsburgh, PA.

105. "The Forensic Pathology of Chronic Traumatic Encephalopathy in Professional American Athletes". Key Note Speaker, American Association of Legal Nurse Consultants, West

Virginia, Upper Ohio Valley Chapter, 2008 meeting, October 17, 2008, Wheeling, West Virginia.

106. "The Pathophysiology of Traumatic Brain Injury". Visiting Professor/Guest Lecturer, October 1, 2008, Department of Neurosurgery, West Virginia University, Morgantown, West Virginia.

107. Key Note Speaker, "Helping People One Test at a Time", National Laboratory Week, Harlem Hospital Center, New York City, April 25, 2008

108. "The Link between the Field and Dementia" Rendezvous II: An International Sports Medicine Conference, March 25, 2008, Caesars Palace, Las Vegas. 17th Annual Meeting of The American Medical Society for Sports Medicine (AMSSM) and The Canadian Academy of Sports Medicine (CASM), March 25 – 29, 2008.

109. "The Neuropathology and Delayed Sequelae of Concussion in NFL Players". The National Concussion Summit: Concussion in Sports: The Under-Recognized Public Epidemic The Sports Concussion Institute. Centinela Freeman Regional Medical Center, Marina Campus, Marina Del Rey, California at The Marriott Hotel, 4100 Admiralty Way, Marin Del Rey, CA 90292, Friday, April 20th, 2007.

110. "Football Induced Chronic Traumatic Encephalopathy" November 2006, meeting of the Pittsburgh chapter of the National Association of Neurological Nurses, Waterfront, Homestead, Pittsburgh.

111. "The forensic perspectives of traumatic brain injury". 2005 Annual Nursing Conference: traumatic brain injury, from ER management to ICU, rehab, organ donation and Trisha Meili a.k.a. Central Park Jogger. Allegheny General Hospital Pittsburgh, Pennsylvania. November 18, 2005

112. 'Mortality following bariatric surgery'. Bariatric Surgery Research Mini-symposium, Minimally Invasive Surgery Center, Department of Surgery, University of Pittsburgh, Pennsylvania, January 17, 2004.

113. "My professional life as a forensic pathologist and neuropathologist". A career development presentation to selected high school students of the Pittsburgh Public School System. April 14, 2004.

114. "My professional life as a forensic pathologist and neuropathologist". A career development presentation to students of the Saint Benedict the Moor Catholic School, 2900 Bedford Avenue, Pittsburgh, Pennsylvania 15219. March 5, 2004.

115. 'The medico-legal autopsy'. University of Pittsburgh Chapter of the American Inns of Court, Pittsburgh, Pennsylvania. April, 2002.

116. 'My professional experience as a Forensic Pathologist'. Graduating Lecture, 2002 certificate program class, The Cyril H. Wecht Institute of Forensic Sciences, School of Law, Duquesne University, Pittsburgh, Pennsylvania. November, 2002.

117. "The mechanisms of trauma in motor vehicular accidents". Surgical grand-rounds, Department of Surgery, The Mercy Hospital System, Pittsburgh, Pennsylvania. May, 2000.

Post-Graduate Medical Teaching Experience-1

1. Supervised medical students during the Emergency Medicine rotation, University of Jos, Jos, Nigeria, January, 1991-September, 1994.

2. Taught a patho-physiology course for the physician assistant program at the Harlem Hospital Center, New York, NY. July, 1996 – June, 1999.

3. Presented weekly clinico-pathologic conferences for the departments of pathology, surgery, internal medicine, obstetrics and gynecology, Harlem Hospital Center, New York, NY. July, 1995 – June, 1999.

4. Taught medical students and residents, forensic pathology and neuropathology, University of Pittsburgh, July, 1999 – June, 2002.

5. Taught a workshop in the patho-physiology course, Masters in Public Health program, Graduate School of Public Health, University of Pittsburgh, September, 2002 – 2007.

6. Supervised residents during rotation in forensic pathology, University of Pittsburgh, July, 2002 – 2007.

7. Taught monthly forensic neuropathology workshops to residents and fellows in pathology, neurology and neurosurgery, University of Pittsburgh, 2004 – 2007.

8. Taught monthly neuropathology workshops to residents in pathology, Conemaugh Memorial Hospital, Johnstown, Pennsylvania, January 2005 – 2007.

9. Presented monthly trauma rounds to surgery residents, Mercy Hospital of Pittsburgh, January 2006 – 2007.

10. Presented quarterly one-day introductory autopsy conferences for the emergency medicine technology program of Allegheny County Community College, April, 2006.

11. Forensic pathology and neuropathology grand round lectures, internal medicine, family practice and surgery residents, San Joaquin General Hospital, French Camp, California, 2009 – 2012.

12. Forensic neuropathology brain cutting workshops for pathology residents and fellows, University of California at Davis, Department of Pathology, 2009 – 2013.

13. Forensic neuropathology brain cutting workshops for neurology residents and fellows, University of Nevada, Las Vegas at the Clark County Coroner's Office, 2011 – 2012.

14. Mentoring and teaching residents and medical Students and covering the autopsy service, and forensic neuropathology service, Department of Medical Pathology and Laboratory Medicine, University of California at Davis, March 2012 – July 2013.

Post-Graduate Medical Teaching Experience-2

15. Microscopy sessions and slides review, residents and medical students, Department of Medical Pathology and Laboratory Medicine, University of California at Davis, September 2013 to present.

16. Grand rounds lectures, didactic lectures in laboratory management, forensic pathology and neuropathology for medical students, residents and fellows, Department of Medical Pathology and Laboratory Medicine, UC-Davis Medical School, 2008 – Present.

17. Grand Rounds, Department of Medical Pathology and Laboratory Medicine, UC-Davis, February 1, 2016: What a Pathologist can Learn from Hollywood: Dr. Omalu's Experience.

Research Grant

1. $24, 750.00 grant from The Pittsburgh Foundation for a research project on Loss of heterozygosity as predictors of grade and outcome in meningiomas in collaboration with John Lee, M.D. University of Pittsburgh.

2. $200,000.00 grant from The Hazel Ruby Mcquain Charitable Trust, West Virginia to the Brain Injury Research Institute, for research into Chronic Traumatic Encephalopathy, 2010-2011.

Death Review Boards and Committee Memberships

1. Child Death Review Board, San Joaquin County, California, 2007 – present

2. Infant Death Review Board, San Joaquin County, California, 2007 – present

3. Elder Death Review Board, San Joaquin County, California, 2007 – present

4. Homicide Review Committee, San Joaquin County, California, 2010 – 2015

5. San Joaquin County Trauma Audit Committee, San Joaquin County Emergency Medical Services Agency, California, 2014 - Present

Broadway Theatre and Hollywood Motion Picture Coverage

1. Concussion, drama film, Sony Pictures, starring Will Smith as Bennet Omalu. December 25, 2015. Written and directed by Peter Landsman, produced by Scott Free Productions and the Shuman Company.

2. League of Denial: The NFL's Concussion Crisis. Documentary Movie. Frontline, Public Broadcasting Service [PBS]. October 8, 2013.

3. EST/Sloan presents Headstrong, by Patrick Link; directed by William Carden. The Ensemble Studio Theatre, New York City, New York. April/May 2012.

Selected Book Coverage

1. Concussion by Jeanne Marie Laskas. Random House, New York, USA. 2015 [New York Times Best Seller]

2. League of Denial. The NFL, Concussions, and the Battle for Truth by Mark Fainaru-Wada and Steve Fainaru. Crown-Archetype, Random House, New York, USA. 2013.

3. The Death Penalty on Trial, Crisis in American Justice, by Bill Kurtis, PublicAffairs™, 2004.

Selected Media Coverage

1. Book by 'Concussion' doctor is recommended reading for parents of football kids. By Ed Sherman Chicago Tribune, October 30, 2017. http://www.chicagotribune.com/lifestyles/books/sc-books-sports-book-roundup-1101-story.html

2. "From Hopeless to Healer: Persecuted in Nigeria, Stonewalled by the NFL- Early struggles prepared Bennet Omalu for character assassination in the U.S. By https://www.medpagetoday.com/SportsMedicine/EliteSports/68033

3. 'Concussion' doctor says kids shouldn't play these sports until they're 18. By A. Pawlowski. Health and Wellness, September 5, 2017. https://www.today.com/health/concussion-doctor-warns-against-contact-sports-kids-t115938

4. "Truth Doesn't Have a Side". Publishers Weekly, Book Review, August 2017. https://www.publishersweekly.com/978-0-310-35196-2?utm_source=Publishers+Weekly&utm_campaign=92aa48e849-EMAIL_CAMPAIGN_2017_08_23&utm_medium=email&utm_term=0_0bb2959cbb-92aa48e849-305322873

2. "Who is Bennet Omalu and why did his concussion discovery send shock waves through sport?", by Jeremy Wilson, The Telegraph, August 9, 2017.

http://www.telegraph.co.uk/football/2017/08/09/bennet-omalu-did-concussion-discovery-send-shock-waves-sport/

3. New book shows a more intimate 'Side' of Dr. Bennet Omalu, by Terri Schlichenmeyer, The Philadelphia Tribune, August 22, 2017. http://www.phillytrib.com/lifestyle/new-book-shows-a-more-intimate-side-of-dr-bennet/article_e969b814-adac-5897-ac64-1eb5cc56166a.html

4. 'Concussion' doctor: No such thing as 'making football safer', by Brett Cyrgalis, New York Post, August 7, 2017. http://nypost.com/2017/08/07/concussion-doctor-no-such-thing-as-making-football-safer/

5. Dr. Bennet Omalu: CTE obsession obscuring truth about brain health of football players, by Kevin Seifert, ESPN, August 4, 2017. http://www.espn.com/nfl/story/_/id/20245394/dr-bennet-omalu-says-obsession-cte-obscuring-larger-truth-brain-health-football-players

6. Under 18s should not play rugby, says 'concussion' doctor. Leading neuropathologist calls for contact sport with risk of head blows to be limited to adults, by Gavin Cummiskey, The Irish Times, Dublin, Ireland, June 3, 2017. http://www.irishtimes.com/sport/rugby/under-18s-should-not-play-rugby-says-concussion-doctor-1.3105970

7. How head injuries will end sport as we know it. Dr Bennet Omalu says children should not be playing rugby or heading the ball in soccer, by Gavin Cummiskey, The Irish Times, Dublin, Ireland, June 3, 2017. http://www.irishtimes.com/sport/rugby/how-head-injuries-will-end-sport-as-we-know-it-1.3105943

8. http://www.post-gazette.com/local/city/2017/05/30/Bennet-Omalu-concussion-Kenneth-Reeves-homicide-trial-Allegheny-County-Pittsburgh/stories/201705300124.

9. Omalu Says NHL Docs Using 'Alternative Facts' To Refute CTE, by Zachary Zagger, Law360, New York, February 8, 2017.

10. Bennet Omalu gets involved in NHL concussion lawsuit, by Rick Westhead, TSN Canada, February 9, 2017. http://www.tsn.ca/bennet-omalu-gets-involved-in-nhl-concussion-lawsuit-1.667427

11. Thank you Dr. Omalu, by Roger Braden, Attorney at Law Magazine, Kentucky Edition, Volume 4, No. 1, 2016.

12. Physician who discovered CTE in NFL players gets AMA's highest honor, by Timothy Smith, AMA Wire, November 12, 2016. https://wire.ama-assn.org/ama-news/physician-who-discovered-cte-nfl-players-gets-ama-s-highest-honor

13. First case of CTE diagnosed in MMA fighter, by Bob Hohler, The Boston Globe, October 21, 2016. https://www.bostonglobe.com/sports/2016/10/20/first-case-cte-diagnosed-mma-fighter/SfUZnoh3Z1dT9xruTm95RO/story.html

14. Bennet Omalu - From Trauma to Triumph, Dr. Benjamin Ola. Akande, President, Westminster College, Missouri. Ladue News, St. Louis, Missouri.

15. Bennet Omalu, MD. The Physician Leader Whose Research Inspired The Movie Concussion. PIJ- Physician Leadership Journal, Bill Steiger, American Association For Physician Leadership. Volume 3, Issue 2, March/April, 2016.

16. Truth and Consequences. Hillary Louise Johnson. Sactown Magazine. April-May 2016.

17. Concussion, Bang to Rights: Science is taking big stems toward understanding the impact of concussion. The Economist, March 5, 2016. http://www.economist.com/news/science-and-technology/21693906-science-taking-big-steps-toward-understanding-impact-concussion-bang

18. Bennet Omalu receives congressional honors, by The Record. The Stockton Record Newspaper, February 5, 2016. http://m.recordnet.com/article/20160205/NEWS/160209826.

19. CTE in the NFL: The tragedy of Fred McNeill. By Nadia Kounang, CNN. February 5, 2016. http://edition.cnn.com/2016/02/04/health/fred-mcneill-cte-football-player/index.html.

20. Brain Trust. Will Smith shines a light on the dark side of the sport he loves. By Ben Reiter. Sports Illustrated Magazine. December 28, 2015.

21. The Inside Story of Concussion's Dr. Bennet Omalu and His 'Good Friend' Will Smith. By Johnny Dodd. People Magazine. December 24, 2015.

22. The Doctor the NFL Tried to Silence. League physicians sought to discredit Bennet Omalu's autopsy study showing widespread brain damage in former Steelers star Mike Webster. By Jeanne Marie Laskas. World Street Journal. November 24, 2015.

23. Greater Good. Health Heroes- Scientist. WebMD. November-December 2015 issue.

24. Concussion Pathologist Play by Will Smith Tells His Story. Pam Harrison. Medscape Medical News. Medscpae.com. October 4, 2015.

25. Gridiron Dementia. Nicholas Ducassi. Carnegie Mellon Today. May 2015 issue.

26. Will Smith to play Bennet Omalu, who changed the way we think about football. Alyssa Rosenberg. The Washington Post, June 5, 2014 [http://www.washingtonpost.com/news/act-four/wp/2014/06/05/will-smith-to-play-bennet-omalu-who-changed-the-way-we-think-about-football/]

27. Will Smith to Star In NFL Concussion Drama (EXCLUSIVE): Sony's untitled thriller based on GQ article 'Game Brain'. Justin Kroll. Variety, June 3, 2014. [http://variety.com/2014/film/news/will-smith-to-star-in-movie-about-nfl-concussions-exclusive-1201210878/]

28. Dorsett, others show signs of CTE. By William Weinbaum and Steve Delsohn | ESPN.com, November 6, 2013. [http://espn.go.com/espn/otl/story/_/id/9931754/former-nfl-stars-tony-

dorsett-leonard-marshall-joe-delameilleure-show-indicators-cte-resulting-football-concussions].

29. "S.J.'s chief medical examiner declines job offer from D.C." by Jennie Rodriguez-Moore. The Stockton Record. October 27, 2013.

30. Public Broadcasting Corporation, Frontline, "The League of Denial", October 8, 2013.

31. ESPN.com, January 22, 2013. "CTE found in living ex-NFL players" by Steve Fainaru *and* Mark Fainaru-Wada

32. The New York Times, April 26, 2012. "Veterans and Brain Disease" by Nicholas D. Kristof.

33. Gehirn&Geist, February 9, 2012, Bidredaktion, SCHÄDEL-HIRN-TRAUMATA, Krieg im Kopf [German]; by Sharon Weinberger

34. "Gun linked to Gilley in killing" by Jennie Rodriguez-Moore. The Stockton Record. April 17, 2012.

35. Nature 477, 390-393 (September 2011) Bombs' hidden impact: The brain war. Wartime explosions may be creating an epidemic of brain damage — and a major challenge for scientists; by Sharon Weinberger.

36. Faculty Newsletter, UC Davis Health System, February – March 2011: Brain Trauma Expert Bennet Omalu Teaches Forensic Neuropathology; Published by the Faculty Development Office.

37. ESPN The Magazine, January 10, 2011: Coming to a head: When the NFL reversed field on concussions, it spawned a medical gold rush that pits scientist against scientist in a quest for cures, treatments and dead men's brains; by Peter Keating.

38. The Patriot-News, December 26, 2010: 2010: The year of the concussion; by Stefanie Loh.

39. CNN.com, November 24, 2010: Ex-NFL stars after concussion: Lives unraveled; by Stephanie Smith, CNN medical producer.

40. CNN.com, November 22, 2010, Warner: Playing through concussion 'part of the game'; by Stephanie Smith, CNN Medical News.

41. The Patriot-News, August 22, 2010: What Chris Henry taught us: how an autopsy of the former Cincinnatic Bengals' receiver's brain has helped doctors further research about concussions in football, by Stefanie Loh.

42. The New York Times, June 28, 2010: Former Bengal Henry Found to Have Had Brain Damage, by Alan Schwarz.

43. "Gray jury report unveils details of Huckaby case" by Scott Smith. The Stockton Record. June 19, 2010.

44. The Associated Press, June 18, 2010: Forensic Pathologist: Disposal of Sandra Cantu's Body Likely Premeditated.

45. Fox News Network, American News HQ, Shannon Bream, Sunday, February 7, 2010.

46. ESPN Television, Outside the Lines, Concussions in Football, Sunday, February 7, 2010.

47. Stars and Stripes, "Doctors study link between combat and brain disease." January 23, 2010, by Seth Robbins.

48. The Sydney Morning Herald, Australia, "US football players face head injury time bomb." January 10, 2010, by Ed Pilkington.

49. Guardian Newspaper, United Kingdom, "Ticking timebomb in US colleges as American football head injuries linked to dementia: As NFL bows to pressure and changes its rules, a Congressional hearing has opened into fears of long-term brain damage." January 4, 2010, by Ed Pilkington.

50. ESPN.COM, "Doctors: Wrestler had brain damage", December 9, 2009, by Greg Garber.

51. "S.J. medical examiner details gruesome scene", by Scott Smitt. The Stockton Record. November 20, 2009.

52. ABC Television, Nightline: Driven Mad? What long-term brain injuries can football players sustain? October 16, 2009, by Martin Bashir and Roxanna Sherwood.

53. GQ Magazine: Blowing the whistle on the NFL: a shocking look at what the modern game is doing to players' brains. October 2009, by Jeanne Marie Laskas.

54. Science Journal: A late hit for pro football players: emerging research suggests that hard knocks on the field may cause delayed brain damage in retired athletes. August 7, 2009, by Greg Miller.

55. Canadian Broadcasting Corporation- Television Documentary: Head Games. The Fifth Estate. Aired on Wednesday November 19, 2008 on CBC-TV.

56. Canadian Broadcasting Corporation-Television Documentary: A fight to the death. Concussions in Sports. Aired on February 6 and 10, 2008 on CBC-TV and on February 8 on CBC Newsworld.

57. State Journal: Sports Research Group Wants Action, WVU's Bailes, others hope findings lead to more education about concussions. September 13, 2007; by Juliet A. Terry.

58. Science Daily: Wrestler Chris Benoit Brain's Forensic Exam Consistent with Numerous Brain Injuries. September 6, 2007.

59. USA Today: NFL begins debate about concussions at summit. Wednesday, June 20, 2007; by Gary Mihoces.

60. USA Today: Concussion force hard look inward around NFL. Tuesday, June 19, 2007; by Gary Mihoces.

61. New York Times: PRO FOOTBALL; Lineman, Dead at 36, Sheds Light on Brain Injuries. Friday, June 15, 2007; by Alan Schwarz.

62. USA Today: NFL disputes doctor's diagnosis of "footballer's dementia". Monday, June 18, 2007; by Gary Mihoces.

63. Neuroscene Podcast: "Dementia of Football": The next major public health issue in sports. Friday, June 15, 2007. http://www.neuroscene.com.

64. HBO Sports, RealSports with Bryant Gumbel, Concussions in the NFL, May 7, 2007.

65. Head Games, Football's Concussion Crisis, by Christopher Nowinski, The Drummond Publishing Group, 2007.

66. New York Times: Pro football, expert ties ex-player's suicide to brain damage from football. Thursday, January 18, 2007; by Alan Schwarz.

67. Washington Post: "Brain chaser" tackles effects of NFL hits. Wednesday April 25, 2007; by Les Carpenter.

68. Football Concussions Linked to Depression, Cognitive Impairment—Experts Seek Prospective Studies, by Stephanie Cajigal, Neurology Today Volume 7(5), 6 March 2007, pp 1, 22–23. Lippincott, Williams and Wilkins, 2007 AAN Enterprises, Inc.

69. Concussions in Collision Sports, by Alyssa Banotal, Advance, for Speech-Language Pathologists and Audiologists, The Nation's Speech-Language and Audiology Weekly. May 14, 2007 Vol. 17 No. 20, pp 6-8, 42.

70. Gastric bypass surgery patients often find it's not a cure for depression. Wednesday, June 29, 2005 by Alana Samuels.

71. Pittsburgh profiles, interview with Elaine Effort on KQV news radio, AM 1410, Pittsburgh, Pennsylvania, Sunday, April 25th, 2004.

72. Recorded mass, part of parish evangelization effort. Pittsburgh Catholic. Friday, January 24, 2003 by Patricia Bartos.

73. Pittsburgh Post-Gazette: Suicide rose during '90s, peaked in '97. Sunday, November 16, 2003; by Jim McKinnon.

74. New Pittsburgh Courier: Omalu joins coroner's office. Saturday, July 17, 1999; by Treshea N. Wade.

PART 2: BIBLIOGRAPHY

Books and Book Chapters

1. Play Hard Die Young: Football dementia, depression and death. By Bennet Omalu, M.D., NeoForenxis Books, Lodi, California, February 2008.

2. A Historical Foundation of CTE in Football Players: Before the NFL, There was CTE. By Bennet Omalu, M.D. Bennet Omalu, Lodi, California, July 2014.

3. Omalu, B. Chronic Traumatic Encephalopathy in Concussion, Niranjan A and Lunsford LD eds. Progress in Neurological Surgery, Vol. 28. Karger, New York, New York, 2014.

4. Omalu, B. Neuropathology of Chronic Traumatic Encephalopathy in Handbook of Neurological Sports Medicine, Concussion and Other Nervous System Injuries in the Athlete. Petraglia AL, Bailes JE, Day AL eds. Human Kinetics, Champaign, Illinois, 2015.

5. Omalu, B. The Pathologist is the "Salt" of Patient Care. The Healing Art of Pathology. Bui MM, Galagan KA eds. CAP Press, 2016.

6. Truth Doesn't Have a Side: My Alarming Discovery about the Danger of Contact Sports. By Bennet Omalu, with Mark Tabb [contributor]. Zondervan Books, HarperCollins Christian Publishers, August, 2017.

Peer-Reviewed Scientific Journal Publications - 1

1. Boakye K, Omalu B, Thomas L. Fallopian Tube and Pulmonary Sarcoidosis. A Case Report. J Reprod Med. 1997 Aug; 42(8):533-535.

2. Harris A, Levy E, Kanal E, Pollack A, Cayhill AM, Omalu BI, Albright AL. Infectious aneurysm clipping by MRI/ MRA wand guided protocol: a case report and technical note. Pediatric Neurosurgery. 2001 Aug;35(2):90-3.

3. Levy EI, Harris AE, Omalu BI, Hamilton R, Branstetter BF, Pollack IF. Sudden death from fulminant acute cerebellitis. Pediatric Neurosurgery. 2001 Jul;35(1):24-8.

4. Uma P, Lacomis D, Omalu B. Amiodarone induced neuromyopathy: three cases and review of the literature. Journal of Clinical Neuromuscular Disease. 2002 March;3(3):97-105.

5. Omalu BIHT, Wiley CA, Hamilton RL. February 2003: a 53-year-old male with new onset seizures. Brain Pathology. 2003 Jul;13(3):419-20, 423.

6. Harris AE, Lee JYK, Omalu B, Flickinger JC, Kondziolka D, Lunsford LD. The effect of radiosurgery during management of aggressive meningiomas, Surgical Neurology. 2003 October, 60 (4): 298-305

7. Centeno JA, Pestaner JP, Omalu BI, Torres NL, Field F, Wagner G, Mullick FG.TH Blood and Tissue Concentration of Cesium after Exposure to Cesium Chloride: A Report of Two Cases. Biol Trace Elem Res. 2003;94(2):97-104.

8. Omalu BI, Dominick JT, Uhrich TG, Wecht CH. Fatal constriction of an 8-year-old child by her parents' pet python: a call for amendment to existing laws on the ownership of exotic wildlife to protect children from avoidable injury and death, Child Abuse & Neglect, 2003 Sep;27(9):989-91.

9. Omalu BI, Abdulrazek SA, Guoji W, Lipkin WI, Wiley CA.T Fatal Fulminant Pan-Meningo-Polioencephalitis Due to West Nile Virus. Brain Pathology 2003;T13[4]:465-472.

10. Ionescu DN, Sasatomi E, Aldeeb D, Omalu BI, Finkelstein SD, Swalsky PA, Yousem SA.. Pulmonary meningothelial-like nodules: a genotypic comparison with meningiomas. American Journal of Surgical Pathology 2004;28(2):207-14.

11. Omalu B, Abdulrezak SM, Rozin L, Ladham S, Wecht CH. Post-mortem grading of cerebral contusions: a proposed modification of the Adams' contusion index with re-definition of anatomic markers. Forensic Science, Medicine and Pathology. June 2005;1(2):105-112.

12. Omalu BI, Luckasevic T, Abdulrezak SM, Rozin L, Wecht CH, Kuller LH. Post-bariatric surgery deaths, which fall under the jurisdiction of a coroner. Am J Forensic Med Pathol. 2004 Sep; 25(3):237-242.

13. Lee JYK, Finkelstein S, Hamilton RL, Rekha R, King Jr. JTK, Omalu B. Loss of Heterozygosity Analysis of Benign, Atypical, and Anaplastic Meningiomas. Neurosurgery 2004; 55(5):1163-1173.

14. Koehler SA, Weiss H, Songer TJ, Rozin L, Shakir A, Ladham S, Omalu B, Dominick J, Wecht CH. Deaths among criminal suspects, law enforcement officers, civilians and prison inmates. A coroner-based study. The American Journal of Forensic Medicine and Pathology 2003; 24(4):334-338.

15. Omalu B, Diagnosis of traumatic diffuse axonal injury. Am J Forensic Med Pathol. 2004; 25(3):270-271.

16. Koehler SA, Luckasevic TM, Rozin L, Shakir A, Ladham S, Omalu B, Dominick J, Wecht CH. Death by chainsaw: fatal kickback injuries to the neck. Journal of Forensic Sciences 2004;49(2):345-50.

17. Koehler SA, Shakir A, Ladham S, Rozin L, Omalu B, Dominick J, Wecht CH. Cardiac concussion: Definition, Differential Diagnosis, and Cases Presentation and the Legal Ramification of a Misdiagnosis. Am J Forensic Med Pathol. 2004 Sep; 25(3): 205-208.

18. Koehler SA, Ladham S, Rozin L, Shakir A, Omalu B, Dominick J, Wecht CH. The risk of body packing: a case of a fatal cocaine overdose. Forensic Sci Int. 2005 Jun 30;151(1):81-4.

19. Omalu BI, Dekosky ST Minster RL, Kamboh MI,.Hamilton, R, Wecht CH. Chronic Traumatic Encephalopathy in a National Football League Player. Neurosurgery. 2005 Jul;57(1):128-34.

20. Omalu BI, Cho P, Shakir AM, Agumadu UH, Rozin L, Kuller LH, Wecth CH. Suicides following bariatric surgery for the treatment of obesity. Surgery for Obesity and Related Diseases. 2005 Jul-Aug;1(4):447-449.

21. Omalu BI, Macurdy KM, Koehler ST, Nnebe-Agumadu UH, Shakir A, Rozin L, Wecht CH. Forensic pathology and forensic epidemiology of suicides in Allegheny County, Pennsylvania: a ten year retrospective review (1990 – 1999). Forensic Science, Medicine and Pathology. June 2005;1(2):125-138.

22. Omalu BI, Mancuso JA, Cho P, Wecth CH. Diagnosis of Alzheimer's disease in an exhumed decomposed brain after twenty months of burial in a deep grave, The Journal of Forensic Sciences. November 2005;1453-1458.

23. Brown MJ, Willis T, Omalu B, Leiker R. Deaths resulting from hypocalcemia after administration of edetate disodium: 2003-2005. Pediatrics, 2006 August; 118(2): e534-6.

24. Lindner JL, Omalu BI, Buhari A, Shakir A, Rozin L, Wecht CH. Nursing home deaths which fall under the jurisdiction of the coroner: an 11-year retrospective study. Am J Forensic Med Pathol 2007; 28: 292–298.

25. Omalu BI, DeKosky ST, Hamilton RL, Minster RL, Kamboh I, Wecht CH. Chronic Traumatic Encephalopathy in a National Football League Player. Neurosurgery. May 2006;58(5):E1003

26. Omalu BI, DeKosky ST, Hamilton RL, Minster RL, Kamboh I, Shakir A, Wecht CH. Chronic traumatic encephalopathy in a national football league player: part II. Neurosurgery. 2006 Nov;59(5):1086-1092.

27. Omalu BI, Ives DG, Buhari AM, Lindner JL, Schauer PR, Wecht CH, Kuller LH. Death rates and causes of death following bariatric surgery for Pennsylvania residents, 1995 to 2004. Arch Surg 2007;142(10):923-928.

28. Omalu BI, Lindner JL, Janssen JK, Nnebe-Agumadu U, Weedn V. The role of environmental factors in the causation of sudden death in infants: two cases of sudden unexpected death in two unrelated infants who were cared for by the same babysitter. Journal of Forensic Sciences, 2007, November; 52(6).

29. Omalu BI, Shakir AM, Lindner JL, Tayur SR. Forecasting as an operations management tool in a medical examiner's office. Journal of Health Management, Vol. 9, No. 1, 75-84 (2007)

30. Omalu BI, Lindner JL, Parwani AV, Balani J, Shakir A, Ness RB. Is there an association between coronary atherosclerosis and carcinoma of the prostate in men aged 50 years and older? An autopsy and coroner based post-mortem study. Nigerian Journal of Clinical Practice, January-March 2013, 16(1).

31. Omalu BI, Bailes J, Hammers J, Fitzsimmons, RP. Chronic traumatic encephalopathy, suicides and parasuicides in professional American athletes: the role of the forensic pathologists. Am J Forensic Med Pathol Volume 31, Number 1, March 2010.

32. Omalu BI, Hammers J, DiAngelo C, Moore S, Luckasevic T. Autopsy features of sudden death due to isolated eosinophilic coronary arteritis: report of two cases and review of literature. J Forensic Nurs. 2011 Sep;7(3):153-6.

33. Omalu B. Pathophysiological nervous system consequences of conducted electrical devices and sudden, unexpected death. J Forensic Nurs. 2011 Mar;7(1):51-3

34. Tindle HA, Omalu B, Courcoulas A, Marcus M, Hammers J, Kuller LH. Risk of suicide after long-term follow-up from bariatric surgery. Am J Med. Nov;123(11):1036-1042.

35. Omalu B, Bailes J, Hamilton RL, Kamboh MI, Hammers J, Case M, Fitzsimmons R. Emerging Histomorphologic Phenotypes of Chronic Traumatic Encephalopathy [CTE] in American Athletes. Neurosurgery. 2011 Jul;69(1):173-83; discussion 183.

36. Omalu B, Hammers J, Bailes J, Hamilton RL, Kamboh MI, Webster G, Fitzsimmons R. Chronic traumatic encephalopathy in an Iraqi war veteran with posttraumatic stress disorder who committed suicide. Neurosurgical Focus 31 (5): E3, 2011.

37. Omalu B, Hammers J, Luckasevic T. Diagnosis of hemorrhagic stroke in an exhumed brain after three years of burial in a deep grave. Journal of Forensic Sciences. 2012;57(6):1665-8.

38. Small GW, Kepe V, Siddarth P, Ercoli LM, Merrill DA, Donoghue N, Bookheimer SY, Martinez J, Omalu B, Bailes J, Barrio JR. PET scanning of brain tau in retired National Football League players: preliminary findings. American Journal of Geriatric Psychiatry. 2013;21(2):138-44.

39. Turner RC, Lucke-Wold BP, Robson MJ, Omalu BI, Petraglia AL, Bailes JE. Repetitive traumatic brain injury and development of chronic traumatic encephalopathy: a potential role for biomarkers in diagnosis, prognosis and treatment? Frontiers in Neurology. 2012;3:186

40. Bailes J, Petraglia A, Omalu B, Nauman E, Talavage T. The role of subconcussion in repetitive mild traumatic brain injury. J Neurosurg. 2013; 119(5): 1235-45.

41. Omalu B. Chronic traumatic encephalopathy. Prog Neurol Surg. 2014;28:38-49.

42. Lucke-Wold BP, Turner RC, Logsdon AF, Nguyen L, Bailes JE, Lee JM, Robson MJ, Omalu BI, Huber JD, Rosen CL. Endoplasmic reticulum stress implicated in chronic traumatic encephalopathy. J Neurosurg. 2015 Sep 18:1-16. [Epub ahead of print]

43. Barrio JR, Small GW, Wong KP, Huang SC, Liu J, Merrill DA, Giza CC, Fitzsimmons RP, Omalu B, Bailes J, Kepe V. In vivo characterization of chronic traumatic encephalopathy using [F-18]FDDNP PET brain imaging. Proc Natl Acad Sci U S A. 2015 Apr 21;112(16):E2039-47. Epub 2015 Apr 6. Erratum in: Proc Natl Acad Sci U S A. 2015 Jun 2;112(22):E2981.

Abstract Presentations and Publications - 1

1. Omalu B, Torres NL, Field F, Centeno JA, Mullick FG. Forensic implications of the analytical evaluation of human tissues after exposure to cesium chloride. AFIP Fellowship, Dept. of Environmental and Toxicologic Pathology.

2. Omalu B, Navarro C, Thomas L, Olibrice M. Pulmonary steatosis: fatty degeneration of type II pneumocytes Harlem Hospital 6th Annual Research Fair. College of Physicians and Surgeons of Columbia University. April 1998.

3. Omalu B, Navarro C, Coira-Pademonte M. An immunohistochemical profile of tumor associated antigens in malignant melanoma and benign melanocytic nevi: CD44, p53 protein, cathepsin B and melan-A gene product.

4. Harlem Hospital 6th Annual Research Fair. College of Physicians and Surgeons of Columbia University. April 1998.

5. Omalu B, Torres NL, Field F, Centeno JA, Mullick FG. Forensic implications of the analytical evaluation of human tissues after exposure to cesium chloride. AFIP Fellowship, Dept. of Environmental and Toxicologic Pathology.

6. Omalu B, Navarro C, Thomas L, Olibrice M. Pulmonary steatosis: fatty degeneration of type II pneumocytes Harlem Hospital 6th Annual Research Fair. College of Physicians and Surgeons of Columbia University. April 1998.

7. Omalu B, Navarro C, Coira-Pademonte M. An immunohistochemical profile of tumor associated antigens in malignant melanoma and benign melanocytic nevi: CD44, p53 protein, cathepsin B and melan-A gene product. Harlem Hospital 6th Annual Research Fair. College of Physicians and Surgeons of Columbia University. April 1998.

Abstract Presentations and Publications - 2

8. Omalu H, Omalu B. Hepatitis B virus markers and liver function in patients with homozygous sickle cell disease. Library Archives, Department of Pediatrics, College of Medicine, University of Nigeria:March 1992.

9. Omalu B. Knowledge, attitude and practice of contraception among university students in Enugu, Nigeria. Library Archives, Department of Public Health, College of Medicine, University of Nigeria: May 1989.

10. Omalu B, Hamilton R, Rolston R, Jaumotte J, Swalsky P, Finkelstein S. Mirodissection-based mutational profiling of meningiomas: meningioma grading and fractional allelic loss index. Platform presentation at the American Association of Neuropathologists national meeting, Denver, Colorado, June 20-23, 2002.

11. Omalu B, Koehler SA, Ladham S, Shakir A, Rozin L, Dominick J, Wecht CH. Forensic epidemiology of suicides in Allegheny County, Pennsylvania: a ten year retrospective review, 1991-1999. Platform presentation at the National Association of Medical Examiners national meeting, Sherveport, Louisiana, .September 27 - October 3, 2002,

12. Koehler SA, Omalu B, Ladham S, Shakir A, Rozin L, Dominick J, Wecht CH. The methods of suicide and seasonal patterns by Age, Sex, and Race: A 10-year Forensic Epidemiological study of Suicides in Allegheny County, Pa:1990-1999. Platform presentation at the International Assocaition of Forensic Nurses 10th Annual Scientific Assembly, Minneapolis, Minnestoa, October 9-12 2002

13. Omalu B, Lee JYK, Hamilton R, Finkelstein S. Loss of heterozygosity analysis of meningiomas as predictors of grade. Oral poster presentation at the 52P^{ndP} Annual Meeting of the Congress of Neurological Surgeons, Philadelphia, Pennsylvania, September 23-25, 2002.

Abstract Presentations and Publications - 3

14. Ionescu DN, Omalu BI, Finkelstein SD, Swalsky PA, Trusky C, Lomago D, Yousem SA. Pulmonary meningothelial-like nodules: a genotypic comparison with meningiomas. Abstract presentation at the 92P^{ndP} Annual meeting of the United States and Canadian Academy of Pathology, Washington DC, March 22-28, 2003.

15. Omalu B, Abdulrazek S, Guoji W, Lipkin W, Wiley C. Fatal fulminant pan-meningo-polioencephalitis due to west nile virus. Abstract presentation at the 79th Annual Meeting of the American Association of Neuropathologists, Orlando, Florida., June 19-22, 2003.

16. Omalu B, Abdulrazek S, Guoji W, Lipkin W, Wiley C. Fatal fulminant pan-meningo-polioencephalitis due to west nile virus. Abstract presentation at the Annual Meeting of the National Association of Medical Examiners, San Jose, California, September 19 – 24, 2003.

17. Lee JYK, Omalu B, Hamilton R, King JT, Finkelstein S. Loss of Heterozygosity Analysis of Meningiomas: A Population Study. Abstract presentation at the 53P^{rdP} Annual Meeting of the Congress of Neurological Surgeons, Denver Colorado, October 18-23, 2003.

18. Luckasevic TM, Omalu BI, "Sudden and Unexpected Death Following Bariatric Surgery for Morbid Obesity." Poster Presentation at the United States and Canadian Association of Pathology 2004 Annual Meeting, Vancouver, British Columbia, Canada; March 6 – 12, 2004.

19. Omalu BI, "Diagnosis of Alzheimer's disease in an exhumed decomposed brain after twenty months of burial in a deep grave". Poster Presentation at the American Association of Neuropathologists (AANP) 2004 Annual Meeting, Cleveland, Ohio, June 24-27, 2004.

Abstract Presentations and Publications - 4

20. Omalu BI, "Chronic traumatic encephalopathy and the National Football League" Poster Presentation at the American Association of Neuropathologists (AANP) 2004 Annual Meeting, Cleveland, Ohio, June 24-27, 2004.

21. Omalu BI, "Diagnosis of Alzheimer's disease in an exhumed decomposed brain after twenty months of burial in a deep grave". Poster Presentation at the National Association of Medical Examiners (NAME) 2004 Annual Meeting, Nashville, TN, September, 10-15, 2004.

22. Omalu BI, "Chronic traumatic encephalopathy and the National Football League" Poster Presentation at the National Association of Medical Examiners (NAME) 2004 Annual Meeting, Nashville, TN, September, 10-15, 2004.

23. Ionescu DN, Naus GJ, Shakir AM, Omalu BI. Autopsy findings, manner and cause of death in nursing home deaths investigated by the Allegheny county coroner's Office, Pennsylvania: a five year retrospective review. Poster Presentation at the United States and Canadian Academy of Pathology 2005 Annual Meeting, San Antonio, Texas, February 26 – March 4, 2005.

24. Lindner JL, Omalu BI, Alhaji B, Shakir AM, Silverman JF, Wecht CH. Nursing home deaths which fall under the jurisdiction of the coroner: an 11-year retrospective study. United States and Canadian Academy of Pathology 2006 Annual Meeting, Atlanta, Georgia, February 11 – 17, 2006.

25. Omalu BI, Ives DG, Buhari AM, Lindner JL, Schauer PR, Wecht CH, Kuller LH. Death rates and causes of death following bariatric surgery for pennsylvania residents, 1995 to 2004. American Diabetes Association, 66P^{thP} scientific session, June 9Pth – 13Pth, 2006, Washington, DC.

Abstract Presentations and Publications - 5

26. Omalu BI, Lindner JL, Hamilton RL, Minster RL, Kamboh MI, Abdulrezak AM, DeKosky ST. A comparison of chronic traumatic encephalopathy in two national football league players. American Association of Neuropathologists, 26th International Congress of Neuropathology, September 10 – 15, September 10th – 15th, 2006, San Francisco, California.

27. Lindner JL, Omalu BI, Shakir AM. Nursing home deaths, which fall under the jurisdiction of the medical examiner. An eleven year retrospective review. 2006 national meeting of the National Association of Medical Examiners. October 2006, San Antonio, Texas.

28. Lindner JL, Omalu BI, Ives DG, Buhari AM, Lindner JL, Schauer PR, Wecht CH, Kuller LH. Death rates and causes of death following bariatric surgery for Pennsylvania residents, 1995 to 2004. 2006 national meeting of the National Association of Medical Examiners. October 13 – 17, 2006, San Antonio Texas

29. Omalu BI. The emerging role of forensic pathologists in identifying cases of chronic traumatic encephalopathy in NFL players. 2007 Annual meeting of the National Association of Medical Examiners, October 12 – October 17, 2007, Savannah, Georgia.

30. Lindner JL, Omalu BI. The role of environmental factors in the causation of sudden death in infants: two cases of sudden unexpected death in two unrelated infants who were cared for by the same babysitter. 2007 Annual meeting of the National Association of Medical Examiners, October 12 – October 17, 2007, Savannah, Georgia.

31. Lindner JL, Omalu BI. Forecasting as an operations management tool in a medical examiner's office. 2007 Annual meeting of the National Association of Medical Examiners, October 12 – October 17, 2007, Savannah, Georgia.

Abstract Presentations and Publications - 6

32. Bailes J, Omalu BI. Spectrum of Consequences of Sports-Related Mild Traumatic Brain Injury. 2008 annual meeting of the American Academy of Neurological Surgeons, September 8, Phoenix, Arizona.

33. Bailes JE, Omalu B: Chronic Traumatic Encephalopathy: Autopsy analysis in professional and contact sport athletes. Presented at: American Academy of Neurological Surgery 71st annual meeting, West Palm Beach, Florida, November 2009.

34. Omalu B, Chronic Traumatic Encephalopathy: My Understanding of What We Can do Moving Forward. 13th Annual Society for Brain Mapping and Therapeutics. Miami, Florida, April 9th, 2016.

35. Omalu B, CTE and FDDNP: Blast and Non-Blast Variants. 13th Annual Society for Brain Mapping and Therapeutics. Miami, Florida, April 9th, 2016.

36. Omalu B, Chronic Traumatic Encephalopathy, Conformational Intelligence and the Law. April 23, 2017. Association of Defense Trial Attorneys, 2017 Annual Meeting, April 19-23, 2017, Monterey, California.

Internet, Newspaper and Newsletter Articles and Publications- 1

1. CTE Discoverer: We Shouldn't Be Surprised That Aaron Hernandez Had CTE. Op-Ed Contribution, Fortune.com, September 26, 2017. http://fortune.com/2017/09/26/bennet-omalu-cte-aaron-hernandez/?iid=sr-link1

2. Concussions and NFL: How the name CTE came about. CNN, Political Op-Eds/ Social Commentary Contribution. December 22, 2015.

3. Don't Let Kids Play Football. New York Times Op-Ed Contribution, December 7, 2015.

4. Founder, http://www.Neo-Forenxis.com, an internet medico-legal consulting and autopsy service company, September 2006.

5. Ionescu DN, Janssen JK, Omalu BI. A 49-year-old white woman found dead in her bed. Clinical pathology case of the month, Department of Pathology, University of Pittsburgh. http://path.upmc.edu/casemonth/cp-casemonth.html, November 2004, Case 407, Forensic Toxicology.

6. Omalu B, A forensic perspective of suicide. Coroner's Gazette, Allegheny County Coroner's Office: 2000 June; 6:4-8.

7. Dr. Bennet Omalu, Sacrament of marriage protective factor against suicide, Commentary, Pittsburgh Catholic Newspaper; Page 5, Friday, February 20, 2004

8. Bennet I. Omalu, MD, MPH, Announcing Beta-Amyloid Precursor Protein Immunohistochemistry for the Forensic Pathology Practice. A newsletter circulated to all members of the National Association of Medical Examiners, March 2004.

PART 3: COURT TESTIMONIES

CRIMINAL CASES

NOTE: I began keeping records in June 2009. I do not have records from 1999 to 2009, a period of ten years.

1. The People of the State of California vs. Amera Khalid Addi. Superior Court of California, County of San Joaquin, California. Trial, June 4, 2009. LF010386.

2. The People of the State of California vs.Gerardo Antonio Orozco, Jose Jesus Gomez, Steven Mickey Alvarado. Superior Court of California, County of San Joaquin, California. Preliminary Hearing, June 8, 2009. SF111174.

3. The People of the State of California vs. Rammel Barao, Vandell Johnson, Jr. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 28, 2009. SF111178.

4. The People of the State of California vs. Gabriel Isidore Olivarez, Ruben Carrillo. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 24, 2009. SF111555.

5. The People of the State of California vs. Terrance Graham. Supeior Court of California, County of San Joaquin, California. Preliminary Hearing. July 20, 2009. SF111544.

6. The People of the State of California vs. Melissa Huckabee. Superior Court of California, County of San Joaquin. California. Grand Jury. July 21, 2009. DA# 2535.

7. The People of the State of California vs. Chanreasmey Prum, Rattany Uy, Michael Andrew Garduno, Deandre Cole. Superior Court of California, County of San Joaquin, California. Trial. August 4, 2009. SF107288.

8. The People of the State of California vs. Raymond Lee Dale. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 5, 2009. MM118508.

9. The People of the State of California vs. Anthony Santos Mejorado, Issac Joseph Mejorado. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 25, 2009. SF111696.

10. The People of the State of California vs. Daniel Seth Maciel, Jaime Ledezma Baro, Travis Leon Carter, Debbie Rosemarie Perez, Roy Allen Thierry. Superior Court of California, County of San Joaquin, California. Trial. September 18, 2009. SF105792.

11. The People of the State of California vs. Dejon Whitfield, Djuane Hicks, Edward Adams. Superior Court of California, County of San Joaquin, California. Grand Jury. September 23, 2009. DA# 2550.

12. The People of the State of California vs. Jesse Refugio Tellez. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 15, 2009. SF112270.

13. The People of the State of California vs. Sidney Kelley, David Depron, Erica Crystal Vergara, Amanda Nicole Newitt. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 20, 2009. SF107969.

14. The People of the State of California vs. Terry Lynn Herron. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 28, 2009. SF112494.

15. The People of the State of California vs. Mario Pena. Superior Court of California, County of San Joaquin, California. Trial. November 4, 2009. MF031224.

16. The People of the State of California vs. Jorge Morgan, Robert Anthony Plunkett-Morgan. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 19, 2009. SF112590.

17. The People of the State of California vs. Jeffrey Haworth. Superior Court of California, County of San Joaquin, California. Trial. January 5, 2010. SF112033.

18. The People of the State of California vs. Joel Ladon Lewis, Gerell Lee Whatley, Delisa Rochelle Bryant. Superior Court of California, County of San Joaquin, California. Trial. January 22, 2010. SF110732.

19. The People of the State of California vs. Verra Torres. Superior Court of California, County of San Joaquin, California. Grand Jury. January 27, 2010. DA# 2571.

20. The People of the State of California vs. Richard Tihomir Lukic. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. February 3, 2010. SF113247.

21. The People of the State of California vs. Gabriel Isidore Olivarez, Ruben Carrillo. Superior Court of California, County of San Joaquin, California. Trial. February 18, 2010. SF111555.

22. The People of the State of California vs. Jose Jesus Perez, Jose Gutierrez. Superior Court of California, County of San Joaquin. Preliminary Hearing. February 19, 2010. SF113004.

23. The State of Nevada vs. Victor Olusegun Fakoya. Clark County District Court, Nevada. Trial. February 24, 2010. 08F22346X/C249790.

24. The People of the State of California vs. Anthony Adell Hubbard. Superior Court of California, County of San Joaquin. Preliminary Hearing. March 2, 3, 2010. SF113328.

25. The People of the State of California vs. Gerardo Antonio Orozco, Jose Jesus Gomez, Steven Mickey Alvarado. Superior Court of California, County of San Joaquin. Trial. March 10, 2010. SF111174.

26. Commonwealth of Virginia vs. Elmer Jonathan Midence. Circuit Court of Fairfax County, Virginia. Trial. March 11, 2010. FE-2009-0000914.

27. The People of the State of California vs. Ghanem Valdimar Elsumeri. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 23, 2010. SF113429.

28. The People of the State of California vs. Michael Dwayne Mau, Johnny Joseph Martinez, Elvis Mendoza, Cecilia Naomi Colon, Maria De La Luz Martinez. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 28, 2010. SF113131.

29. The People of the State of California vs. Leopoldo Carranza. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 28, 2010. SF113697.

30. The People of the State of California vs. Baljit Singh. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 7, 2010. SF113711.

31. The People of the State of California vs. Antonio Perez Ford. Superior Court of California, County of San Joaquin, California. Trial. May 12, 2010. SF106558.

32. The People of the State of California vs. James Washington. Superior Court of California, County of Sacramento, California. Trial. May 18, 2010. 08F04720.

33. The People of the State of California vs. Jose Rodriguez Cardenas, Ramon Enriquez Mendez. Superior Court of California, County of San Joaquin, California. Trial. May 20, 2010. SF106859.

34. The People of the State of California vs. Arthur Carlos Garcia. Superior Court of California, County of San Joaquin, California. Trial. May 26, 2010. SF107299.

35. The People of the State of California vs. Junior Barrasa. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 2, 2010. SF113295.

36. The People of the State of California vs. Percy Lamonte Camel. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 8, 2010. SF114327.

37. The People of the State of California vs. Ricardo David Tabios. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. July 13, 2010. SF112508.

38. The People of the State of California vs. David Leon Lagrimas. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. July 14, 2010. SF114042.

39. The People of the State of California vs. Rammel Barao, Vandell Johnson, Jr. Superior Court of California, County of San Joaquin, California. Trial. August 3, 2010. SF111178.

40. The People of the State of California vs. Jose Luis Lopez. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 9, 2010. SF114511.

41. The People of the State of California vs. Siphanna Touch, Dinunn Chan. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 30, 2010. SF114812.

42. The People of the State of California vs. Robert Alexis Turner, Allen John Periman, Valerie Nessler. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 8, 2010. SF114626.

43. The People of the State of California vs. Patrick John Forrester. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 14, 2010. SF114825.

44. The People of the State of California vs. Leopoldo Carranza. Superior Court of California, County of San Joaquin, California. Trial. September 28, 2010. SF113697.

45. The People of the State of California vs. Jose Jesus Perez, Jose Gutierrez. Superior Court of California, County of San Joaquin, California. Trial. October 1, 2010. SF113004.

46. The People of the State of California vs. Mitchell Barron. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 12, 2010. SF114979.

47. The People of the State of California vs. Kevin Harrison. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 18, 2010. SF115281.

48. The People of the State of California vs. Maria Colunga and Elias Armenta. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 28, 2010. SF111623.

49. The People of the State of California vs. Jose Antonio Vega. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 29, 2010. SF115481.

50. The People of the State of California vs. Patrick Devora. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 1, 2010. SF115194.

51. The People of the State of California vs. Nicholas Ferrell Emmett. Superior Court of California, County of Sacramento, California. Preliminary Hearing. November 5, 2010. 09F04994.

52. The People of the State of California vs. Michael Dwayne Mau, Johnny Joseph Martinez. Superior Court of California, County of San Joaquin, California. Trial. November 9, 2010. SF113131.

53. The People of the State of California vs. Douglas Andre Thomas, Jr. Superior Court of California, County of Sacramento, County of San Joaquin, California. Preliminary Hearing. November 19, 2010. SF114273.

54. The People of the State of California vs. Gregory Michael Rice. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 30, 2010. SF114606.

55. The People of the State of California vs. Jesse Refugio Tellez. Superior Court of California, County of San Joaquin, California. Trial. December 1, 2010. SF112270.

56. The State of Nevada vs Victor Olusegun Fakoya. Clark County District Court, Clark County, Nevada. Trial. December 6, 7, 2010. 08F22346X/C249790.

57. The People of the State of California vs. Marco Antonio Rios. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. December 29, 2010. SF115976.

58. The People of the State of California vs. Demario Josh Langford. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 3, 2011. SF115727.

59. The People of the State of California vs. Tiffany Ann Holmes. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 18, 2011. SF115318.

60. The People of the State of California vs. Anthony Paul Acosta. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 24, 2011. SF115873.

61. The People of the State of California vs. Alexander Suliven. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 24, 2011. SF115230.

62. The People of the State of California vs. Baljit Singh. Superior Court of California, County of San Joaquin, California. Trial. February 3, 8, 2011. SF113711.

63. The People of the State of California vs. Michael Sokkhorm May, Kaller Sam, Ron Korm, Jereme Sin, Allen Phalit, Eddi Yam, Savann Rang and Ly Jan So. Superior Court of California, County of San Joaquin, California. Grand Jury. February 9, 2011. DA#2598.

64. The People of the State of California vs. Edgar Jose Canseco. Superior Court of California, Count of San Joaquin, California. Preliminary Hearing. March 1, 2011. SF115887.

65. The People of the State of California vs. Alphonze Fitzhugh. Superior Court of California, County of San Joaquin, California. Grand Jury. March 3, 2011. DA#2632.

66. The People of the State of California vs. Angelo Marcus Gonzales, Lionzo Angel Villarreal. Superior Court of California, County of San Joaquin, California. March 14, 2010. SF115628.

67. The People of the State of California vs. Noah Eugene Duenas. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. Preliminary Hearing. March 22, 2011. SF116082.

68. The People of the State of California vs. Benjamin Serratos III. Superior Court of California, County of San Joaquin, California. Preliminary Hearing, March 28, 2011. SF115116.

69. The People of the State of California vs. Richard Tihomir Lukic. Superior Court of California, County of San Joaquin, California. Jury Trial. March 29, 2011. SF113247.

70. The People of the State of California vs. Genaro Torres Jr. Superior Court of California, County of San Joaquin, California. Grand Jury. April 7, 2011. DA# 2638.

71. The People of the State of California vs. Bobby Suriyan. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 22, 2011. SF115112.

72. The People of the State of California vs. Jose Rodriguez Cardenas. Superior Court of California, County of San Joaquin, California. Trial. April 27, 2011. SF106859.

73. The Commonwealth of Virginia vs. Antonio B. Rueda [AKA: Antonio Barron]. Floyd County Circuit Court, Virginia. Trial. May 5, 2011. CR10-09.

74. The People of the State of California vs. Brandon Cole Lagorio. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 9, 2011. LF012214.

75. The People of the State of California vs. John Joseph Lydon. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 9, 2011. SF115784.

76. The People of the State of California vs. Ignacio Felix. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 16, 2011. SF116259.

77. The People of the State of California vs. Demario Josh Langford. Superior Court of California, County of San Joaquin, California. Trial. May 17, 2011. SF115727.

78. The People of the State of California vs. Georgina Nunez, Hamid Abid Flores. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 6, 2011. SF117178.

79. The People of the State of California vs. Patrick John Forrester. Superior Court of California, County of San Joaquin, California. Trial. June 17, 21, 2011. SF114825.

80. The People of the State of California vs. Robert Alexis Turner, Allen John Periman, Valerie Nessler. Superior Court of California, County of San Joaquin, California. Trial. June 30, 2011. SF114626.

81. The People of the State of California vs. David Leon Lagrimas. Superior Court of California, County of San Joaquin, California. Trial. July 21, 2011. SF114042.

82. Commonwealth of Virginia v. Stephanie Renee Scates. Circuit Court of the County of Pittsylvania, Virginia. Trial. July 25, 2011. CR10000525-00/CR10000850-00.

83. The People of the State of California vs. Jose Antonio Valle. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 2, 2011. SF116354.

84. The People of the State of California vs. Jose Antonio Vega. Superior Court of California, County of San Joaquin, California. Trial. August 17, 2011. SF115481.

85. The People of the State of California vs. Gerardo Antonio Orozco, Jose Jesus Gomez, Steven Mickey Alvarado. Superior Court of California, County of San Joaquin, California. Trial. September 1, 2011. SF111174.

86. The People of the State of California vs. Courtney Brown. Superior Court of California, County of San Joaquin, California. Grand Jury Testimony. September 12, 2011. SP07-42491.

87. The People of the State of California vs. Howard Daniel Smith. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 20, 2011. SF117208.

88. The People of the State of California vs. Alberto Francisco Lara, Issiah Flores, Aurelio Espinoza, Jr. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 21, 2011. SF116240.

89. The People of the State of California vs. Patricia Lopez. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 26, 2011. SF116883.

90. The State of Maryland vs. David Bolding. Circuit Court for Prince George's County, Maryland. Trial. October 13, 2011; October 17, 2011. 101221X.

91. The People of the State of California vs. Djuane Nunley, Dorjan Lyndell and Marcus McCliman. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 14, 2011. SFII8124.

92. The State of Nevada vs. Cody Brian Wallace. Justice Court of Walker River Township, County of Lyon, State of Nevada. Preliminary Hearing. October 16, 2011. 10 CR 00385 3H

93. The People of the State of California vs. Luciano Michael Mejia. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 28, 2011. SF117784.

94. The People of the State of California vs. Angelo Marcus Gonzales, Lionzo Angel Villarreal. Superior Court of California, County of San Joaquin, California. Trial. December 9, 2011. SF115628.

95. The Commonwealth of Virginia vs. Junior Kamper Spradlin. In the Circuit Court of Washington County, Virginia. Trial. December 13, 2011. CR11-594.

96. The People of the State of California vs. Bianca Armstead. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. December 15, 2011. SF116605.

97. The People of the State of California vs. Xavier Spivey, Stedviano Mayes. Superior Court of California, County of San Joaquin, California. Grand Jury. December 15, 2011. 11-24963/GJ-2011-4013055.

98. The People of the State of California vs. Michael Harmon. Superior Court of California, County of Sacramento, California. Trial. December 19, 2011. 11F06107.

99. The People of the State of California vs. Aushua Mcduff-Brown. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. December 20, 2011. SF118629.

100. The People of the State of California vs. Junior Barrasa. Superior Court of California, County of San Joaquin, California. Jury Trial. December 23, 2011. SF113295.

101. The People of the State of California vs. Gonzalo Riquelme, Miguel Valle. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 3, 2012. SF118647.

102. The People of the State of California vs. Howard Lamont Eady. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 9, 2012. SF117609.

103. The People of the State of California vs. Fernando Valdez. Superior Court of California, County of San Joaquin, California. Trial. January 19, 2012. SF115526.

104. The People of the State of California vs. Donald Lee Wilson. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 23, 2012/March 1, 2012/March 5, 2012. SF118090.

105. The People of the State of California vs. Noah Duenas. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. February 2, 2012. SF116082 (A).

106. The State of Nevada vs. Lisanewerk Gebresilassie. Las Vegas Justice Court, Clark County, Las Vegas, Nevada. Preliminary Hearing. February 8, 2012. 11F17023X.

107. The People of the State of California vs. Benjamin Serrotos, III. Superior Court of California, County of San Joaquin, California. Trial. February 15, 2012. SF115116.

108. The People of the State of California vs. Anthony Paul Acosta. Superior Court of California, County of San Joaquin, California. Trial. February 28, 2012. SF118511.

109. The People of the State of California vs. Eddie Sandoval Lopez. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. February 29, 2012. SF119144.

110. The People of the State of California vs. Feliciano Lopez and Alajandro Sanchez. Superior Court of California, County of San Joaquin, California. Grand Jury. March 2, 2012. S010-09651.

111. The People of the State of California vs. Dawson Andrew Mcgehee. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 28, 2012. SF118835.

112. The People of the State of California vs. Jason Ross Gilley. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 16, 2012. SF118737.

113. The People of the State of California vs. Rebecca Mendoza. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 17, 2012. SF119652.

114. The People of the State of California vs. Devon Omar Epps. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 24, 2012. SF119095.

115. The People of the State of California vs. Robert Alexis Turner, Allen John Periman, Valerie Nessler. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 2, 2012. SF114626.

116. The People of the State of California vs. Jonathan Casas. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 14, 2012. SF119416.

117. The People of the State of California vs. Edgar Canseco, Emmanuel Mendoza. Superior Court of California, County of San Joaquin, California. Trial. June 1, 2012. SF115887.

118. The People of the State of California vs. Richard Gonzalez, Jr. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 27, 2012. SF119941.

119. The People of the State of California vs. Tammi Harris. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 27, 2012. SF117439.

120. The People of the State of California vs. Alberto Lara, Issiah Flores, Aurelio Espinoza, Jr. Superior Court of California, County of San Joaquin. Jury Trial. August 8, 2012. SF116240.

121. The People of the State of California vs. Link Rhodes, III. Superior Court of California, County of San Joaquin. Preliminary Hearing. July 18, 2012. SF120193.

122. The People of the State of California vs. Jose Antonio Vega. Superior Court of California, County of San Joaquin. Jury Trial. August 23, 2012. SF115481.

123. The People of the State of California vs. Demetrius Anderson. Superior Court of California, County of San Joaquin. Grand Jury. August 23, 2012. SP12-01979.

124. The People of the State of California vs. Manuel Guzman. Superior Court of California, County of Sacramento. Jury Trial. August 30, 2012. IIFO5045.

125. The People of the State of California vs. Robert Antonio Barnes, Carlos Alberto Hernandez. Superior Court of California, County of San Joaquin. Jury Trial. September 7, 2012. SF117037.

126. The People of the State of California vs. Ashik Ali Zane. Superior Court of California, County of San Joaquin. Preliminary Hearing. September 10, 2012. SF118453.

127. The People of the State of California vs. Tushambi Evans and Jamela Evans. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 12, 2012. SF119970.

128. The People of the State of California vs. Terrell Lamont Washington and Link Rhodes. Superior Court of California, County of San Joaquin, California. Grand Jury. October 2, 2012. SP12-10681.

129. The People of the State of California vs. Aushua Mcduff-Brown. Superior Court of California, County of San Joaquin, California. July Trial. October 4, 2012. SF118629.

130. The People of the State of California vs. Stephen Carriero. Superior Court of California, County of San Joaquin, California. Grand Jury. October 15, 2012. TP12-04806.

131. The People of the State of California vs. Djuane Nunley, Durjan Lyndell Daniels and Marcus Mccliman. Superior Court of California, County of San Joaquin, California. Jury Trial. October 31, 2012. SF118124.

132. The People of the State of California vs. Dawson Andrew Mcgehee. Superior Court of California, County of San Joaquin, California. Jury Trial. November 8, 2012. SF118835.

133. The State of Nevada vs. Kevin Lee Travis. Justice's Court of New River Township, County of Churchill, State of Nevada. Preliminary Hearing. November 9, 2012. 12-CR-00041.

134. The People of the State of California vs. Bobby Suriyan. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. December 4, 2012. SF120760.

135. The State of Nevada vs. Robert Schnueringer, Zach Kelsey, and Andrue Jefferson. Second Judicial District Court of the State of Nevada. County of Washoe. Trial. December 10, 2012. WCSO WC12-001241.

136. The People of the State of California vs. Yor Xiong. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. December 11, 2012. SF120774.

137. The People of the State of California vs. Devon Omar Epps. Superior Court of California, County of San Joaquin, California. Trial. December 20, 2012. SF119095.

138. The People of the State of California vs. Isaac Martinez. Superior Court of California, County of San Joaquin, California. Grand Jury. December 20, 2012. SO11-21376.

139. The People of the State of California vs. John Joseph Lydon. Superior Court of California, County of San Joaquin, California. Jury Trial. January 16, 2013. SF115784.

140. The People of the State of California vs. Anthony Santos Mejorado, Issac Joseph Mejorado. Superior Court of Calfornia, County of San Joaquin, California. Jury Trial. February 6, 2013. SF111696.

141. The State of Nevada vs. Diego Nochebuena. Eight Judicial District Court, Clark County, Nevada. Motion Hearing. February 28, 2013. C-11-270267-1.

142. The People of the State of California vs. Stedvieno Mayes, Xavier Spivey and Shameka Evans. Superior Court of California, County of San Joaquin, California. Jury Trial. March 5, 2013. SF119150.

143. The People of the State of California vs. Brandon Riberal, Raymond Vallis, Rocky Riberal, Vincente Yanez, Carlos Zendejas. Superior Court of California, County of San Joaquin, California. Grand Jury. March 11, 2013. SP12-11070.

144. The People of the State of California vs. Jay Loren Prater. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 25, 2013. SF120867.

145. The People of the State of California vs. Otilio Garcia. Superior Court of California, County of San Joaquin, California. Grand Jury. March 26, 2013. SO12-28688.

146. The People of the State of California vs. Alfredo Reyes Reyes. Superior Court of California, County of San Joaquin, California. Grand Jury. April 9, 2013. S082-01452.

147. The People of the State of California vs. Charlie Dumlao. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 10, 2013. SF121232.

148. The People of the State of California vs. Michael Sokkhorm Muy, Kailler Sam, Ron Korm. Superior Court of California, County of San Joaquin, California. Jury Trial. April 25, 2013. SF116876.

149. The People of the State of California vs. James Elron Mings. Superior Court of California, County of Yolo, California. Jury Trial. May 7, 2013. 13-0828.

150. The People of the State of California vs. Oscar Gaspar. Superior Court of California, County of Sacramento, California. Motion Hearing. May 22, 2013. 11F05744.

151. Commonwealth of Virginia v. Vanesa Patricio Cruz. The Circuit Court for Loudoun County, Leesburg, Virginia. Jury Trial. May 29 and 30, 2013. CR23981.

152. People of the State of California vs. Angelo Dunya Wright. Superior Court of California, County of Sacramento, California. Jury Trial. June 10, 2013. 11F07773.

153. The People of the State of California vs. Oscar Gaspar. Superior Court of California, County of Sacramento, California. Jury Trial. June 18, 2013. 11F05744.

154. The People of the State of California vs. Tushambi Evans and Jamela Evans. Superior Court of California, County of San Joaquin, California. Motion Hearing. June 24, 2013. SF119970.

155. The State of Nevada v. Paul Mathew Revell. Second Judicial District Court of the State of Nevada, County of Washoe, Reno, Nevada. Discovery Motion Hearing. August 9, 2013. CR12-1874.

156. Yolo County Grand Jury, California, Samuel Stone, #A12-0691, Office of the District Attorney, Yolo County, Woodland, California. Grand Jury Testimony. August 20, 2013.

157. The People of the State of California vs. Otilio Lee Garcia. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. September 12, 2013. SF125241.

158. The People of the State of California vs. Jason Ross Gilley. Superior Court of California, County of San Joaquin, California. Jury Trial. September 13, 2013. SF118737.

159. The People of the State of California vs. Percy Lamonte Camel. Superior Court of California, County of San Joaquin, California. Jury Trial. September 27, 2013. SF114327.

160. The People of the State of California vs. Percy Lamonte Camel. Superior Court of California, County of San Joaquin, California. Jury Trial. October 4, 2013. SF114327.

161. The People of the State of California vs. Anthony Nabor Orosco. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 8, 2013. SF123417.

162. The People of the State of California vs. Edgar Frayre. Superior Court of California, County of San Joaquin, California. Grand Jury. October 9, 2013. SP13-31815.

163. The People of the State of California vs. Tushambi Evans and Jamela Evans. Superior Court of California, County of San Joaquin, California. Trial. October 24, 25, 2013; November 18, 2013. SF119970.

164. The People of the State of California vs. Miguel Araiza, Jr. Superior Court of California, County of San Joaquin, California. Trial. November 26, 2013. SF119827.

165. The People of the State of California vs. Bobby Suriyan. Superior Court of California, County of San Joaquin, California. Trial. December 4, 2013. SF120760.

166. Commonwealth of Virginia v. Vanesa Patricio Cruz. The Circuit Court for Loudoun County, Leesburg, Virginia. Jury Trial. December 19, 20, 2013. CR23981.

167. The People of the State of California vs. Miguel Flores. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 6, 2014. SF124973.

168. State of Nevada vs. Patrick Cody McCormick. Fourth Judicial District of the State of Nevada in and for the County of Elko, Nevada. Evidentiary Hearing. January 7, 2014. CR-FP-95-6248.

169. The People of the State of California vs. Jesse Leon Helm. Superior Court of California, County of San Bernardino, Victorville Superior Court, California. Preliminary Hearing. January 9, 2014. FV11201162.

170. The People of the State of California vs. Otilio Lee Garcia. Superior Court of California, County of San Joaquin, California. Jury Trial. February 25, 2014. SF125241.

171. State of Nevada vs. Leonardo Cardoza. In the Justice Court of Carson Township in and for Carson City, State of Nevada, Carson City, Nevada. Jury Trial. February 27, 2014. 13 CR 00059 1B.

172. The People of the State of California vs. Charlie Dumlao. Superior Court of California, County of San Joaquin, California. Jury Trial. February 28, 2014. SF121232.

173. The People of the State of California vs. Brandon Rocky Riberal, Raymond Valles, Rocky Riberal, Vincente Yanez and Carlos Zendejas. Superior Court of California, County of San Joaquin, California. Jury Trial. March 18, 2014. SF123374.

174. The People of the State of California vs. Christopher Robinson. Superior Court of California, County of San Joaquin. Preliminary Hearing. March 21, 2014. SF126631.

175. The People of the State of California vs. Stephen James Rodriguez, Matthew Ornelas and Herbis Sanchez Sauceda. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 26, 2014. SF125294.

176. The People of the State of California vs. Michael McKuin. Superior Court of California, County of San Joaquin. Grand Jury Hearing. March 27, 2014. SO13-00014.

177. The People of the State of California vs. Joshua Adam Franklin. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. March 27, 2014. SF124959.

178. The People of the State of California vs. Juan Julius Barnes, Terrance Lee Adams and Deandre Lamont Adams. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 1, 2014. SF124679.

179. The People of the State of California vs. Jerome Sidney Deavila. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 3, 2014. SF123201.

180. The People of the State of California vs. Tammi Harris. Superior Court of California, County of San Joaquin, California. Jury Trial. April 9, 2013. SF117439.

181. The People of the State of California vs. Yvonne Nichole Gallardo. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 14, 2014. SF125711.

182. The People of the State of California vs. Quentin Paul Stone. Superior Court of California, Yolo County, California. Jury Trial. May 6, 2014; May 15, 2014. 13003357.

183. The People of the State of California vs. Sergio Reyes. Superior Court of California, County of Sacramento, California. Jury Trial. May 7, 2014. 13F07721.

184. The People of the State of California vs. Matthew Ornelas and Herbis Sanchez Sauceda. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 9, 2014. SF125294.

185. The People of the State of California vs. Derrick Ware, Dameon Spragans and Robert McNeally. Superior Court of California, County of Contra Costa, California. Jury Trial. May 15, 2014. 5110797-8.

186. The People of the State of California vs. John Sylvester Collier, III. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 16, 2014. SF125355.

187. The People of the State of California vs. Eric Mitchell. Superior Court of California, County of Sacramento, California. Jury Trial. May 21, 2014. 13FO5850.

188. The People of the State of California vs. Zane Ali Ashik. Superior Court of California, County of San Joaquin, California. Jury Trial. August 8, 2014. SF118453.

189. The People of the State of California vs. Dwight Wilson Slay, Jr. and Latima Denise Coleman. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 19, 2014; August 26, 2014. SF127718.

190. The People of the State of California vs. Bobby Sherell Miller and Kyren Nicodemus Nicholson. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 20, 2014. SF127084.

191. The People of the State of California vs. David Plan and Brandon Gann. Superior Court of California, County of San Joaquin, California. Jury Trial. September 3, 2014. SF122517.

192. The People of the State of California vs. Rebecca Mendoza. Superior Court of California, County of San Joaquin, California. Jury Trial. September 19, 2014. SF119652.

193. The People of the State of California vs. Gary Miguel. Superior Court of California, County of Sacramento, California. Jury Trial. October 3 and 6, 2014. 13F03791.

194. The People of the State of California vs. Christopher Robinson. Superior Court of California, County of San Joaquin, California. Jury Trial. October 14, 2014. SF126631.

195. The People of the State of California vs. Juan Julius Barnes and Deandre Lamont Adams. Superior Court of California, County of San Joaquin, California. Jury Trial. October 17, 2014. SF124679.

196. The People of the State of California vs. Christopher Emery, Steve Schleimer, Joseph Dibartolomeo and Brian Ice. Superior Court of California, County of San Joaquin, California. Grand Jury. October 27, 2014. SO13-23454.

197. The People of the State of California vs. Longino Lamort Tolefree. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. October 28, 2014. SF126699.

198. The State of Nevada vs. Paul Mathew Revell. Second Judicial District Court, State of Nevada, County of Washoe. Jury Trial. November 13 and 19, 2014. CR12-1874/D03.

199. The People of the State of California vs. Robert Thomas. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 14, 2014. SF127496.

200. The People of the State of California vs. Nicholas Medina. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. November 20, 2014. SF127256.

201. State of Nevada vs. Brittany Michelle Paugh. In the Justice Court of Carson Township and for Carson City, State of Nevada. Sentencing Hearing. December 30, 2014. 14 CR 00017 1B.

202. The People of the State of California vs. Jorge Aceves-Cortez. Superior Court of California, County of Kern, California. Jury Trial. January 12, 13, 2015. BF151070A.

203. The People of the State of California vs. Francisco Javier Gonzalez Rivera. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. February 3, 2015. SF129196.

204. The State of Nevada vs. Tatiana Leibel. In the Ninth Judicial District Court of the State of Nevada in and for the County of Douglas, Nevada. Jury Trial. February 4, 2015. 14-CR-0062.

205. The People of the State of California vs. Coleen Iva Marie Torres. Superior Court of California, County of San Joaquin, California. Jury Trial. March 3, 2015. SF125122.

206. The People of the State of California vs. Brian Michael Hrenko. Superior Court of California, County of San Joaquin, California. Jury Trial. March 18, 2015. SF125618.

207. The People of the State of California vs. Kenneth Charles Stringfellow. Superior Court of California, County of Plumas, California. Jury Trial. March 30, 2015. F13-00929.

208. The People of the State of California vs Keith Darnell Denegal, Jr. Superior Court of California, County of San Joaquin. California. Preliminary Hearing. April 6, 2015. SF129019.

209. The People of the State of California vs Yor Xiong. Superior Court of California, County of San Joaquin, California. Jury Trial. April 7, 2015. SF120774.

210. The People of the State of California vs Charlie Srey. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 13, 2015. SF127198.

211. The People of the State of California vs Terrance Jerome Boone, Christon Williams Clark Jones. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. April 14, 2015. SF129328.

212. The People of the State of California vs. Zachary Hurlburt-Erhardt. Superior Court of California, County of San Joaquin, California. Grand Jury Hearing. May 7, 2015. MP14-25661.

213. The People of the State of California vs. Bryan Scott and Valentina Ann Paz. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 12, 2015. SP14-00215.

214. The People of the State of California vs. Juan Cristobal Sanchez. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. May 21, 2015. SO14-17957.

215. The State of Nebraska vs. Brittney Pryce. District Court of Custer County, Nebraska. Deposition. May 29, 2016 and July 1, 2016. CR14-18.

216. The People of the State of California vs. Aaron Kajaun Mckenzie. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 8, 2015. SP12-10681.

217. The People of the State of California vs. Anthony Nabor Orosco. Superior Court of California, County of San Joaquin, California. Jury Trial. June 17, 2015. SP13-09851.

218. The People of the State of California vs. Robert Lee White. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. June 30, 2015. SP14-29281.

219. The People of the State of California vs. Fabian Scrivens. Superior Court of California, County of San Joaquin, California. Jury Trial. July 8 and 9, 2015. SP12-30066.

220. The People of the State of California vs. Eugene Gaines and Derrick McDowell. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 12, 2015. SP15-05441.

221. The State of Mississippi vs. Patricia Redman. In the Circuit Court of Desoto County, Mississippi. Jury Trial. August 20, 2015. CR2014-0604GCD.

222. The People of the State of California vs. Richard Howard Watkins. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. August 21, 2015. MP14-07142.

223. The People of the State of California vs. Anthony Blackowl. Superior Court of California, County of Sacramento, California. Jury Trial. September 1, 2015. 12FO5374.

224. The People of the State of California vs. Alfredo Reyes Reyes. Superior Court of California, County of San Joaquin, California. Jury Trial. October 21, 2015. SO82-01452.

225. The People of the State of California vs. John Wilburn. Superior Court of California, County of Kern, California. Jury Trial, November 2-3, 2015. BF150017A.

226. The People of the State of California vs. Grant Maurice Lavender. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 11, 2015. SP15-33905.

227. The People of the State of California vs. Andy Hem. Superior Court of California, County of San Joaquin, California. Preliminary Hearing. January 13, 2016. SP14-37451.

228. The People of the State of California vs. Leo Avita. Superior Court of California, County of San Joaquin, California. Grand Jury. January 13, 2016. SP14-25269.

229. The State of Nevada vs. Cody Brian Wallace. The Third Judicial District Court of the State of Nevada, County of Lyon. Jury Trial. February 15, 2016. CR 7960.

230. The People of the State of California vs. Ralph Hauerta Gamboa, Jesus Rodriguez and Sirenia Alcauter. Superior Court of California, County of San Joaquin, California. Prelminary Hearing. February 24, 2016. SP15-23069.

231. The People of the State of California vs. Christopher Lee Emery, Brian Andrew Ice, Stephen Charles Schleimer and Joseph Anthony Dibartolomeo. Superior Court of California, County of San Joaquin, California. Jury Trial. February 26, 2016. SO13-23454.

232. The People of the State of California vs. Longino Lamort Tolefree. Superior Court of California, County of San Joaquin, California. Jury Trial. March 3, 2016. MP14-01081.

233. The People of the State of California vs. Salvador Alexander Castro, II and Joseph Anthony Castro. Superior Court of San Joaquin County, California. Jury Trial. March 16, 2016. SP15-19945.

234. The People of the State of California vs. Shaun Terriel Perkins. Superior Court of San Joaquin County, California. Preliminary Hearing. March 21, 2016.

235. The People of the State of California vs. Grant Maurice Lavender. Superior Court of San Joaquin County, California. Jury Trial. April 5, 2016. SP15-33905.

236. The People of the State of California vs. Darnell Leshawn White and John Doe. Superior Court of San Joaquin County, California. Preliminary Hearing. April 18, 2016. SP15-40792.

237. The People of the State of California vs. Zachary Hurlburt Erhardt. Superior Court of San Joaquin County, California. Jury Trial. April 29, 2016. CR-2015-4095760.

238. The People of the State of California vs. Bryan Scott Cook. Superior Court of San Joaquin County, California. Jury Trial. May 5, 2016. SP14-00215.

239. The People of the State of California vs. Darnell Leshawn White. Superior Court of San Joaquin County, California, Jury Trial. July 5, 2016. SP15-40792.

240. The People of the State of California vs. Jorge Melchor Castro. Superior Court of the State of California, Count of Riverside, California, Jury Trial. July 12, 2016. INF1401570.

241. The People of the State of California vs. Bobby Sherell Miller and Kyren Nicodemus Nicholson. Superior Court of the State of California, County of San Joaquin, California, Jury Trial. July 13, 2016. SP14-06371.

242. The People of the State of California vs. Derrick Allen Brown. Superior Court of California, County of Riverside, California, Jury Trial. July 20, 21, 2016. RIF1400959.

243. The People of the State of California vs. Nicholas Medina. Superior Court of the State of California, Jury Trial. August 9, 2016. SP14-8019.

244. The People of the State of California vs. Sarah Josephine Zavala. Superior Court of the State of California, Preliminary Hearing. August 9, 2016. SP16-11551.

245. The People of the State of California vs. Terrance Jerome Boone and Christon Williams Clark Jones. Superior Court of the State of California, San Joaquin County. Jury Trial. August 19, 2016. TP14-37534.

246. The State of Nebraska vs. Brittney Pryce. District Court of Custer County, Nebraska. Jury Trial, August 24, 2016. CR14-18.

247. The People of the State of California vs. Michael McKuin. Superior Court of the State of California, San Joaquin County. Jury Trial. August 26, 2016. SO13-00014.

248. The People of the State of California vs. Robert Baguindo. Superior Court of the State of California, San Joaquin County. Preliminary Hearing. September 8, 2016. SP16-19073.

249. The People of the State of California vs. Randy Howard Francis. Superior Court of the State of California, San Joaquin County. Jury Trial. October 4, 2016. SP15-09500.

250. The People of the State of California vs. Darnell Deangelo Dorsey. Superior Court of the State of California, Yolo County. Jury Trial. October 17, 2016. 14000394.

251. The People of the State of California vs. Jorge Melchor Castro. Superior Court of the State of California, County of Riverside. Jury Trial. October 26, 2016. INF1401570.

252. The People of the State of California vs. Sarath Lon. Superior Court of the State of California, County of San Joaquin. Grand Jury. November 16, 2016. SP16-21917.

253. The People of the State of California vs. Longino Lamort Tolefree. Superior Court of the State of California, County of San Joaquin. Jury Trial. November 29, 2016. MP14-01081.

254. The People of the State of California vs. Marilyn Jean Gibson. Superior Court of California, County of Sacramento. Jury Trial. December 22, 2016. 16MI010914.

255. The People of the State of California vs. Rocky Allen Overturf. Superior Court of California, County of San Joaquin. Preliminary Hearing. February 2, 2017. EP16-01034.

256. The People of the State of California vs. Leon Carlyn Mayo. Superior Court of California, County of San Joaquin. Preliminary Hearing. February 6, 2017. SP16-18157.

257. The People of the State of California vs. Robert Lee White. Superior Court of California, County of San Joaquin. Jury Trial. February 17, 2017. SP14-29281.

258. The People of the State of California vs. Vesan Jordan Sem. Superior Court of California, County of San Joaquin. Preliminary Hearing. March 20, 2017. SO16-09783.

259. The People of the State of California vs. Kenneth Vanderford and Kevin Etherton. Superior Court of California, County of San Joaquin. Preliminary Hearing. March 27, 2017. LP16-07073.

260. The People of the State of California vs. Andrew Loren Sanchez. Superior Court of California, County of Merced. Jury Trial. April 11, 2017. 15CR-03437.

261. The People of the State of California vs. Andy Hem. Superior Court of California, County of San Joaquin. Jury Trial. May 9, 2017. SP14-37451.

262. The People of the State of California vs. Joel Lewis. Superior Court of California, County of San Joaquin. Jury Trial. May 24, 2017. SP08-55867.

263. The Commonwealth of Pennsylvania vs. Kenneth Reeves. In the Court of Common Pleas of Allegheny County, Pennsylvania. Jury Trial. May 30, 2017. CC 201501958.

264. The People of the State of California vs. James Philip Valadez. Superior Court of California, County of San Joaquin. Jury Trial. June 14, 2017. SP16-13114.

265. The People of the State of California vs. Juancarlos Villalpando-Lua and Guillermo Ivan Ibarra. Superior Court of California, County of San Joaquin. Jury Trial. August 25, 2017. SP15-28354.

266. The People of the State of California vs. Jamal Faulkner. Superior Court of California, County of San Joaquin, Preliminary Hearing. September 8, 2017. TP15-06732.

267. The People of the State of California vs. Richard Howard Watkins. Superior Court of California, County of San Joaquin, Jury Trial. September 21, 2017. MP14-07142.

PART 4: COURT TESTIMONIES- CIVIL CASES

NOTE: I began keeping records in June 2009. I do not have records from 1999 to 2009, a period of ten years.

1. Matthew Hicks et al, Complaint, George Walden Vs. Norfolk Southern Railway Company. The Circuit Court of Kanawha County, File No.: 02-C-9500, West Virginia. December 4, 2007. 00-C-46-RI. Deposition.

2. Cathy Batton, Executrix of the Estate of Dewey Batton Vs. CSX Corporation, CSX Transportation, Inc., Seaboard System Railroad, Inc., Seaboard Coast Line Railroad Company, Chessie System, Inc. New Hanover County, The General Court of Justice, Superior Court Division, North Carolina. August 4, 2008.7-CVS-4453. Deposition.

3. Cathy Batton, Executrix of the Estate of Dewey Batton Vs. CSX Corporation, CSX Transportation, Inc., Seaboard System Railroad, Inc., Seaboard Coast Line Railroad Company, Chessie System, Inc. The General Court of Justice, Superior Court Division, New Hanover County, North Carolina. February 23, 2009. 7-CVS-4453. Trial.

4. Robert T. Pritchard, Sr. and Elizabeth Ann Pritchard, his wife Vs. Dow Agro Sciences, a division of Dow Chemical Company, Southern Mill Creek Products of Ohio, and Risidex Corporation. United States District Court for the Western District of Pennsylvania. June 26, 2009. 07-CV-01621 (W.D. Pa.). Deposition.

5. Matthew Hicks et al, Complaint, George Walden Vs. Norfolk Southern Railway Company. The Circuit Court of Kanawha County, West Virginia. June 29, 2009. File No.: 02-C-9500. 00-C-46-RI. Deposition.

6. McConnell Vs. Dunfee et al. Philadelphia Court of Common Pleas, February Term, 2007, Pennsylvania. October 19, 2009. 001123. Trial.

7. Dolores J. Kennedy Vs. Ajex Magnethermic Corp, et al. Court of Common Pleas Cuyahoga County, Ohio. November 5, 2009. 595757. Deposition.

8. Clemmy L. Womack Vs. A.O. Smith Corporation et al. Court of Common Pleas Cuyahoga County, Ohio. November 5, 2009. 04-523048. Deposition.

9. Jody Lynn Scanlon Vs. Life Insurance Company of North America. United States District Court, Western District of Washington at Seattle. November 13, 2009. C08-0256-JCC. Summary Judgment.

10. George Wertz, Administrator of the Estate of Micahel Dolinskas Vs. Showe Management Corporation and Jeffersonville Green Limited Partnership. Common Pleas Court, Franklin County, Ohio. January 8, 2010. 08 CVH 11428. Deposition.

11. Dalton W. and Alice Faye Holler Vs. David W. Mallow. Court of Common Pleas Bedford County, Pennsylvania. January 16, 2010. 329-2008. Deposition.

12. Kevan Colledge and Casey Colledge Vs. David Mallow, Mallow Home Improvement, LLP. Court of Common Pleas Bedford County, Pennsylvania. January 16, 2010. 707-2008. Deposition.

13. Richard and Karen Roberts on behalf of the minor children Diedre Roberts and Delaney Roberts Vs. Marletta Salzman, Karen Pihakis et al. Court of Common Pleas of Allegheny County, Orphans Court Division, Pennsylvania. March 17, 2010. 09-326. Trial.

14. Laura K. Balombini, Personal Representative of the Estate of William E. Goddard, Deceased Vs. Adience, Inc., et al. Court of Common Pleas Cuyahoga County, Ohio. April 28, 2010. 674360. Deposition.

15. Marlene Seigfried, Executrix of the Estate of William Seigfried, and Marlene Seigfried in her own right Vs. Allegheny Ludlum Corporation, et al. United States District Court for the Eastern District of Pennsylvania. April 30, 2010. MDL 875 [E.D. Pa. No. 2:09-cv-66150-ER]. Deposition.

16. Estate of Thomas Synder Vs. Adience, Inc., et al. Court of Common Pleas, Cuyahoga County, Ohio. May 28, 2010. 08-664830. Deposition.

17. Estate of Ross E. Hockemeyer Vs. Aqua Chem Inc., et al. Court of Common Pleas, Cuyahoga County, Ohio. May 28, 2010. 08-673791. Deposition.

18. Johana Azenas, Personal Representative of the Estate of Brianna Azenas Castillo Vs. Inova Healthcare Services d/b/a Inova Fairfax Hospital et al. Circuit Court for Fairfax County, Virginia. June 28, 2010. 2008-12969. Deposition.

19. Joann Reisinger, et al Vs. Dwight C. Holzhauser et al. Court of Common Pleas, Cuyahoga County, Ohio. August 9, 2010. 595346. Deposition.

20. Teresa Carretta, Individually and as Special Administratrix of the Estate of Alfred Carretta Vs. May Trucking Company. United States District Court, District of Southern Illinois. August 11, 2010. 09-158-MJR. Deposition.

21. Marlene Seigfried, Individually and as Executrix of the Estate of William Seigfried Vs. Allegheny Ludlum Corporation, et al. United States District Court for the Eastern District of Pennsylvania. September 13, 2010. 2:09-cv-66150-ER. Deposition.

22. Florence King, Executrix of the Estate of John R. King, Deceased Vs. Crane Co.'s. Court of Common Pleas of Cuyahoga County, Ohio. September 13, 2010. CV-08-664120. Deposition.

23. David Earley, Timothy Wells and Tiffani Talbert, Administratrix of the Estate of Gerald Talbert Vs. Structural Group, Inc., Pullman Power, LLC, Ohio Power Company, American Electric Power Company, Inc., Fiberglass Structural Engineering, Inc., Ershings, Inc., and John Does 1-5. Circuit Court of Marshall County, West Virginia. October 12, 2010. 06-C-153M. Deposition.

24. Shelly Bryant, individually and as administratrix of the Estate of Shelton Flowers, Deceased Vs. Loews Montgomery Cinemas, Inc,; Loews Cineplex Entertainment Corporation; AMC Entertainment Inc.; Marquee Holdings Inc.; LCE Holdings, Inc. Court of Common Pleas of Allegheny County, Pennsylvania. November 2, 2010. GD 07-023755. Deposition.

25. Maria Soledad Miramontes, et al, as administratrix of the Estate of Cresencio Huizar Vs. Hartford Insurance. Underinsured Motorist Arbitration, Arbitrator: Patrick Little, Esq., California. November 29, 2010. YYK AU 54912. Deposition.

26. Joseph and Toni Pinasco, individually and Estate of Joseph Pinasco, Jr. Vs. State of California, California Highway Patrol, M. Walling, S. Coffman and Does 1 thru 50, inclusive. United States District Court, Eastern District of California. December 13, 2010. 09CV-777 MCE KJM. Deposition.

27. Maria Soledad Miramontes, et al, as administratrix of the Estate of Cresencio Huizar. Vs. Hartford Insurance. Underinsured Motorist Arbitration, Arbitrator: Patrick Little, Esq., California. December 14, 2010. YYK AU 54912. Arbitration Testimony.

28. Tommy J. Robinson, et al Vs. Borg-Warner Corporation, et al. Court of Common Pleas, Cuyahoga County, Ohio. January 4, 2011. 698837. Deposition.

29. Andrew Silverstein, Leonard A. Silverstein and Ellen Frauenthal Vs. Simpsonwood United Methodist Conference and Retreat Center, Inc.; Aramark Corporation, and Aramark Management Services Limited Partnership. State Court of Gwinnett County, State of Georgia. Civil Action File No.: 08C-04113-3. May 6, 2011. Deposition.

30. Dallas Edens vs. Joseph Christopher Wehman, MD, University of Miami School of Medicine and Public Health Trust of Miami-Dade County, Florida, Jackson Memorial Hospital/Jackson Health System. In the Circuit Court of the 11th Judicial Circuit in and for Dade County, Florida. Civil Division. Case No. 09-65401. September 2, 2011. Deposition.

31. Rebecca Alejandres et al vs. County of San Joaquin et al, Jin-Mei Woan, MD, Alan Uyeno, MD and Sutter Tracy Community Hospital et al. Superior Court of California, County of San Joaquin, Unlimited Jurisdiction. Consolidated Case Number: 39-2008-00195896-CU-PO-STK. November 4, 2011.

32. Joseph and Toni Pinasco, individually, et al. vs. State of California, et al. United States District Court for the Eastern District of California. Trial. January 11, 2012. Civil Action No. 2:09-cv-00777 KJM CKD.

33. Duane Barkley et al vs. Regional Medical Center of San Jose et al. Superior Court of The State of California, County of Santa Clara. Deposition. February 13, 2012. Case No. 110 CV 179398.

34. Jacob Hussain Saheb, Individually and Administrator for the Estate of Sheik Reza Saheb, Deceased, Plaintiff vs. Michael Glynn Fulton, Danhil Containers II, Ltd.; Danhill Containers Management, LC, Defendants. 237th District Court of Lubbock County, Texas. Case No. 2010-553,317. Deposition. March 24, 2012.

35. Duane Barkley, Kevin Jones II, Kanisha Jones, a minor, Tanisha Jones, a minor. Vs. Regional Medical Center of San Jose, James Hinsdale, MD, Conway Lien, MD, Christopher Traver, MD, David Yeh, MD and Does 1 to 50. Superior Court of the State of California, County of Santa Clara, California. Case No.: 110 CV 179398. Deposition. April 5, 2012.

36. Asima Gul, an individual, and as a successor in interest, and as guardian ad litem for Aaminah Asif Ajmal vs. Garda Security Inc.; Garda CL West, Inc.; Garda World Security Corporation; Jose De Jesus Zinga; and Does 1 through 50, inclusive. Superior Court of the State of California, County of San Joaquin, California. Case No.: 39-2010-00234481-CU-PO-STK. Deposition. June 25, 2012.

37. Sandra Jacobs, individually and as personal representative of the Estate of Richard Owens vs. Harold G. Morse, M.D.; Hospital Medicine Consultants of Anerson, LLC and AnMed Health. In the Court of Common Pleas, State of South Carolina, County of Anderson. C. A. No. 2010-CP-04-530; C.A. No. 2010-CP-04-531. Deposition. January 4, 2013.

38. Glenn Shiner and Beth Shiner, His Wife, Appellants vs. Ralph W. Ralston, Jr., Executor of the Estate of Ralph W. Ralston, Sr., Deceased, Genuine Parts Company, and Suntrust Leasing Corporation. In the Superior Court of Pennsylvania. No. 1791 MDA 2011. Appeal from the Order entered September 28, 2011, in the Court of Common Pleas of Centre County, Civil Division, at No: 09-2216. Before: Bowes, Ott, and Strassburger. Filed February 22, 2013. Summary Judgement

39. Mandy Eisenbeis, Patricia Towle, Madisun Eisengeis, by and through her Guardian ad Litem, Mandy Eisenbeis vs. California Transplant Donor Network, County of San Joaquin, Lodi Funeral Home Inc. and Does 1 to 100. Superior Court of California, County of San Joaquin, California. Case No. 39-2012-00277909-cu-po-stk. Deposition, March 27, 2013.

40. Sunbridge Stockton Rehabilitation Center vs. State of California. Superior Court of California, County of San Joaquin, California. Case No. 39-2011-00270702-CU-JR-STK. Deposition, April 30, 2013.

41. Yolo County DESS in Re: Stone. Yolo County Superior Court. The People of the State of California, Yolo County, California. Case No. JV 12-441, 12-443. Court Room Hearing and Testimony. May 1, 2013.

42. Asima Gul et al vs. Garda Security, Inc. et al. San Joaquin Superior Court, Unlimited Civil Jurisdiction, California. Case No. 39-2010-00234481-CU-STK. Trial. July 18, 2013.

43. Mohammed Al-Qarawi vs Dominican University et al. Superior Court of California, County of San Francisco, California. Case No. CGC-11-510757. Deposition. August 7, 2013.

44. Daniel Cook, Jr. vs. CSX Transportation, Inc. Jefferson Circuit Court, Division 7, Commonwealth of Kentucky. Case No. 09-CI-012026. Deposition. January 27, 2014.

45. Melissa Humphreys et al vs. State of California. San Joaquin County Superior Court, California. Case No. 39-2009-00223770 CU PO STK. Deposition. February 7, 2014.

46. James G. Brian and Karen A. Brain, his wife vs. Association of Independent Oil Distributors, E.I. Du Pont De Nemours Corporation, The Lincoln Electric Company, Martin-Senour Paints, Genuine Auto Parts Company, Safety-Kleen Corporation, The Sherwin Williams Company, Zep, Inc, L Ronald Valletti and Joan Valletti d/b/a National Autobody Supply. The Court of Common Pleas of Westmoreland County, Pennsylvania. Case No. 3413 of 2011. Deposition. March 7, April 10, May 13, June 24, June 25, 2014

47. Shirley Oliver and Julian Oliver vs. Progressive Mountain Insurance Company. In the State Court of Fulton County, State of Georgia. File No. 11EV013248B. Deposition. May 7, 2014.

48. James and Jean Rushing and their marital community vs. Surgical Associates, PLLC and Gastroenterology Associates, PLLC. Superior Court of the State of Washington, County of Thurston, Washington. Deposition. November 25, 2014. 12-2-01791-1.

49. James and Jean Rushing and their marital community vs. Surgical Associates, PLLC and Gastroenterology Associates, PLLC. Superior Court of the State of Washington, County of Thurston, Washington. Jury Trial. January 15, 2015. 12-2-01791-1.

50. Oscar Rodriguez, Deceased vs. Savemart Supermarkets, permissibly self-insured, administered by Pegasus Risk Management. The Division of Workers Compensation of the State of California. Deposition. January 29, 2015. ADJ9510659.

51. Estate of Lonnie Lamont Ashlock, Ashlock Family 2013 Trust, Gabriel Ashlock vs Stacey Carlson. Superior Court of the State of California, County of Stanislaus, California. Jury Trial. February 11, 2015. 445230 [consolidated 445304 and 445360].

52. Paul H. Musciantonio, Esq. [Estate of Tanya Wilson, Estate of LaTonya Brown] vs US Securities Associates. In the Court of Common Pleas, Commonwealth of Pennsylvania, County of Philadelphia, No. 00653. Jury Trial. February 20, 2015. Civil Action No.: 111200653.

53. Joan Shelley, Michelle Loftis, Sandra Hoyopatubbi vs. County of San Joaquin; Sheriff Steve Moore, in his Official Capacity as Sheriff of San Joaquin County and Steve Moore, Individually. In the United States District Court, Eastern District of California. Deposition. August 10, 2015. Case No. 2:13-CV-00266-MCE-DAD.

54. Martin Watson, surviving widow vs. Life Insurance Company of North America. In the United States District Court, Western District of Washington, At Seattle. Deposition. January 5, 2016. Case No. 2:15-cv-00271-MJP.

55. Fatimah K Phoenix, Individually, and Jesse Calloway and Fatimah K. Phoenix, as Co-administrators of the Estate of Vidal C. Calloway, Deceased, Plaintiffs v. Wal-Mart Stores, Inc., Wal-Mart Stores East, LP (Delaware), U.S. Security Associates, Michael L. Burton, Jaiviere N. Pruitt, and Phille Roberts, Defendants. In the State Court of Dekalb County, State of Georgia. Deposition, February 11, 2016. Civil Action File No. 13A48475-5.

56. Megan Lewis-Whiteman, Individually and in her own rights as Executrix of the Estate of Rodney L. Whiteman, Deceased v. Continental Motors, Inc., et al v. United States of America, and Elizabeth

C. Snider, Individually and as Executrix of the Estate of Daniel Snider, and Lee W. Snider, a minor, by his mother, Elizabeth C. Snider, v. Sterling Airways, Inc., et al., v. United States of America. In the United States District Court for the Eastern District of Pennsylvania. Deposition, February 27, 2016. Civil Action No. 2:13-cv-02950-JCJ; 2:13-cv-02949-JCJ.

57. Nelson Torres [Deceased] vs. Alternative Service Concepts, LLC. State of California, Department of Industrial Relations, Division of Workers' Compensation. Workers' Compensation Appeals Board. Case No. ADJ9586179. Deposition, March 4, 2016.

58. Elizabeth C. Snider, Individually and as Administratrix of the Estate of Daniel A. Snider, and Lee W. Snider, a minor, by his mother, Elizabeth C. Snider vs. Sterling Airways, Inc., et al. Unites States District Court for the Eastern District of Pennsylvania. Case No. 2:13-CV-02949. Jury Trial, January 31, 2017.

59. Jeremiah J. Cross, deceased, by and through his personal representative, Valerie Steel, Plaintiff vs. XPO Express, Inc., et al., Defendants. United States District Court, District of South Carolina, Florence Division. Civil Action No: 4:15-02480 BHH, -2481, 2773, 1253, 1254. Deposition, May 22, 2017, Sacramento, California.

60. Dr. Alan Sampson, MD and Kathy Sampson on behalf of the Estate of Andrew Sampson, plaintiffs vs. Ukiah Valley Medical Center; Debbie L. Marks, MD; Pacific Redwood Medical Group; Calstar; & The Department of California Highway Patrol; and Does 1 through 10. United States District Court, Northern District of California, Civil Action NO.: 3:15-cv-00160-WHO. Deposition, June 27, 2017, San Francisco, California.

61. Nicole Albaum, an individual vs. Ravinderpal Singh, an individual; Surinderpal Singh, an individual, and doing business as SBT Trucking; SBT Trucking, a California Corporation, Assured Aggregates Company, Inc., a California Corporation; Gagliasso Trucking, Inc. a California Corporation; Don Chapin Company, Inc. and Does 1-20, inclusive. In the Superior Court of the State of California in and for the County of Santa Clara. Case No. 114CV268097. Deposition, July 6, 2017, Sacramento, California.

62. Breanna Cooke, individually and as Co-Successor-In-Interest for Decedent James Cooke, et al, vs. Jeremy Edens, in his individual and official capacity as Police Officer of the City of Stockton, et al. United States District Court for the Eastern District of California. Case No.: 2:14-CV-00908-KJM-KJN. Deposition, July 14, 2017, Stockton, California.

63. Remy Giannini and Darleen Giannini vs. Hank Siefel and Does 1 through 25, Inclusive. Superior Court of California, County of Placer. Case No. SCV0034577. Deposition, August 18, 2017, Sacramento, California.

64. Estate of Johnathan Rose et al vs. County of Sacramento, et al. United States District Court, Eastern District of California. Case No. 2:13-CV-01339-TLN-EFB. Jury Trial, September 20 and 22, 2017, Sacramento, California.