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RE : KJP, et. al. v County of San Diego, et. al.
Case No.: 3:15-cv-02692-H-MDD

Introduction

I am a board-certified emergency department physician with substantial experience in emergency medicine as well as Emergency Medical Services (EMS). My qualifications are delineated at the end of my report.

I have been retained as an expert to review relevant materials and provide expert opinion on whether the use of the TASER Electronic Control Device (ECD) by the San Diego Sherriff's Deputies who arrested Mr. Lucky Phounsy or if any actions or inactions by the Lakeside and Santee EMS personnel who transported Mr. Lucky Phounsy on April 13, 2015 caused or contributed to his death. After careful review, it is my opinion to a reasonable degree of medical probability that

neither the use of the TASER ECD by the deputies nor any actions or inactions of the EMS personnel caused or contributed to the death of Mr. Phounsy. He died of a cardiac arrest due to severe hyperkalemia resulting from acute kidney failure related to drug use and associated with acute drug induced agitation and underlying cardiac disease. These opinions and related opinions are set forth in the expert report.

Materials Reviewed

I have reviewed extensive materials pertaining to the above referenced case. This includes, but is not limited to:

Case-Specific Materials.

1. Complaint
2. Expert Witness Disclosures by Plaintiffs, City of Santee, and Lakeside Fire Protection District
3. San Diego County Sheriff's Crime/Incident Report # 15118678 for the incident of April 13, 2015, with Lucky Phounsy.
4. Santee Fire and Lakeside FPD EMS Reports for the incident of April 13, 2015, with Lucky Phounsy.
5. Grossmont Hospital Medical Records
6. Medical Records from Dr. Jeffrey Dysart
7. Scene photographs and of officers' injuries
8. County of San Diego Medical Examiner's Investigative Report, Autopsy Report, and Toxicology Report for Case No. 15-00926 regarding Lucky Phounsy.
9. Deposition of David Csik
10. Deposition of Aaron Hackett
11. Deposition of Adam Daniels
12. Deposition of Aaron Do
13. Deposition of Aaron Bagley
14. Deposition of Daniel Nenow
15. Deposition of Marc Poynter
16. Deposition of Dean Allen

17. Deposition of Jenny Martinson
18. Deposition of Tamani Pugh
19. Deposition of Aaron Brooke
20. Deposition of Billy Tennison III
21. Deposition of Sandra Carbajal
22. Deposition of Richard Fisher
23. Deposition of Janae Krull
24. Deposition of Marcos Collins
25. Deposition of Michael Lee
26. Deposition of Steven Charles Chapman, M.D.

Medical and Scientific Literature

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Overview of Opinions

(all opinions within this report are to a reasonable degree of medical or scientific probability)

An overview of my opinions is as follows with more description of each below:

- 1. The care provided to Mr. Phounsy by the prehospital EMS providers was appropriate and consistent with the applicable standard of care for prehospital providers including both paramedics and EMTs.**
- 2. The paramedics treating Mr. Phounsy with two doses of midazolam was appropriate and did not breach standard of care and did not cause or contribute to Mr. Phounsy going into cardiac arrest.**
- 3. The paramedics not using supplemental oxygen, not starting an IV and not using the cardiac monitor in the back of the ambulance prior to the cardiac arrest of Mr. Phounsy was reasonable, did not breach standard of care and did not cause or contribute to Mr. Phounsy going into cardiac arrest.**
- 4. The use of the spit sock on Mr. Phounsy did not cause or contribute to his cardiac arrest or death.**
- 5. The use of police maximal restraints, including the hogtie restraint, and weight force on Mr. Phounsy in the back of the ambulance did not cause or contribute to his cardiac arrest or death.**

- 6. The significant hyperkalemia (elevated potassium levels) that Mr. Phounsy developed due to acute renal failure, in combination with his underlying cardiac disease, drug use and agitation was the probable cause of his sudden cardiac arrest that ultimately resulted in his death.**
- 7. The use of the TASER Electronic Control Device (ECD) on Mr. Phounsy did not cause or contribute to his cardiac arrest or death.**

Analysis

After reviewing the above listed materials, it appears that on April 13, 2015, at around 2200, 911 was called in order to gain assistance for Mr. Lucky Phounsy who was acting paranoid and thinking somebody was trying to kill him. Mr. Phounsy was 32 years old, 5'7" and weighed 185 lbs at the time of autopsy. Family reported that Mr. Phounsy had gone to Coachella and tried different illicit drugs while there, which may have included ecstasy, LSD, whippets, and cocaine. Sheriff's Deputy's arrived and found Mr. Phounsy acting very paranoid. When they attempted to assess him for weapons, an altercation ensued. Santee EMS had been summoned and were awaiting until the scene was clear to come in and evaluate.

Additional deputies were called to assist and gain control of Mr. Phounsy. A TASER electronic control device was used on Mr. Phounsy in both probe and drive stun mode. Deputies were injured during the restraining process, but ultimately Mr. Phounsy was able to be handcuffed, and due to his degree of resistance and combativeness, his legs were hobbled and then clipped to his handcuffs in a hogtie position.

After the Santee EMS personnel were cleared to enter the scene, an additional EMS unit was dispatched from Lakeside to assist with multiple patients. Mr. Phounsy was evaluated by paramedic Hackett and treated with 5 mg of midazolam intramuscularly to treat to his combativeness. Lakeside paramedic Poynter arrived on scene and also assisted in taking care of Mr. Phounsy. Mr. Phounsy was still extremely combative and struggling, and due to this extreme

nature, the paramedics opted to give a second 5 mg of midazolam intramuscularly. Mr. Phounsy was then placed onto a paramedic gurney on his left side, and taken to the ambulance for transport.

Due to his degree of combativeness, EKG probes were determined to not be placed as they would be either dislodged, or not offering accurate readings due to motion artifacts. Cardiovascular status was monitored by using capillary refill and assessments of radial pulse as well as physical evaluation of the patient. An oxygen saturation probe was attempted to be placed at least two times, but again due to Mr. Phounsy's combativeness it kept falling off and would not give an accurate read. Similarly, the blood pressure cuff would not give a reading due to the degree of agitation and struggle of Mr. Phounsy. Evaluation of his ventilatory status was maintained clinically, based on breathing pattern, rate and depth. A spit mask was applied in the ambulance on Mr. Phounsy to protect the personnel from exposure to spitting.

During the transport as the ambulance was approaching the hospital, there was a sudden change in status of Mr. Phounsy. He stopped resisting and struggling, and the deputy that was maintaining control of Mr. Phounsy's head noted that he was doing some grinding with his teeth. The paramedics reassessed at this time and noted that he was not breathing nor did he have a pulse. CPR was initiated and Mr. Phounsy was taken into the emergency room for further resuscitation.

Mr. Phounsy had a return of spontaneous circulation in the emergency department after using advanced cardiac medications. During the course of the emergency department evaluation, a serum potassium level was noted to be elevated at 6.6. Mr. Phounsy was treated with medications to emergently lower this very high level. He was stabilized, but in critical condition and was admitted to the hospital. He was found to be in renal failure and ultimately ended up dying on April 21, 2015.

The medical examiner performed an autopsy and reported the cause of death to be anoxic encephalopathy due to cardiopulmonary arrest with resuscitation following a physical altercation

and restraint, due to a stimulant drug-related psychotic state along with cardiac atherosclerosis as a contributing factor.

Given this history, there are a number of issues that need to be addressed in more detail below. All opinions given are to a reasonable, or higher, degree of medical probability based on the information currently available.

Detailed discussion and basis of opinions

- 1. The care provided to Mr. Phounsy by the prehospital EMS providers was appropriate and consistent with the applicable standard of care for prehospital providers including both paramedics and EMTs.***

In reviewing the care provided to Mr. Phounsy by the paramedics, I did not see any deviations from standard of care. He received an assessment, evaluation and treatment. He was repeatedly reassessed and monitored. Protocols were followed within reason with the paramedics utilizing critical thinking which was reasonable based on the presentation and circumstances involved in this case.

- 2. The paramedics treating Mr. Phounsy with two doses of midazolam was appropriate and did not breach standard of care and did not cause or contribute to Mr. Phounsy going into cardiac arrest.***

Mr. Phounsy was suffering from an acute behavioral emergency, reported to the paramedics from the family at the time of the event to be associated with illicit drug usage. He was exhibiting signs and symptoms consistent with a stimulant induced sympathetic crisis. The paramedics utilized midazolam intramuscularly, which is part of their treatment protocols for both psychiatric/behavioral emergencies as well as for **excited** delirium. If the 5-mg dose of midazolam

does not improve symptoms, a second dose of midazolam 5 mg is recommended. This is what the paramedics did to treat Mr. Phounsy. This utilizing of two doses of midazolam is what Mr. Phounsy needed to try to help calm him down and reduce his level of agitation. This dosage of midazolam is standard practice and in a severely agitated individual such as Mr. Phounsy, would not cause any respiratory issues or lead to ventilatory failure or cardiac arrest. The use of this medication by the paramedics was appropriate, met standard of care, and did not cause or contribute to Mr. Phounsy going into cardiac arrest.

- 3. The paramedics not using supplemental oxygen, not starting an IV and not using the cardiac monitor in the back of the ambulance prior to the cardiac arrest of Mr. Phounsy was reasonable, did not breach standard of care and did not cause or contribute to Mr. Phounsy going into cardiac arrest.***

There was no clinical indication for the paramedics to utilize oxygen on Mr. Phounsy in the back of the ambulance prior to him going into cardiac arrest. There was no evidence that he was in respiratory distress, or showing symptoms of hypoxia. There was no cyanosis and there was no slowing of his heart rate. Though the excited delirium protocol notes to start high flow O2 as soon as able, this is open to the judgement of the paramedics. If there is no evidence of respiratory distress or hypoxia and the risks of trying to place the mask would be outweighing the unlikely benefits, the paramedics exercised sound judgement and were appropriate in not trying to place the oxygen mask. Under the same excited delirium protocol is written to ventilate the patient as soon as able. As Mr. Phounsy was spontaneously breathing and moving air in and out, there was no indication to ventilate Mr. Phounsy. Once again, the paramedics exercised appropriate judgment in weighing the risks of trying to ventilate Mr. Phounsy which would clearly outweigh any unlikely benefits, not to mention putting him at increased risk for inducing vomiting and aspiration into his lungs.

Patients who are breathing faster than normal due to drug intoxication or exertion or struggle typically have levels of oxygen in the blood that are above normal, and the addition of supplemental oxygen or ventilating would not have any clinical impact physiologically. Supplemental oxygen does not neutralize or have any clinical effects to improve metabolic acidosis. Not using supplemental oxygen did not lead to or cause the cardiac arrest of Mr. Phounsy.

The paramedics did not place an IV into Mr. Phounsy because he was being so aggressive and struggling so much that trying to place an IV was a hazard to both Mr. Phounsy and the paramedics. The protocol notes to give an IV bolus of fluid as soon as able, but with Mr. Phounsy struggling and moving around, the paramedics were unable to safely start an IV. This decision to hold off on starting the IV until Mr. Phounsy was calmer was sound and appropriate and did not breach standard of care. Even if the paramedics had started an IV, the fluid that would have gotten into Mr. Phounsy's system would not have prevented the subsequent cardiac arrest.

The paramedics did not place the cardiac monitor on Mr. Phounsy while he was aggressively struggling and resisting because they knew that all of the movement would lead to motion artifact on the monitor and would not be useful or accurate data. Waiting until Mr. Phounsy was calmer before attempting to place the leads was reasonable and did not breach the standard of care.

The paramedics decisions to not initiate the use of high flow oxygen, starting an IV, not ventilating and not using a cardiac monitor due to the degree of agitation and movement was sound reasoning, appropriate, meeting standard of care, and did not cause or contribute to Mr. Phounsy going into cardiac arrest.

4. *The use of the spit sock on Mr. Phounsy did not cause or contribute to his cardiac arrest or death.*

Mr. Phounsy had a spit mask placed on him for the personal protection of the deputy working with him in the back of the ambulance. This is reasonable and prudent given his agitation

and lack of compliance coupled with the close proximity of the deputy near the face of Mr. Phounsy and the blood noted on Mr. Phounsy's face. The mask is made of a thin mesh material that covers the entire head. This material allows for air to pass through and does not impede one's ability to breathe. Even if pulled tightly over the nose and mouth, air passes through and allows for respirations. The material of the spit mask is much more permeable compared with masks covering the noses and mouths of physicians and nurses in the operating room or construction workers who breath for hours at a time without problems. There was no clinical evidence that Mr. Phounsy was unable to breathe through the spit mask, as demonstrated by no reported labored breathing, no cyanosis, coughing or gagging. He was active and moving as well until he became suddenly unresponsive, which is more consistent with a sudden cardiac arrest, not an asphyxiation. And to date, there are no reports in the medical literature that identify spit masks as a cause of asphyxiation. The use of the spit mask was certainly within the standard of care and was not a causal factor in Mr. Phounsy's sudden cardiac arrest or death.

5. The use of police maximal restraints, including the hogtie restraint, and weight force on Mr. Phounsy in the back of the ambulance did not cause or contribute to his cardiac arrest or death.

During the period that Mr. Phounsy was being handcuffed, he was restrained in a prone position with a certain amount of weight placed on him initially to gain control over him. He was handcuffed and because he was still struggling vigorously, a hobble was placed around his ankles and then attached to his handcuffs to complete a hogtie position. He was attempted to be maintained on his side, but kept struggling and wiggling back and forth.

After Mr. Phounsy was evaluated and initially treated by the EMS providers, there was discussion and consideration to change the police maximal restraints for the paramedic restraints. However, after observing the aggressive behavior of Mr. Phounsy and learning of the difficult struggle that the deputies had to try to get him handcuffed initially, the decision was made not to

remove the police maximal restraints and transport him with the handcuffs in place, with him lying on his side. Given the circumstances, this decision was sound and appropriate. He was not reported to complain of shortness of breath or difficulty breathing after being restrained and being tended to by the paramedics. He was reported to have shallow but effective unlabored breathing at a rate of 30 breaths/minute and a strong pulse of 120 beats/minute.

Once Mr. Phounsy was placed on the ambulance gurney, he was maintained in the hobble position on his side as best as could be maintained with all of his wiggling and struggling. He had seatbelts from the gurney placed across him to hold him in position but were reported to be loose enough to allow him to breathe and even move his position. In the back of the ambulance, Deputy Fisher, who weighed approximately 220 lbs at the time, was reportedly holding Mr. Phounsy's head and torso on the gurney to keep him from sitting up and moving. Throughout this period, the paramedics assessed his breathing and noted it to be appropriate. There was no cyanosis, and no signs of any respiratory distress. His heart rate was not reported to slow down, and Mr. Phounsy continued to struggle as he had been all the while.

The amount of weight being placed on the torso by the deputy is not enough to limit ventilations or cause asphyxiation by compression. Research using up to 220 lbs. of weight on a subject's back has not shown to cause physiologic changes that would imply asphyxiation is even possible with that amount of weight. The cardiac arrest of Mr. Phounsy was caused by his heart stopping, not due to asphyxia or other ventilatory issues.

The decision to transport Mr. Phounsy using the police maximal restraints with him on his side was appropriate and met standard of care. And since there were no physiologically significant amounts of weight being placed on him by Deputy Fisher during the transport, and given that the cardiac arrest was sudden, there is no evidence that position, restraint or body weight caused or contributed to Mr. Phounsy's sudden cardiac arrest and death.

- 6. The significant hyperkalemia (elevated potassium levels) that Mr. Phounsy developed due to acute renal failure, in combination with his underlying cardiac disease, drug use and agitation was the probable cause of his sudden cardiac arrest that ultimately resulted in his death.***

Mr. Phounsy was found to have a potassium level of 6.6 at the time of his emergency department evaluation at 2320. The cause of this elevation is most likely due to acute kidney failure that often accompanies drug use like MDMA, especially after several days of repeated use as was reported in the case of Mr. Phounsy. This elevation was not caused by or worsened by the interaction with the deputies or EMS providers. Mr. Phounsy had an elevated creatinine of 2.0. This is consistent with renal failure and predated the arrival of the deputies and paramedics.

CPK is an enzyme released when muscle cells break down. When muscles are overworked or damaged, they release the enzyme into the blood stream that can be measured on laboratory evaluation. CPK is very non-specific in that many different activities can cause it to rise. One of the most common is recreational muscle activity. Athletes and non-athletes alike after even a moderate work out can see measurable elevations in CPK. In the emergency department, we see elevations in patients with seizures, who are on statin medications for cholesterol, or who have been involved in altercations or done repetitive muscle contraction activities. A mild rise to 841 like seen in Mr. Phounsy is typically not even a concern as is considered clinically insignificant.

When we see elevations into the tens of thousands range, there is an increased risk for the complications of rhabdomyolysis including renal failure. Renal failure can occur in patients with severely elevated CPK levels. CPK damages the kidneys and causes the kidneys not to function correctly. When this occurs, creatinine levels start to rise and this is diagnostic of renal failure. If this goes on for a long enough period of time, potassium levels will elevate.

In the case of Mr. Phounsy, the CPK levels were not significantly elevated at the time of his arrival to the hospital. However, his creatinine was already elevated as was his potassium level, but this was not due to rhabdomyolysis from elevated CPK, because his CPK levels were not high

enough to cause this. The kidney dysfunction pre-dated the arrival of the deputies and EMS providers. If exertion and struggling and fighting were to cause kidney failure, first the CPK levels have to be elevated, and that takes many hours to occur. The timeframe from the deputies' and paramedics' interactions with Mr. Phounsy and his lab work done about an hour later is inconsistent with struggle or exertion induced rhabdomyolysis or renal failure.

The potassium level of Mr. Phounsy at the hospital was 6.6 which was noted after being given bicarbonate as part of his cardiac arrest resuscitation. Bicarbonate is one of the urgent therapies used to treat and lower hyperkalemia. This means that his initial level of potassium was even higher than 6.6 prior to the bicarbonate at the time of his cardiac arrest. By way of comparison, a normal potassium level is 3.5-5.0. Patients with chronic kidney failure on dialysis can get up to levels of 6.0 to 7.5 with little in the way of clinical findings, but other patients with acute elevations in potassium will have EKG changes at these levels and are already at significant risk to go into sudden cardiac arrest. Mr. Phounsy, with a potassium of greater than 6.6 was at increased risk to go into cardiac arrest at any moment, with or without any involvement by law enforcement or EMS providers. This severe hyperkalemia in combination with his severe agitation and continuing to struggle, and from his MDMA use is the probable cause of Mr. Phounsy's sudden cardiac arrest and ultimately his death a week later.

7. The use of the TASER Electronic Control Device (ECD) on Mr. Phounsy did not cause or contribute to his cardiac arrest or death.

There are no peer-reviewed published scientific or medical literature that concludes that TASER ECDs cause cardiac dysrhythmias or cardiac arrest in humans utilized in the probe mode or drive stun mode away from the chest transcardiac axis. There is theoretical modeling that describes how a TASER ECD could possibly cause cardiac arrest over the transcardiac axis, but the circumstances are not present with Mr. Phounsy. More than 1.5 million volunteer subjects have

undergone TASER ECD activations, and none have ever been reported to develop sudden cardiac arrest or die. Just because a TASER ECD was being used in proximity to his death, does not imply causation.

The TASER X26 ECD data download from Deputy Collins's device shows six trigger pulls over two time periods. The first time-period was three trigger pulls for a total of 11 seconds of activation over 16 seconds, and the second was three trigger pulls for a total of 10 seconds of activation over 14 seconds. Both sets of activations were in probe mode into the torso. The time periods were approximately 3 minutes apart. The deputy reported that Mr. Phounsy pulled out the probes each time. The TASER X2 ECD data download from Deputy Brooke's device shows two trigger pull arcs for a total of 4 seconds of activation, a 3 second activation followed by a 1 second activation. He reported to use the TASER ECD in drive stun mode with the contact points located on the right side of Mr. Phounsy's back, under his shoulder. The TASER X2 ECD data download from Deputy Krull's device shows one trigger pull for a total of 5 seconds of activation. She reported to use the TASER ECD in probe mode with the laser location at the shoulder and thigh of Mr. Phounsy.

For an ECD to deliver a charge to the person, the electrical circuit must be completed and maintained. Thus, as a point of clarification, just because the TASER ECD downloads recorded 30 seconds of activation time from the three TASER ECDs, does not mean that the TASER ECD were indeed in contact with the subject and delivering the electrical stimulus for that amount of time. Often with moving, squirming, rolling and kicking, probes can become dislodged or wires broken. In this case, Mr. Phounsy was reported to pull out the probes as well as rolling around and at the end of the final TASER ECD activation, the wires were reported to no longer be attached. Even after the final TASER ECD activation, Mr. Phounsy was still struggling and fighting for quite some time before he went into cardiac arrest. If the TASER ECD had "electrocuted" Mr. Phounsy, his heart would have gone into a ventricular fibrillation (VF) at the time the electricity was being

delivered and he would have immediately lost consciousness at the time that the TASER ECD was firing or within 1-2 seconds after stopping. Subjects in VF cannot fight or struggle, let alone remain conscious as the blood flow to the brain ceases immediately.

This time of struggle that Mr. Phounsy had after the last TASER ECD activation support that the TASER ECD did not cause his heart to go into cardiac arrest. This conclusion is also supported in that the first rhythm reported by the defibrillator that was used to treat Mr. Phounsy after he went into cardiac arrest recorded the first rhythm as asystole, flatline. Asystole is not a rhythm caused by electricity, VF is.

For one to possibly conclude that a TASER ECD could even be considered to cause cardiac arrest, basically all the following facts would need to be present:

- 1) The device probes would need to be penetrating deep into the chest wall for the tips to be close to the heart (a close dart to heart ratio);
- 2) The subject would need to have a thin chest wall;
- 3) The subject to be standing at the time of the TASER ECD activation and leaning forward so that the heart is closer to the anterior chest wall;
- 4) The subject would need to lose consciousness immediately during the TASER ECD activation or with 1-2 seconds after; and
- 5) The first cardiac rhythm would need to be ventricular fibrillation.

All of these would be needed to even consider the TASER ECD as the cause of death, but in this case with Mr. Phounsy, these facts are not present. So again, the published scientific data as well as the objective evidence available in this case confirms that the use of the TASER ECD was non-contributory to the cardiac arrest and death of Mr. Phounsy.

Background

My background is that I am a full-time faculty member in the department of emergency medicine at the University of California, San Diego Medical Center. I am residency trained and board certified in Emergency Medicine. I work full time as a practicing clinician in the Emergency Department of a busy urban hospital and serve as the clinical operations chief for our two emergency departments with a combined annual census of approximately 70,000 visits. I currently serve as the Medical Director for Risk Management for the UC San Diego Health System. I also serve as the UCSD Medical Center's Medical Risk Management Committee Chair and Allocation Committee Co-Chair, as well as previously having served as the Chair of the Patient Care and Peer Review Committee, each of which are charged with the task of reviewing medical records and making determinations of standard of care. I am also the former Chief of Staff for the UCSD Medical Center.

I have worked for almost 20 years as a faculty emergency physician at an urban-based emergency department that is contracted to receive patients who are in custody, both as field arrests and for on-going care while incarcerated. I served as the UCSD Director of Custody Services overseeing hospital services for the San Diego County Sheriff's Department Medical Services for 16 years. I also have worked in a jail setting for over 18 years, staffing weekly sick call clinics on site at the San Diego Sheriff's jails throughout San Diego County. I have also served as the on-site medical director for the San Diego Sheriff's medical clinics for 16 years where I have trained staff physicians, participated in quality assurance, resource utilization, policy and protocol development and peer review. I have also overseen the physician staffing for seven jails in San Diego County over that time. During my career, I have evaluated thousands of patients over the last 20 years who have been under the influence of drugs, were in cardiac arrest and/or had elevated potassium levels

My Emergency Medical Services (EMS)/prehospital background and experience includes having been a flight physician with Lifeflight of San Diego and with Mercy Air, taking care of

acutely injured patients at the scene. My EMS administrative roles include having been the Base Station Medical Director for UCSD, the Medical Director for the Palomar and Southwestern Paramedic College Training Programs, and the former Medical Director for the County of San Diego Emergency Medical Services (EMS) one of the largest EMS systems in the nation. In this role, I was responsible for protocols and quality assurance of over 1000 paramedics and 4000 EMT's. I started the UCSD EMS/Disaster Medicine Fellowship Training Program and was the first Fellowship Director and currently serve as the Assistant Director of the EMS/Disaster Medicine Division in the UCSD Department of Emergency Medicine and as the Medical Director for Carlsbad Fire Department and AirLinkUSA Air Ambulance Service. I have been a paramedic base hospital physician in San Diego County for over 25 years. Other previous roles include have been the Medical Director for the San Diego County Metropolitan Medical Strike Team (MMST) and serving as EMS medical back up for many SWAT operations. I was also the Principal Investigator for San Diego's Resuscitative Outcomes Consortium (ROC) site, a National Institute of Health (NIH) funded study consortium that evaluated treatment options for out of-hospital cardiac arrest and severe traumatic injury including gunshot injuries for over a decade.

I was the lead author on work requested by the American College of Emergency Physicians (ACEP) to review the totality of the body of literature on the topic of Excited Delirium Syndrome (ExDS) and wrote up the findings of the expert consensus panel's white paper. I have published a number of papers on the topic, have been grant funded by the National Institute of Justice to study patients with ExDS and invited to write multiple text book chapters on the topic of ExDS. I have also been invited to lecture nationally and internationally on the topics of Excited Delirium Syndrome.

I am knowledgeable of peer-reviewed medical and scientific research on the physiological effects of positional restraint and positional asphyxia conducted by others. I have also performed extensive clinical research on human subjects who have been restrained in various positions and

with various amounts of weight being placed (articles included in my curriculum vitae) which includes having directly been involved with hundreds of subjects being restrained and studied, hundreds of patients restrained during my work in the emergency department and have personally been restrained with weights placed on me as well. I have been invited to lecture nationally and internationally on this subject. Given my own interests in this area, I regularly perform a complete review of the literature regarding restraints and in custody death.

I am knowledgeable of peer-reviewed medical and scientific research on TASER electronic control devices (ECDs) conducted by others. In fact, I was the lead author on work requested by the American Academy of Emergency Medicine (AAEM) to review the totality of the peer reviewed published medical literature on humans and come to conclusions regarding the necessary emergency department evaluation of patients being seen after receiving a TASER ECD activation. I have received federal grant funding and performed extensive clinical research on human subjects who have received TASER ECD applications (articles included in my curriculum vitae) which includes having been involved with over 200 TASER ECD activations and have personally received multiple applications of the device. I have written several book chapters on this topic and have lectured internationally about the physiologic effects of TASER ECDs.

As per Rule 26 formatting, Appendix A is a copy of my current Curriculum Vitae, which includes a list of all publications authored by me. Appendix B is a list of all cases in which I have testified as an expert in trial or deposition within the preceding four years. Appendix C is my fee schedule. The knowledge base that I utilize has been developed over time from my years of clinical practice and experience, reading and training as well as research. Under penalty of perjury, I hereby swear that the opinions stated above are true and correct within a reasonable degree of medical probability. I also reserve the right to review the Rule 26 Reports of other expert witnesses retained in this case by all parties, and review other materials as they become available in the case, and provide additional opinions as appropriate.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'G. Vilke', with a small flourish at the end.

Gary M. Vilke, M.D., FACEP, FAAEM
Professor of Clinical Emergency Medicine
Emergency Medicine Clinical Service Chief and Co-Medical Director
Medical Director, Risk Management, UC San Diego Health System
Director, Clinical Research for Emergency Medicine

APPENDIX A

CURRICULUM VITAE

GARY MICHAEL VILKE, M.D., FACEP, FAAEM

HOME ADDRESS:

11582 Normanton Way
San Diego, CA 92131
Phone: (619) 666-8643

OFFICE ADDRESS:

Department of Emergency Medicine
UCSD Medical Center
200 W. Arbor Drive
San Diego, CA 92103-8676
Phone: (619) 543-6210
Fax: (619) 543-3115
E-mail: gmvilke@ucsd.edu

PERSONAL: Born September 12, 1966 in Cleveland, Ohio

EDUCATION:

Academic: 1983-88	B.S. in Zoology, University of California, Berkeley Berkeley, California
Medical School: 1988-92	M.D., University of California, San Diego School of Medicine La Jolla, California
Internship: 1992-93	Department of Surgery University of California, San Diego Medical Center San Diego, California
Residency: 1993-96	Department of Emergency Medicine University of California, San Diego Medical Center San Diego, California (Chief Resident: 1995-96)
Physician Leadership Academy: 2007-09	University of California, San Diego Medical Center San Diego, California

LICENSURE: California Medical License Number G-78057

BOARD CERTIFICATIONS:

National Board of Medical Examiners, 1993
American Board of Emergency Medicine, 1997, renewed 2007

APPOINTMENTS:

- 9/11 - Present Professor of Clinical Emergency Medicine and Medicine, University of California, San Diego (UCSD) School of Medicine
- 1/16 – Present Emergency Medicine Clinical Service Chief, UC San Diego Health System
- 1/16 – Present Co-Medical Director, Department of Emergency Medicine, UCSD Medical Center
- 10/15 – Present Medical Director, AirLinkUSA Air Ambulance Service
- 9/15- Present Staff Physician, El Centro Regional Medical Center Department of Emergency Medicine
- 2/14- Present Assistant Chief, Division of Emergency Medical Services (EMS)/Disaster Medicine, UCSD Medical Center, Department of Emergency Medicine
- 1/13 – Present Medical Director, Carlsbad Fire Department
- 7/12 – Present Medical Director, Risk Management, UC San Diego Health System
- 6/12 – Present Associate Director, Department of Emergency Medicine Behavioral Emergencies Research (DEMBER) Lab
- 10/09 – Present UCSD Department of Emergency Medicine Clinical Research Scholar Fellowship Director
- 4/07 – Present Medical Director of the American Heart Association Training Center at the UCSD Center for Resuscitation Science
- 2/06 - Present Chief, Division of Clinical Research, UCSD Medical Center, Department of Emergency Medicine
- 7/96 - Present Assistant Director, Department of Emergency Medicine, UCSD Medical Center
- 7/94 - Present Base Hospital Physician, University of California Medical Center

PREVIOUS EXPERIENCE/APPOINTMENTS:

7/13 – 9/15 Chief, Division of Custody Medicine, UCSD Medical Center, Department of Emergency Medicine

4/99 – 9/15 Director, Custody Services, UCSD Medical Center (Co-Director 1999-2013)

3/13 – 9/15 Medical Director, AviaMedix Air Ambulance Service

10/11- 2/14 Chief, Division of Emergency Medical Services (EMS)/Disaster Medicine, UCSD Medical Center, Department of Emergency Medicine

4/12 – 3/13 Medical Director, Aeromedevac Air Ambulance Service

7/09 – 6/12 Chief of Staff, UCSD Medical Center

7/07 - 6/09 Vice Chief of Staff UCSD Medical Center

7/04 – 6/09 EMS/Disaster Medicine Fellowship Director, Department of Emergency Medicine.

3/02 - 2/06 Medical Director, San Diego County Emergency Medical Services

3/03 - 12/05 Medical Consultant, San Diego Chapter Red Cross Disaster Health Services

6/04 - 2/05 Interim Chief, San Diego County Emergency Medical Services

1/01 - 2/04 Medical Director, Southwestern College Paramedic Training Program

7/00 - 2/04 Medical Director, Palomar College Paramedic Training Program

7/97 - 1/03 Director, Prehospital Services, UCSD Medical Center

6/97 - 1/03 Medical Director, Paramedic Base Hospital, UCSD Medical Center

7/96 - 1/03 Medical Director, Mercy Air Medical Transport Service, San Diego, California

4/99 - 3/01 Medical Co-Director, San Diego Central Jail Medical Services

1/96 - 7/96 Flight Physician, Mercy Air Medical Transport Service, San Diego, California

7/95 - 7/96 Associated Emergency Physicians Medical Group, San Diego, California

12/94 - 7/96 Kaiser Permanente Emergency Department, San Diego, California

10/94 - 7/96 Med America Health Resource Company, San Diego, California

4/94 - 7/95 Sharp-Rees-Stealy Urgent Care, San Diego, California

7/93 - 12/95 Flight Physician, Life Flight Air Medical Transport Service

PREVIOUS ACADEMIC APPOINTMENTS

7/05 – 9/11 Professor of Clinical Medicine, UCSD School of Medicine

7/01 - 6/05 Associate Professor of Clinical Medicine, UCSD School of Medicine

7/96 - 6/01

Assistant Clinical Professor of Medicine, UCSD School of Medicine

HONORS AND AWARDS:

- 1990 Random House Medical Student Award
- 1996 American College of Emergency Physicians, California Chapter Challenge Bowl Winner
- 1996 Council of Residency Directors (CORD) Resident Academic Achievement Award
- 1996 Outstanding Emergency Medicine Resident
- 1996 UCSD Emergency Department Staff Support Award
- 1996 *Journal of Emergency Medicine* Outstanding Contribution Award
- 1999 "Golden Apple" Teaching Award, UCSD Emergency Medicine Residency Graduating Class of 1999
- 2000 Faculty of the Year, UCSD Emergency Medicine Residency Graduating Class of 2000
- 2000 Best Research Poster Presentation, California Chapter of the American College of Emergency Physicians (CAL/ACEP) Scientific Assembly, Dana Point, California
- 2000 Outstanding Scientific Abstract, State of California EMS Authority Annual Emergency Medical Services for Children Conference, San Diego, California, November 2000
- 2001 Best Oral Presentation, CAL/ACEP Scientific Assembly, Santa Clara, California
- 2004 Academy of Clinician Scholars, University of California San Diego
- 2004 Top Doctor in San Diego County, San Diego Magazine
- 2004 Top Peer Reviewer, *Annals of Emergency Medicine*
- 2005 Top Doctor in San Diego County, San Diego Magazine
- 2005 Clinical Investigation Institute, University of California San Diego
- 2006 Top Doctor in San Diego County, San Diego Magazine
- 2007 Finalist San Diego Business Journal Health Care Champion Award
- 2007 Top Doctor in San Diego County, San Diego Magazine
- 2007 Top Peer Reviewer, *Annals of Emergency Medicine*
- 2008 Top Doctor in San Diego County, San Diego Magazine
- 2008 UCSD Undergraduate Campus Outstanding Faculty Mentor of the Year
- 2009 Clinical and Translational Research Institute, Charter member
- 2009 Top Doctor in San Diego County, San Diego Magazine
- 2010 Top Doctor in San Diego County, San Diego Magazine
- 2011 Top Doctor in San Diego County, San Diego Magazine

HONORS AND AWARDS, continued:

- 2012 Top Doctor in San Diego County, San Diego Magazine
- 2013 Top Doctor in San Diego County, San Diego Magazine
- 2014 Top Doctor in San Diego County, San Diego Magazine
- 2015 "25 Emergency Medicine & EMS Professors You Should Know" From Medical Technology Schools at: <http://www.medicaltechnologyschools.com/emt/emergency-medicine-ems-professors-to-know>

CERTIFICATIONS:

- Basic Cardiac Life Support Instructor
- Pediatric Advanced Life Support Provider
- Advanced Cardiac Life Support Instructor
- Hazardous Material Training, Level I
- Advanced HAZMAT Life Support Provider

PROFESSIONAL SOCIETY MEMBERSHIPS:

- American Medical Association, 1988-97
- California Alumni Association, 1988
- American College of Emergency Physicians, 1991-2000
- Fellow, American College of Emergency Physicians, 2000
- California Chapter of the American College of Emergency Physicians, 1991
- Society for Academic Emergency Medicine, 1995
- National Association of EMS Physicians, 1998
- Fellow, American Academy of Emergency Medicine, 2000
- California Chapter of the American Academy of Emergency Medicine, 2000
- American Association of University Professors, 2002
- California Conference of the American Association of University Professors, 2002
- San Diego Faculty Association, 2002
- San Diego County Medical Society, 2003
- California Medical Association, 2003
- American Association of Emergency Psychiatry, 2014

PATENTS:

WO 2010/011976 A2: Medication Delivery Devices Having Penetrable Sterility Barriers and Alignment Features (January 28, 2010)

WO 2010/011976 A2: Medication Delivery Devices Having Penetrable Sterility Barriers and Alignment Features (January 28, 2010)

US 2010/011966 A2: Medication Delivery System (January 28, 2010)

US 2010/0022987 A1: Medication Delivery System (January 28, 2010)

US 61476836 Medication Delivery Apparatus (April 19, 2011)

CURRENT ACTIVITIES:

Objective Structured Clinical Examiner, Introduction to Clinical Medicine, UCSD School of Medicine, 1997

UCSD Alumni Preceptor, UCSD School of Medicine, 1997

Physician Member, San Diego County Metropolitan Medical Strike Team, 1998

Quality Assurance Reviewer, Department of Emergency Medicine, UCSD Medical Center, 1999

Evaluator, UCSD Physician Assessment and Clinical Evaluation (PACE) Program, 2000

Tactical EMS Care Provider for San Diego Sheriff's Special Enforcement Detail (SED), 2007

San Diego State Pre-Med Preceptor, SDSU, 2008

Phi Delta Epsilon Faculty Mentor, UCSD, 2008

LIFESHARING, A Donate Life Organization Advisory Board, 2010

Journals

Editor-in-Chief, *Advances in Legal Medicine*, Longdom Publishing, 2014-2015.

Senior Associate Editor/Editorial Board, *Journal of Emergency Medicine*, Elsevier Science, Inc., 2013 (Associate Editor since 2007, Editorial board since 2000; reviewer since 1994)

Editorial Board, *Prehospital Emergency Care*, Taylor & Francis Group, 2006 (Reviewer since 2004)

Editorial Board, *Journal of Forensic and Legal Medicine*, Elsevier Science, Inc. 2012 (Reviewer since 2011)

Editorial Board, *Emergency Medicine and Healthcare*, Herbert Publications, 2013

Senior Reviewer, *Annals of Emergency Medicine*, Mosby, 2007 (Reviewer since 1998)

Reviewer, *European Journal of Epidemiology*, Kluwer Academic Publishers, 1996-97

Reviewer, *Western Journal of Emergency Medicine*, 2001

Reviewer, *American Journal of Emergency Medicine*, Elsevier Science, Inc., 2005

Reviewer, *Emergency Medicine Journal*, BMA House, 2006

Reviewer, *Forensic Science International*, 2007

Reviewer, *California Journal of Emergency Medicine*, 2007

Reviewer, *Journal of the American Medical Association (JAMA)*, 2009

Reviewer, *BioMedical Engineering OnLine*, 2009

Reviewer, *Bioelectromagnetics*, 2010

Reviewer, *Forensic Science, Medicine and Pathology*, 2010

Reviewer, *Psychology Research and Behavior Management*, 2010

Reviewer, *Academic Emergency Medicine*, 2010

Reviewer, *Medicina*, 2012

Reviewer, *Injury Prevention*, 2013

Reviewer, *Therapeutics and Clinical Risk Management*, 2013

Reviewer, *Pediatrics*, 2013

Reviewer, *Journal of Forensic Toxicology and Pharmacology*, 2014

Reviewer, *Journal of Injury and Violence Research*, 2014

Reviewer, *International Journal of Molecular Sciences*, 2015

Reviewer, *Emergency Medicine International*, 2015

Content Expert

Reviewer, Practical Summaries in Acute Care, Thomson American Health Consultants, 2006

Expert Editorial Advisor, *Managing the Ankylosing Spondylitis Patient in an Emergency Setting for the Spondylitis Association of America (SAA)*. 2008

Content Expert for Cable News Network (CNN), 2009

Content Expert for ABC News, 2011

PREVIOUS ACTIVITIES:

Vice-President, California Chapter of Emergency Medicine Residents Association, 1994-95

Editor-in-Chief, California Chapter of Emergency Medicine Residents Association Newsletter, 1994-95

Co-Director, School of Medicine 225: Introduction to Emergency Medicine, UCSD School of Medicine, 1994-95

Strike Team Leader, DMAT Olympics 1996 Biological & Chemical Antiterrorist Medical Support

Director, Mercy Air Medical Transport Services Continuing Clinical Education, 1996-2003

Member, San Diego County 911 Dispatch Quality Review Board, 1997-98

Co-Director, University of California, San Diego School of Medicine, Course SOM 224I, Pediatric Advanced Life Support Course Director, 1997-2002

Editor-in-Chief, UCSD Medical Center EMS Run Review, 1997-2003

Sponsor, Palomar College Emergency Medical Education Department Paramedic Training, 1997-2003

Medical Support Physician, Super Bowl XXXII, San Diego, California, January 25, 1998

Medical Support Physician, Suzuki Rock-n-Roll Marathon, San Diego, California, June 21, 1998

Marketing Director, California Chapter of the American College of Emergency Physicians (CAL/ACEP) Scientific Assembly, 1998-99

Member, Program Committee, CAL/ACEP Scientific Assembly, 1998-99

Howard Hughes Foundation Undergraduate Preceptor, 1998, 1999

Co-editor, Pearls from PAC Newsletter, 1998-2000

Preceptor, Introduction to Clinical Medicine 201-B, UCSD School of Medicine, 1999

EMS Team Leader, San Diego County Metropolitan Medical Strike Team, 1999

Co-Chair, Program Committee, CAL/ACEP Scientific Assembly, 1999-2000 and 2000-01

Member, San Diego County Bio-Terrorism Planning Group, 1999-2003

Moderator, EMS Poster Section, Western Regional Society for Academic Emergency Medicine Conference, Portland, Oregon, April 2000

Preceptor, California State University Dominguez Hills Statewide Nursing Program, 2000

Affiliate Faculty, Southwestern College Paramedic Training Program, 2000-03

PREVIOUS ACTIVITIES, continued:

Medical Director, EPIC "Eliminate Preventable Injuries of Children" Medics, San Diego County, 2000-03

San Diego Port District AED (Automated External Defibrillator) Program RPF Panel, 2001

Peer Reviewer, *Pediatric Emergency Medicine Reports*, 2001

Reviewer, Scientific Abstract Presentations, CAL/ACEP Scientific Assembly, 2001-02

Member, Board of Directors, CAL/ACEP, 2001-03

Moderator, Western Regional SAEM Research Presentations, San Diego, California, April 2002

Clinical Coordinator, Southwestern College Emergency Medical Technician Program, 2001-03

Santa Clara County/Regional Medical Center Trauma Designation Review Committee, 2004

San Diego County Health Services Capacity Issues Task Force, 2002-06

San Diego Regional Safety Consortium Inter-facility Transfer Protocol Task Force, 2004-06

San Diego Regional Fire Prevention Emergency Preparedness Task Force, 2004-2006

San Diego County Task Force on Fire Prevention, 2004-06

President-Elect, EMS Medical Director's Association of California, 2005-06

Medical Director, San Diego County Metropolitan Medical Strike Team, 1998-2008

American College of Emergency Physicians (ACEP) Task Force on Excited Delirium Syndrome
2009-10

National Institute of Justice Task Force on Excited Delirium, 2011

Member, Disaster Medical Assistance Team (CA-4), 1994-2011

Operations Committee, San Diego County Metropolitan Medical Strike Team, 1998-2010

CURRENT UCSD COMMITTEE MEMBERSHIPS:

Research Committee, Department of Emergency Medicine, 1997
UCSD Faculty Association, 2002
Quality Improvement/Peer Review Committee, Department of Emergency Medicine, 2002
UCSD Academy of Clinician Scholars Executive Committee, 2005
UCSD Medical Staff Executive Committee, 2007
Chair, UCSD Medical Risk Management Committee, 2012
UCSD Allocation Committee, 2012
UCSD Significant Events Committee, 2012
Rady Children's Root Cause Analysis Committee, Ad hoc, 2012
UCSD/Rady Children's Joint Risk Management Committee (JRMCM), 2013
UCSD Department of Emergency Medicine Academic Affairs Committee, 2013
UCSD Patient Experience Executive Committee, 2013
UCSD Faculty Leadership Group, 2014
Patient Advocacy Reporting System (PARS) Oversight Team, 2014
Rady Children's Emergency Department Faculty Search Committee, 2015

PREVIOUS UCSD COMMITTEE MEMBERSHIPS:

President, UCSD Academy of Clinician Scholars, 2013-15
UCSD Board of Governor's Committee, 2013-15
UCSD Academic Senate Representative Assembly, Alternate, 2011-13
UCSD Sheriff Managed Care Oversight Committee
Ladder Rank Recruitment Committee, UCSD Department of Emergency Medicine, 2013
UCSD Medical Staff Bylaws Work Group, 2014
Chair, Emergency Department Staffing Committee of Process Action Team, 1994-95
Hospital Infection Control Committee, 1994-95
Emergency Medicine Housestaff Association Representative, 1994-96
Emergency Department Clinical Practices Committee, 1994-96
Emergency Department Peer Review/Quality Assurance Committee, 1995-96
Emergency Department Critical Care Room Process Action Team, 1996
Paramedic/Emergency Department Interface Task Force, 1998-99
Emergency Department Staffing Committee, Department of Emergency Medicine, 1999
Credentials Committee, 1997-2000
Faculty Search Committee, Department of Emergency Medicine, 1999, 2000, 2002
Medical Director's Group, 1997-2002
Patient Care Review Committee, 2003
Medical Risk Management Committee, 2002-07
Patient Improvement and Outcome Committee, 2003-05
Medical Staff Executive Committee Reorganization Ad Hoc Committee, 2005-2006
UCSD Phasing Strategy Ad Hoc Committee, 2005-06
Clinical Representative, Trauma Quality Assurance Program, 1998-2006
Vice Chief of Staff, UCSD Medical Center, 2007-2009
UCSD/San Diego Sheriff Security Working Group, 2003-10
Chief of Staff, UCSD Medical Center, 2009-2012
Vice-Chair, Quality Council Committee, 2009-2012 (member since 2003)
Chair, Medical Staff Executive Committee, 2009-2012
UCSD Governance Advisory Committee, 2009-2012
UCSD Department of Medicine Clinical Operations Redesign Enterprise (CORE) Initiative Team, 2009-2012

PREVIOUS UCSD COMMITTEE MEMBERSHIPS, continued:

Director of Risk Management Selection Committee, 2007
Chair, Medical Risk Management Committee, 2003-07 (member since 2002)
Medical Risk Management Executive Committee, 2003-07
UCSD Medical Center Allocation Committee 2005-07
Patient Safety Committee, 2003-07
Vice Chair, Medical Staff Executive Committee, 2007-09
Chair, Patient Care and Peer Review Committee, 2007-09 (member since 2005)
Trauma Multidisciplinary Committee, 2000-09
Department of Medicine Committee on Advancement and Promotions (DOMCAP), 2007-09
Vice Chair, Quality Council Committee, 2009-2012
UCSD Medical Center Syncope Task Force, 2010-11
UCSD Director of Risk Management Selection Committee, 2012
Secretary-Treasurer, UCSD Academy of Clinician Scholars, 2005-12
UCSD Root Cause Analysis Committee, 2013
UCSD Department of Emergency Medicine Chair Selection Committee, 2012-13
UCSD Department of Emergency Medicine Faculty Coverage Committee, 2012-13
UCSD Integrated Delivery Network Design Team, 2012-13
UCSD Department of Emergency Medicine Patient Satisfaction Committee, 2012-13
UCSD Department of Emergency Medicine Faculty Search Committee, 2013

CURRENT COMMITTEE MEMBERSHIPS:

American Academy of Emergency Physicians, Clinical Practice Committee, 2011
Carlsbad Fire Department EMS Oversight Committee, 2013
San Diego County Base Station Physicians' Committee, 2013

PREVIOUS COMMITTEE MEMBERSHIPS:

Practice Management Committee, CAL/ACEP, 1994-95
Committee on Prehospital Stroke Triage, San Diego County Medical Society, 1998
Research Subcommittee, San Diego County Prehospital Audit Committee, 1997-99
Prehospital RSI Task Force, San Diego County Prehospital Audit Committee, 1997-99
Chair, San Diego County Prehospital Audit Committee, 1998-2000
San Diego County Pediatric CPR Task Force, 1999-2000
San Diego Sheriff's Source Selection Committee, 2000
Steering Committee, San Diego County Metropolitan Medical Strike Team, 1998-2001
Program Committee, CAL/ACEP Scientific Assembly, 1998-2001 (Co-Chair for 1999-2001)
Awards Committee, CAL/ACEP Scientific Assembly, 1999-2001
EMS Committee, San Diego County Metropolitan Medical Strike Team, 1999-2001
San Diego Metropolitan Medical Response System Bio-Terrorism Planning Group, 1999-2001
San Diego County EMS QA Net Prehospital Design Steering Committee, 2000-01
Chair, CPR Subcommittee, San Diego County Prehospital Audit Committee, 1998-2002
San Diego County SIPs (Serial Inebriate Program) Task Force, 2000-02
Task Force Leader, CAL/ACEP Scientific Assembly, 2001-02
Chair, Training Committee, San Diego County Metropolitan Medical Strike Team, 2001-02
Co-Chair, EMS Committee, CAL/ACEP, 2001-02
Policy Committee, CAL/ACEP, 2001-02
Chair, Research Subcommittee, San Diego County Prehospital Audit Committee, 2000-02
Governmental Affairs Committee, CAL/ACEP, 2001-02
Didactic Subcommittee, SAEM Program Committee, 2001-02
Program Mgmt Committee, San Diego County Metropolitan Medical Strike Team, 2001-03
Air Medical Transport Section, American College of Emergency Physicians, 2001-03
San Diego County Sheriff's Mortality Review Committee, 2001-03
San Diego County Sheriff's Pharmacy and Therapeutics Committee, 2001-03
City of San Diego EMS Physicians' Advisory Committee, 1998-2006
City of San Diego Prehospital Cardiac Advisory Committee, 1998-2006
Education Committee, CAL/ACEP, 2000-03
SAEM EMS Interest Group, 2001-2006 (Co-chair 2003-04)

PREVIOUS COMMITTEE MEMBERSHIPS, continued:

San Diego County EMS for Children (EMSC) Advisory Committee, 2002-05
Scientific Subcommittee, SAEM Program Committee, 2002-05
Police Executive Research Forum Task Force on Conductive Energy Weapons Use, 2005
San Diego County EMS for Children (EMSC) Advisory Committee, 2002-05
Scientific Subcommittee, SAEM Program Committee, 2002-05
Member-at-large, EMDAC Officer Board, 2004-05
San Diego County Fire Chief's Association, 2004-06
San Diego County Sheriff's Helicopter Program Ad Hoc Advisory Committee, 2004-06
Chair, San Diego County HRSA Work Group, 2004-06
San Diego County Regional Helicopter Advisory Committee, 2004-06
San Diego County HRSA Executive Steering Committee, 2004-06
San Diego County Critical Care Transport Working Group, 2005-06
San Diego County Prehospital Patient Record IT Steering Committee, 2005-06
San Diego County Cardiac Advisory Committee, 2005-06
San Diego County Stroke Advisory Committee, 2005-06
San Diego County Emergency Medical Care Committee, 2006
Co-Chair, San Diego County Medical Society EMS Medical Oversight Committee, 2002-2006
Chair, EMS Committee, American Academy of Emergency Medicine California Chapter, 2000-06
EMS Medical Director's Association of California, 2002-06
San Diego County Trauma Administrators Committee, 2002-06
Chair, San Diego County EMS Research Committee, 2002-06
Chair, San Diego County Paramedic Protocol Revision Committee, 2002-06
San Diego County Public Health Services Physicians Group, 2003-06
SAEM EMS Interest Group, 2001-2006 (Co-chair 2003-04)
San Diego County Healthcare Advisory Committee on Terrorism, 2003-06
San Diego County Paramedic Training Joint Advisory Committee, 2000-06
San Diego County Public Health Preparedness Team, 2001-06
EMS Section, American College of Emergency Physicians, 2001-06
Chair, San Diego County Aeromedical Protocol Committee, 1998-2006
San Diego County Committee on Pediatric Emergency Medicine, 1998-2006

PREVIOUS COMMITTEE MEMBERSHIPS, continued:

San Diego County Base Hospital Physicians Committee, 1997-2006

San Diego County Trauma Audit Committee, 1997-2006

San Diego County Prehospital Audit Committee, 1997-2006

EMS Medical Director's Association of California, 2002-06

SAEM Program Committee, 2001-2007

Chair, Photography Subcommittee, SAEM Program Committee, 2002-2007

Training Committee, San Diego County Metropolitan Medical Strike Team, 2001-09

San Diego BEACON/EMS Hub Technical Committee, 2012-13

San Diego Central Jail Quality Assurance Committee, 1999-2013

San Diego Central Jail Medical Oversight Committee, 1999-2013

Resuscitative Outcomes Consortium (ROC) Executive Committee, 2014-15

Resuscitative Outcomes Consortium (ROC) EMS Operations Committee, 2014-15

Resuscitative Outcomes Consortium (ROC) Management Committee, 2014-15

Resuscitative Outcomes Consortium (ROC) Hospital Practices Cardiac Committee, 2014-15

Resuscitative Outcomes Consortium (ROC) Publications Committee, 2014-15

Resuscitative Outcomes Consortium (ROC) Cardiac Committee, 2014-15

Resuscitative Outcomes Consortium (ROC) Trauma Committee, 2014-15

CURRENT FUNDED RESEARCH:

1. Principal Investigator (PI) for study entitled, “EXCITATION Study: Unexplained In-Custody Deaths: Evaluating Biomarkers of Stress and Agitation.” Study funded by the National Institute of Justice, U.S. Department of Justice, 11/1/2012 to 6/30/2016. USDOJ Federal Award # 2012-R2-CX-K006. Amount: \$431,943
2. Principal Investigator (PI) for the study titled, “Resuscitation Outcomes Consortium (ROC) Protocol -ALPS”, funded by the NIH, 7/1/13 to 6/3/16. 5U01HL077863-11 subaward 758500. Amount: \$289,003
3. Co-Investigator with Edward Castillo (PI) for study entitled, “Acute Home Care as an Alternative to Inpatient Admission from the Emergency Department”. Funded by the Gary and Mary West Health Institute, 2015 – 2016. Amount: \$499,125.
4. Co-Investigator with Theodore Chan (PI) for study entitled, “The Gary and Mary West Geriatric Center of Excellence (West COE): Phase 1 Research Development”. Funded by the Gary and Mary West Health Institute, 2015-2016. Amount: \$243,610.

PREVIOUS FUNDED RESEARCH:

1. Co-Investigator with Tom Neuman (PI) for evaluation of positional asphyxia in the hobble restraint position, funded by the County of San Diego, 1995--\$33,900
2. Co-Investigator, with Theodore Chan (PI), for evaluation of the Melker percutaneous cricothyrotomy kit in human cadavers, funded by Cook Medical Products, 1997--\$10,000
3. Co-Investigator with John Eisele (PI) for the evaluation of positional asphyxia in the hobble restraint position with weight on subjects' backs, funded by the American Academy of Forensic Sciences, 1998--\$2,500
4. Co-Investigator, with Theodore Chan (PI), for study entitled, "The Impact of Oleoresin Capsicum Spray on Respiratory Function in Human Subjects in the Sitting and Prone Maximal Restraint Positions." Study funded by the National Institute of Justice, U.S. Department of Justice, 1998-99. UCSD No. 98-7107; USDOJ Federal Award #98-IJ-CX-0079. Amount: \$128,176
5. Principle Investigator (PI) for study entitled "Evaluation of Hurracaine anesthetic in patients with dyspepsia" funded by Beutlich Pharmaceuticals for, 2001. Amount: \$1,500
6. Co-Investigator, with Theodore Chan (PI), for evaluation of the Melker percutaneous cricothyrotomy kit in human cadavers, funded by Cook Medical Products, 2003. Amount: \$12,000
7. Co-Investigator, with David Hoyt (PI) for the Resuscitation Outcomes Consortium: UCSD / San Diego Resuscitation Research Center, funded by the NIH, 9/1/04 to 6/30/09. UO1 HL077908. Amount: \$2,250,522
8. Co-Principal Investigator (Co-PI), with Theodore Chan, for study entitled, "The effect of Taser on Cardiac, Respiratory and Metabolic Physiology in Human Subjects." Study funded by the National Institute of Justice, U.S. Department of Justice, 10/1/2005 to 9/30/2007. UCSD No. 2006-0846; USDOJ Federal Award #98-IJ-CX-0079. Amount: \$213,941.4
9. Co-Investigator, with Daniel Davis (PI) for the study entitled, "ROC Interventional Trials: Hypertonic Resuscitation for Traumatic Injury, Trauma Epistry, PRIMED", funded by the NIH, 7/1/06 to 6/30/08. UO1 HL077863. Amount: \$331,320
10. Co-Investigator, with Daniel Davis (PI) for the, "ROC Cardiac Epistry", funded by the AHA, 7/1/06 to 6/30/08. Amount: \$133,427
11. Co-Investigator, with Theodore Chan (PI) for study entitled, "Multi-Center Study of the Impact of Nurse-Patient Ratios on Emergency Department Overcrowding." funded by the Emergency Medicine Foundation, 7/1/07 to 6/30/08. Amount: \$50,000
12. Principal Investigator (PI) for study entitled, "Evaluation of the Ventilatory and Respiratory Effects of a Restraint Chair on Human Subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc, 1/1/07 to 12/31/07. Amount: \$11,658

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13. Co-Investigator, with Edward Castillo (PI) for study entitled, "California ED Diversion Project Evaluation." funded by the California Healthcare Foundation, 5/15/08 to 10/15/08. Amount: \$50,990
14. Principal Investigator (PI) for study entitled, "Ventilatory Effects of Prone Restraint on Obese Human Subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc, 1/1/09 to 12/31/09. Amount: \$13,423
15. Principal Investigator (PI) for study entitled, "FAST TRAC: Finding ACS with Serial Troponin Testing for Rapid Assessment." Funded by the Nanosphere, Inc. 2/1/09 to 2/1/11. Amount: \$85,000
16. Principal Investigator (PI) for study entitled, "CHOPIN: Copentin Helps in the Early Detection of Patients with Acute Myocardial Infarction." Funded by Brahms AG, 8/1/09 to 8/1/12. Amount: \$103,950
17. Co-Investigator, with Christine Hall for the study titled, "RESTRAINT - Risk of dEath in Subjects That Resisted: Assessment of Incidence and Nature of faTal events", funded by the Vancouver Island Health Authority. 7/1/09 to 6/30/11. Amount \$50,000
18. Co-Investigator for study titled "STAT MERCURY: Studying the Treatment of Acute HyperTension: A Multicenter EmeRgency Department Clevidipine Utilization RestrY" funded by the Medicines Company, 7/27/10 to 11/1/11. Amount \$1400
19. Co-Investigator for study titled "A Phase II, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of MN-221 when Administered Intravenously as an Adjunct to Standard Therapy to Adults with an Acute Exacerbation of Asthma." Study funded by MediciNova, Inc. 1/1/11 to 1/31/12. Amount \$50,000
20. Principle Investigator for study titled "AKINESIS: Acute Kidney Injury N-gal Evaluation of Symptomatic heart failure." Study funded by Alere and Abbott, 4/1/11 to 6/30/12. Amount \$32,000
21. Principle Investigator for study titled "Evaluation of Ecallantide (DX-88) for the Acute Treatment of Angiotensin Converting Enzyme Inhibitor Induced Angioedema, a Phase II, double-blind study. Study funded by Dyax Corporation. 4/1/11 to 6/30/12. Amount \$20,000
22. Principle Investigator for study titled "REAL: Rapid Evaluation of Acute Kidney Injury with NGAL in Acutely Ill Patients in the ICU." Study funded by Alere, 5/1/11 to 6/30/12. Amount \$74,435
23. Principle Investigator for study titled "A Mulit-Center, Open-Label, Surveillance Trial to Evaluate the Safety and Efficacy of a Shortened Infusion Time of Intravenous Ibuprofen Protocol CPI-CL-015." Study funded by Cumberland Pharmaceuticals, Inc., 6/1/11 to 6/30/12. Amount \$50,000

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24. Co-Investigator, with Edward Castillo (PI) for the study titled, "Restraint Chair Literature Review and Policy Gap Analysis", funded by the Ontario Ministry of Community Safety and Correctional Services, 7/1/13 to 9/30/13. COS-0010. Amount: \$15,000
25. Co-Investigator, with Daniel Davis (PI) for the study titled, "Resuscitation Outcomes Consortium (ROC) Regional Clinical Center, San Diego", funded by the NIH, 3/1/10 to 6/30/14. U01 HL077908-09. Amount: \$1,389,389
26. Co-Investigator with Edward Castillo (PI) for study entitled, "Diagnostic Evaluation using ClearView in Decision Making in the Emergency Room". Funded by EPIC Research and Diagnostics, Inc, 2012-2014. Amount: \$650,840.10 (based on 570 total participants).
27. Co-Investigator with Edward Castillo (PI) for study entitled, "Point-of-Care Testing for Illicit Drugs and Alcohol Intoxication in an Emergency Room". Funded by the National Institute on Drug Abuse through Seacoast Science, Inc., 2013-2015. Amount: \$50,163.
28. Co-Investigator with Edward Castillo (PI) for study entitled, "Evaluation of downward force placed onto prone subjects." Funded by the Institute for the Prevention of In-Custody Deaths, Inc., 2014-2015. Awarded, contract in process. Amount: \$7,500.
29. Co-Investigator with Edward Castillo (PI) for study entitled, "Acute Bacterial Skin and Skin Structure Infection (abSSSI) Practice Pattern Assessment." Funded by Durata Therapeutics International B.V., 2014-2015. Amount: \$15,000.
30. Co-Investigator with Edward Castillo (PI) for study entitled, "Exploring emergency room physician's knowledge and attitudes concerning the use of appropriate and safe home care as an alternative to hospital admission." Funded by the Gary and Mary West Health Institute, 2014-2015. Amount: \$118,021.
31. Co-Investigator with Allyson Kreshak (PI) for study entitled, "Telephone, Text or Type? Comparing Tools for Improving Physician-Patient Communication Beyond the Walls of the Emergency Department after Discharge." Funded by the UCSD Academy of Clinician Scholars, 2014-2015. Amount: \$10,000.
32. Principal Investigator (PI) for the study titled, "Resuscitation Outcomes Consortium (ROC) Regional Clinical Center, San Diego", funded by the NIH, 7/1/14 to 12/31/15. U01 HL077908-09. Amount: \$1,389,389

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174. Castillo EM, Chan TC, Killeen JP, Vilke GM: Knowledge of Acute Myocardial Infarction Symptoms: Do Sex Differences Still Exist? *Ann Emer Med* 2012;60(4)S83.
175. Chan TC, Castillo EM, Dunford JV, Fisher R, Jensen AM, Vilke GM, Killeen JP: Hot Spots and Frequent Fliers: Identifying High Users of Emergency Medical Services. *Ann Emer Med* 2012;60(4) S83-S84.
176. Brennan JJ, Chan TC, Vilke GM, Killeen JP, Castillo EM: Identification of Frequent Users of Hospital Emergency Department Resources Using a Community-wide Approach. *Ann Emer Med* 2012;60(4)S102.
177. Chan TC, Killeen JP, Brennan JJ, Vilke GM, Castillo EM: The Forgotten Emergency Department Visit When Assessing Hospital Readmissions. *Ann Emer Med* 2012;60(4)S105.
178. Brennan JJ, Chan TC, Killeen JP, Castillo EM, Vilke GM: Multiple Hospital Emergency Department Visits Among "Frequent Flyer" Patients With a Psychiatric-Associated Discharge Diagnosis. *Ann Emer Med* 2012;60(4) S146-S147.
179. Campillo A, MacDonald KS, Vilke GM, Wilson MP: The B52 Combination Is Not Frequently Used in Emergency Departments and Causes A High Proportion of Patients to Fall Asleep. *Ann Emer Med* 2012;60(4) S147.
180. Lin GK, Vilke GM, Castillo EM, Chen N, Wilson MP: A Comparison of Oral Aripiprazole and Oral Olanzapine Use in the Emergency Department. *Ann Emer Med* 2012;60(4) S147-S148.

PUBLICATIONS, continued:

Abstracts

181. Sloane C, Chan TC, Vilke GM, Castillo EM, Kolkhorst F, Neuman T: The Ventilatory Effects of the Prone Maximal Restraint Position on Obese Human Subjects. *Acad Emer Med* 2013;20(5):S105.
182. Hogen R, Brennan JJ, Vilke GM, Chan TC, Castillo EM: Visit Urgency amongst the Chronic Disease Population in a Large Metropolitan Region Emergency Department Network. *Acad Emer Med* 2013;20(5):S172.
183. Castillo EM, Chan TC, Vilke GM, Killeen JP, Brennan JJ: Factors Associated with Super Users of Emergency Department Resources Admitted to Acute Care. *Acad Emer Med* 2013;20(5):S183.
184. Brennan JJ, Chan TC, Vilke GM, Castillo EM, Killeen JP: Comorbidity among Frequent Emergency Department Users with Psychiatric Associated Discharge Diagnoses. *Acad Emer Med* 2013;20(5):S229.
185. Brennan JJ, Castillo EM, Vilke GM, Killeen JP, Chan TC: Factors Associated with Frequent Users of California Emergency Department Resources. *Acad Emer Med* 2013;20(5):S230.
186. Chan TC, Brennan JJ, Killeen JK, Stevenson ME, Kuntz KE, Vilke GM, Castillo EM: Impact of Social Services Case Management on Homeless, Frequent Users of Emergency Departments. *Acad Emer Med* 2013;20(5):S231.
187. Castillo EM, Chan TC, Brennan JJ, Roberts EE, Vilke GM. What Contributes to Subject and Officer Injuries During Law Enforcement Use of Force Events? *Ann Emerg Med* 2013, 62(4), S107.
188. Brennan JJ, Castillo EM, Wilson M, Chan TC, Killeen JP, Vilke GM. Psychiatric-Associated Visits to California Emergency Departments: Presence of Licensed Psychiatric Beds and Admission. *Ann Emerg Med* 2013, 62(4), S118.
189. Granata RT, Vilke GM. Impact of deferred CT imaging of intoxicated patients presenting with altered mental status. *J Invest Med* 2014;61(1):214.
190. Nowak RM, Schreiber D, Hollander J, Nagurney J, Hogan C, Wu A, Vilke GM, Apple F, Cannon C, Daniels L, Anand I, deFillippi C, McCord J, Shah K, Marston N, Neath SX, Christenson R, Diercks D, Limkakeng A, Jaffe A, Mueller C, Maisel A, Peacock F: Copeptin Provides Prognostic Value in Emergency Department Patients Presenting with Acute Undifferentiated Chest Pain. *Acad Emerg Med* 2014;21(5):S89.

PUBLICATIONS, continued:

Abstracts

191. Peacock W, Nowak R, Neath SX, Hollander J, Cannon C, Nagurney JT, Schreiber D, Hogan C, Diercks D, Stein JC, Headden G, Limkakeng AT, Mueller C, Vilke GM, Maisel A: Can a Second Measurement of Copeptin Improve Acute Myocardial Infarction Rule Out? Acad Emerg Med 2014;21(5):S90.
192. Vilke GM, Lassooff D, Chan TC, Hall CA, Bozeman WP, Castillo EM. Proning: Outcomes of Use of Force Followed with Prone Restraint. Acad Emerg Med 2014; 21(Supp 1): S161.
193. Vilke GM, Chan TC, Roberts EE, Moore JD, Parra KM, Castillo EM. Does Law Enforcement Use Different Levels of Force if the Subject Appears to be Mentally Impaired? Acad Emerg Med 2014; 21(Supp 1): S238.
194. Hopper A, Dee J, Vilke GM, Castillo EM, Chen V, Hall D, Wilson MP. Hypotensive Effects of Risperidone Are Not Increased When Used in Conjunction with Benzodiazepines or in Alcohol Intoxicated Patients but May Increase in Elderly Patients. Acad Emerg Med 2014; 21(Supp 1):S56.
195. Castillo, EM, Brennan JJ, Hsia RY, Killeen JP, Vilke, GM, Chan TC. Thirty-day Readmissions Through the Emergency Department in a Large, Metropolitan Region. Acad Emerg Med 2014; 21(Supp 1):S108.
196. Castillo EM, Chan TC, Hsia RY, Killeen JP, Vilke GM, Brennan JJ. Should Rural Hospitals be Concerned about Frequent Users of Emergency Department Resources? Acad Emerg Med 2014; 21(Supp 1):S218.
197. Brennan JJ, Chan TC, Vilke GM, Hsia RY, Killeen JP, Castillo EM. Traveling Super Users of California Emergency Departments. Acad Emerg Med 2014; 21(Supp 1):S220.
198. Killeen JP, Castillo EM, Brennan JJ, Vilke GM, Chan TC. Does Emergency Department Interrogation Reduce ED Time for Patients with Pacemakers or ICDs? Acad Emerg Med 2014; 21(Supp 1):S274.
199. Castillo EM, Brennan JJ, Hsia RY, Killeen JP, Vilke GM, Chan TC. Multiple Emergency Department Use and 30-day ED Visits. Acad Emerg Med 2014; 21(Supp 1):S322.
200. Marston N, Shah K, Mueller C, Neath SX, Christenson R, McCord J, Nowak R, Vilke G, Daniels L, Hollander J, Apple F, Cannon C, Nagurney J, Schreiber D, DeFilippi C, Hogan C, Diercks D, Limkaken A, Anand I, Jaffe A, Peacock WF, Maisel A, Wu, A: Can a second measurement of copeptin improve acute myocardial infarction rule out?. J Am Coll Cardiol 2014;63(12_S).

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Abstracts

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202. Castillo EM, Dang AQ, Chan TC, Vilke GM. Mortality and Timing of Death in Patients With Runaway Pacemakers. *Ann Emerg Med* 2014; 64(4s):S111.
203. Brennan JJ, Chan TC, Hsia RY, Vilke GM, Killeen JP, Castillo EM. Predicting Frequent Use of Emergency Department Resources. *Ann Emerg Med* 2014; 64(4s):S118 – S119.
204. Campillo A, Castillo EM, Vilke GM, Wilson MP. Use of Quetiapine in the Emergency Department for Acute Agitation and Associated Physiologic Effects. *Ann Emerg Med* 2014; 64(4s):S138.
205. Vilke GM, Lev R, Chan TC, Lucas J, Smith J, Painter NA, Castillo EM. Prescription Drug Prescribing Patterns in a Large Regional Area. *Ann Emerg Med* 2014; 64(4s):S139-S140.
206. Hopper AB, Deen J, Smith C, Campillo A, Vilke GM, Castillo EM, Wilson MP. Hypotensive Effects of Oral Second Generation Antipsychotics in the Emergency Department. *Ann Emerg Med* 2014; 64(4s):S140-S141.
207. Marston N, Shah K, Mueller C, Neath SX, Christenson R, McCord J, Nowak R, Vilke GM, Daniels L, Hollander J, Apple F, Cannon C, Nagurney J, Schreiber D, deFilippi C, Hogan C, Diercks D, Limkakend A, Anand I, Wu A, Clopton P, Jeffe A, Peacock F, Maisel A. Does Copeptin Provide Additional Risk Stratification in Chest Pain Patients With a Mild Troponin Elevation? *Circulation* 2014; 130:A12996.
208. Egnatios J, Lev R, Petro S, Castillo E, Vilke G. Long Active Death: Medadone. *Ann Emerg Med* 2015; 66(4s):S140-S141.
209. Vilke GM, Guss DA. Pilot Study of Telemedicine in a County Jail to Assess and Treat Acutely Ill Inmates. *Ann Emerg Med* 2015; 66(4s): S14.
210. Brennan JJ, Vilke GM, Hsia RY, Chan TC, Killeen JP, Huang J, Castillo EM. Transient Ischemic Attack “Bouncebacks”: Emergency Department Discharges Who Return as Admissions Within Seven Days. *Ann Emerg Med* 2015; 66(4s):S112.
211. Brennan JJ, Chan TC, Vilke GM, Killeen JP, Hsia RY, Tehaney K, Castillo EM. Admissions Within Seven Days of an Emergency Department Discharge. *Ann Emerg Med* 2015; 66(4s):S89.

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212. Lev R, Lee O, Petro S, Lucas J, Castillo EM, Vilke GM, Coyne CJ. Specialty-Specific Prescribing Patterns to Patients Who Die From Prescription Drugs: How Do Emergency Physicians Compare? *Ann Emerg Med* 2015; 66(4s):S119.
213. Castillo EM, Chan, TC, Vilke GM, Hsia RY, Ishamine P, Shah S, Kapoor K, Brennan JJ. A Description of Pediatric Frequent Users of Emergency Department Resources. *Ann Emerg Med* 2015; 66(4s):S8.
214. Chan TC, Brennan JJ, Vilke GM, Hsia RY, Killeen JP, Castillo EM. The Changing Landscape of Emergency Department Visits in California. *Acad Emerg Med* 2016; 23:S15
215. Castillo EM, Vilke GM, Killeen JP, Hsia RY, Wilson MP, Brennan JJ. ED Utilization Prior to a Suicide and Self-Inflicted Injury Related ED Visit. *Acad Emerg Med* 2016; 23:S17.
216. Supat B, Brennan JJ, Vilke GM, Ishimine P, Shah S, Hsia RY, Castillo EM. Assessing Factors Associated with Pediatric Frequent Emergency Department Utilization. *Acad Emerg Med* 2016; 23:S32.
217. Coyne CJ, Chiu C, Brennan JJ, Castillo EM, Vilke GM. Medication Adherence in the Emergency Department: What are the Barriers? *Acad Emerg Med* 2016; 23:S41.
218. Spinosa DL, Brennan JJ, Castillo EM, Hsia RY, Vilke GM. Multivariate Analysis of 30-Day Readmission for Acute Myocardial Infarction. *Acad Emerg Med* 2016; 23:S118.
219. Castillo EM, Brennan JJ, Shah S, Vilke GM, Hsia RY, Nguyen M. Asthma and Asthma-Mimicking Pediatric ED Revisit Within Three Days of an ED Discharge. *Acad Emerg Med* 2016; 23:S120.
220. Castillo EM, Brennan JJ, Chan TC, Killeen JP, Hsia RY, Vilke GM. ED Utilization 3-Days Prior to a Fall-Related ED Visit Among Elderly Patients. *Acad Emerg Med* 2016; 23:S139.
221. Coyne CJ, Le V, Brennan JJ, Castillo EM, Shatsky RA, Vilke GM. Low-Risk febrile Neutropenia: Can These Patients be Safely Discharged from the Emergency Department? *Acad Emerg Med* 2016; 23:S161.
222. Brennan JJ, Vilke GM, Chan TC, Killeen JP, Hsia RY, Castillo EM. ED Revisits Within 3 Days of an ED Discharge Among Elderly Patients. *Acad Emerg Med* 2016; 23:S169.
223. Nakajima Y, Vilke GM, Castillo EM, Brennan JJ, Hsia R. Asthma Bouncebacks Emergency Department Discharges Who Return as Admission Within Three Days. *Acad Emerg Med* 2016; 23:S202.

PUBLICATIONS, continued:

Abstracts

224. Benaron D, Castillo E, Vilke G, Guluma K. Emergency Department Patient Perception of Stroke: A Comparison of Elderly and Nonelderly Knowledge of Stroke. Acad Emerg Med 2016; 23:S256.

ORAL PRESENTATIONS AT NATIONAL MEETINGS:

1. Chan TC, Buchanan J, Anderson M, Vilke GM: Patient ethnicity and age in prehospital emergency ambulance use and acuity rates. NAEMSP Mid-Year Meeting, Lake Tahoe, Nevada; July 1998.
2. Vilke GM, Dunford JV, Buchanan J, Chan TC: Are opiate overdose deaths related to patient release after naloxone? ACEP Research Forum, San Diego, California; October 1998.
3. Gerling MC, Hamilton RS, Davis DP, Morris GF, Vilke GM, Hayden SR: The effects of cervical spine immobilization on technique and laryngoscope blade selection on an unstable cervical spine injury in a cadaver model of intubation. ACEP Research Forum, San Diego, California; October 1998.
4. Vilke GM, Chan TC, Ray LU, Anderson ME: Use of prehospital crash injury data to assess regional automobile safety restraint use. NAEMSP Annual Meeting, Marcos Island, Florida; January 1999.
5. Chew GS, Chan TC, Bramwell K, Davis DP, Vilke GM: Does gastric distention from air insufflation affect the accuracy of the syringe esophageal detector device in detecting esophageal intubation? SAEM Western Regional Research Forum, Redondo Beach, California; March 1999.
6. Davis DP, Kimbro T, Vilke GM: The use of midazolam for prehospital rapid-sequence intubation may be associated with a dose-related increase in hypotension. NAEMSP Annual Meeting, Dana Point, California; January 2000.
7. Marino AT, Shariieff G, Gerhart AE, Chan TC, Vilke GM: The efficacy and complication rate of prehospital midazolam for the treatment of pediatric seizures. NAEMSP Annual Meeting, Dana Point, California; January 2000.
8. Eisele JW, Chan T, Vilke G, Neuman T, Clausen J: Effect of weight placed on the back of subjects in the hobble restraint position. American Academy of Forensic Sciences Annual Meeting, Reno, Nevada; February 2000.
9. Chan TC, Vilke GM, Neuman TS, Clark RF, Clausen JL: The effect of oleoresin capsicum spray inhalation on pulmonary and respiratory function. SAEM Western Regional Research Forum, Portland, Oregon; April 2000.
10. Vilke GM, Chan TC, Seltzer A, Fisher R, Dunford JV: Outcome of out-of-hospital refusal of paramedic transport by parents of pediatric patients. State of California EMS Authority EMS for Children Annual Conference, San Diego, California; November 2000.
11. Deitch S, Vilke GM, Marino A, Vroman D, Chan TC: Effect of prehospital use of nitroglycerine on EKG findings in patients with chest pain. American Academy of Emergency Medicine Annual Conference, Orlando, Florida; March 2001.

ORAL PRESENTATIONS AT NATIONAL MEETINGS, continued:

12. Vilke GM, Steen PJ, Smith AM, Chan TC: Pediatric intubation by paramedics: The San Diego County experience. SAEM Western Regional Research Forum, Irvine, California; March 2001.
13. Davis DP, Ochs M, Hoyt DB, Dunford JV, Vilke GM: The use of the Combitube as a salvage airway device for paramedic RSI. SAEM Western Regional Research Forum, Irvine, California; March 2001.
14. Chan TC, Dunford JV, Vilke GM: Impact of a community multidisciplinary homeless outreach team. SAEM Annual Meeting, Atlanta, Georgia; May 2001.
15. Chan TC, Dunford JV, Vilke GM: Impact of a community multidisciplinary homeless outreach team. CAL/ACEP Scientific Assembly, Santa Clara, California; June 2001. (Won Award for Best Oral Presentation)
16. Valentine C, Davis D, Ochs M, Hoyt D, Bailey D, Vilke G: The use of the Combitube as a salvage airway device for paramedic rapid sequence induction. NAEMSP Annual Meeting, Tucson, Arizona; January 2002.
17. Vilke GM, Lev R, Castillo EM, Metz MA, Murrin PA, Chan TC: Prospective countywide trial to decrease ambulance diversion hours. SAEM Western Regional Meeting, Scottsdale, Arizona; April 2003.
18. Vilke GM, Lev R, Castillo EM, Murrin PA, Chan TC: Prospective countywide trial to decrease ambulance diversion hours. SAEM Annual Meeting, Boston, Massachusetts, May 2003.
19. Vilke GM, Lev R, Castillo EM, Metz MA, Murrin PA, Chan TC: San Diego County improved patient destination trial to decrease emergency department diversion hours and diverted patients. American College of Emergency Physicians Research Forum, Boston, Massachusetts; October 2003.
20. Vilke G, Castillo E, Metz M, Murrin P, Ray LU, Lev R, Chan T: Community trial to decrease ambulance diversion of patients and hours. NAEMSP National Conference, Tucson, Arizona; January 2004.
21. Marcelyn Metz, Patricia Murrin, Gary M. Vilke: The three-phase EMS cardiac arrest model for ventricular fibrillation. ENA Annual Meeting; San Diego, California; October 2004.
22. Michalewicz, BA, TC Chan, GM Vilke, SS Levy, TS Neuman, and FW Kolkhorst: Ventilatory and metabolic demands during aggressive physical restraint in healthy adults. American College of Sports Medicine Annual Meeting, Denver, CO; June 2006. [*Medicine and Science in Sports and Exercise* 38(5 Supplement), 2006].
23. Vilke GM, Ali S, Simmons T, Witucki P, Wilson MP. Does an alcohol-based sanitizer impact breathalyzer levels? SAEM Annual Meeting, Chicago, Illinois; May 2012.

SELECTED SPEAKING ENGAGEMENTS:

1. "Death of a Child: How to Treat the Survivors" -- Grand Rounds, Department of Emergency Medicine, UCSD Medical Center; April 1996.
2. "Assessing GCS and the Field Neurologic Exam" -- Palomar College Paramedic Training; June 1998.
3. "Prehospital Shock"; "Management of the Field Trauma Patient" -- Mercy Air, Ventura County Lecture Series; August 1998.
4. "ER: Not Just a Television Show, But a Field of Research" -- Howard Hughes Foundation Lecture Series, University of California, San Diego; November 1998.
5. "Multi-Casualty Incident" -- UCSD Medical Center Trauma Conference; March 1999.
6. "Managing the Prehospital Multi-Casualty Incident" -- Southwestern College Paramedic Training Institute; May 1999.
7. "Aeromedical Transport: The Past and Current Environment" -- Trauma Morbidity and Mortality Conference, Children's Hospital, San Diego, California; July 1999.
8. "Altitude Medicine"; "Carbon Monoxide Poisoning and Treatment Options"; "Aeromedical Transport Options"; "Emergent Airway Management Options" -- Rural Emergency Medicine Conference, Jackson Hole, Wyoming; August 1999.
9. "Abdominal and Chest Trauma in Sports" -- First Annual San Diego County Athletic Coaches Workshop, San Diego, California; June 2000.
10. "Tabletop Discussion on Chemical Weapon of Mass Destruction" -- Facilitator of Tabletop Training for San Diego County Metropolitan Medical Strike Team; July 2000.
11. "Pediatric IV Access"; "Spinal Immobilization"; "Children with Special Health Care Needs"; "Cardiovascular Emergencies" -- American Academy of Pediatrics Pediatric Education for Prehospital Professionals Conference, San Diego, California; November 2000.
12. "New Frontiers in Field Management of Pediatric Status Epilepticus" -- State of California EMS Authority Annual EMS for Children Conference, San Diego, California; November 2000.
13. "EMS Medical Control: Avoiding your Day in Court" -- ACEP's Emergency Medicine Connection Conference, San Diego, California; March 2001.
14. "Pediatric Intubations by Paramedics" -- San Diego Chapter of the Committee on Pediatric Emergency Medicine; April 2001.
15. "Warfare and Terrorism: A Review of Chemical Agents -- San Diego County Metropolitan Medical Strike Team Training; August 2001.

SELECTED SPEAKING ENGAGEMENTS, continued:

16. "Bioterrorism and San Diego County" -- Council of Community Clinics Meeting; October 2001.
17. "Bioterrorism and San Diego County Readiness" -- CTN interview with Bill Horn; October 2001.
18. "Future of Prehospital Care" -- Keynote Speaker, Southwestern Paramedic College Graduation; November 2001.
19. "Biological Agents for Terrorism" -- San Diego County Metropolitan Medical Strike Team Training; November 2001.
20. "Clinical Aspects of Bioterrorist Agents" -- Palomar Paramedic College; November 2001.
21. "Clinical Aspects of Bioterrorism" -- Grand Rounds, Fallbrook Hospital; January 2002.
22. "Bioterrorism and San Diego County Readiness" -- Poway Town Hall Meeting; January 2002.
23. "Bioterrorist Preparedness" -- National Medical Association, San Diego County; January 2002.
24. "Chemical Agents of Terrorism: Diagnosis and Treatment" -- Topics and Advances in Internal Medicine, San Diego, California; March 2002.
25. "Bioterrorism: Implications for the Legal and Domestic Community" -- Thomas Jefferson School of Law, San Diego, California; April 2002.
26. "Prehospital Management of Pediatric Seizures" -- EMS-Children Annual Conference; San Diego, California; November 2002.
27. "Paramedicine – Past, Present and Future" -- Keynote Speaker, Southwestern Paramedic College Graduation; San Diego, California; December 2002.
28. "Medical Group Preparedness: How would you Respond to a Possible Victim of Bioterrorism?" -- Bioterrorism Preparedness Training Conference; San Diego California; January 2003.
29. "Update on Bioterrorism" -- The Western States Winter Conference on Emergency Medicine; Park City, Utah; January 2003.
30. "Academic Emergency Medicine and Research Opportunities" -- San Diego Health Information Association, San Diego, California; February 11, 2003.
32. "Blast and Radiological Injuries: Myths and Realities" -- San Diego County Metropolitan Medical Strike Team Training; San Diego, California; August 2003.

SELECTED SPEAKING ENGAGEMENTS, continued:

33. "Clinical Aspects of Bioterrorism" -- American Correctional Health Services Association, California and Nevada Chapter Annual Conference, San Diego, California; September 2003.
34. "Bioterrorism" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; October 2003.
35. "Prehospital Pediatric Airway Obstruction" -- Children's Hospital Grand Rounds, San Diego, California; July 2004.
36. "Future of Healthcare in San Diego: Trends Impacting our Delivery System" -- San Diego Organization of Healthcare Leaders, San Diego, California; August 2004.
36. "Firestorm 2003" -- Children's Hospital Grand Rounds, San Diego, California; January 2004.
37. "EMS research: Unique ethical and regulatory issues" -- Applied Research Ethics National Association Annual meeting, San Diego, California; October 2004.
38. "What happens when you call 911?" -- San Diego Sports Medicine Foundation, San Diego, California; October 2004.
39. "Making the Metropolitan Medical Response System Work for You" -- Emergency Response 2004 Conference, San Diego, California; November 2004.
40. "San Diego County Emergency Department Ambulance Bypass - Past, Present, Future" -- Urgent Matters Briefing, San Diego, California; November 2004.
41. "San Diego County Emergency Department Ambulance Bypass - Past, Present, and Future" -- San Diego Community Emergency Departments, San Diego, California; December 2, 2004.
42. "Emergency Response Management for Efficiency of Care and Fiscal Consideration" -- American Correctional Health Services Association, Oakland, California; April 2, 2005.
43. "Conducted Energy Devices -- Medical Updates and Issues" -- Police Executive Research Forum, Houston, Texas; October 18, 2005.
44. "Conducted Energy Devices Proximity Deaths and Medical Response" -- 2005 Critical Issues in Policing Series, Police Executive Research Forum, San Diego, California; December 8, 2005.
45. "Conductive Electrical Devices (Tasers®) and Patients with Excited Delirium for Law Enforcement and Emergency Medical Personnel" -- The U.S. Metropolitan Municipalities EMS Medical Directors Annual Meeting, Dallas, Texas; February 16, 2006.
46. "Tasers and Sudden Death" -- Keynote speaker at One Day Symposium on In-Custody Deaths by the Florida Sheriffs Association, Orlando, Florida; June 1, 2006.

SELECTED SPEAKING ENGAGEMENTS, continued:

47. "Medical Aspects of the Use of Force Continuum" -- Department of Justice Community Oriented Policing Services (COPS) Conference, Washington, DC; July 29, 2006.
48. "Resuscitation Outcomes Consortium" -- 7th Annual University of California Neurotrauma Meeting, Carmel, California; August 3, 2006.
49. "Use of Force: Sudden Death Myths and Excited Delirium" -- The Commission of Accreditation for Law Enforcement Agencies (CALEA) Less Lethal Technology Working Group Meeting, Washington, DC; September 10, 2006.
50. "Police In-Custody Deaths and the Taser Controversy" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; September 2006.
51. "Conductive Energy Devices: The medical aspects of Taser Electronic Control Devices (ECDs) and other Energy Devices" -- Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 16-17, 2006.
52. "Cardiac, Respiratory and Metabolic Effects of EMD" -- Study of Deaths Following Electro Muscular Disruption, Meeting of the Chief Medical Panel for the National Institute of Justice. Washington D.C.; January 9, 2007.
53. "The Medical Implications of Tasers and the Impact on EMS" -- National Association of EMS Physicians National Conference. Naples, FL; January 12, 2007.
54. "Excited Delirium" - Solutions For Corrections Seminar for the California State Sheriff's Association. Ontario, CA; February 7, 2007.
55. "Excited delirium, positional asphyxia and restraint" -- EMS Today Conference, Baltimore, Maryland; March 10, 2007.
56. "Medical implications of Tasers and other Conductive Energy Devices" -- EMS Today Conference, Baltimore, Maryland; March 10, 2007.
57. "Excited Delirium" -- American Correctional Health Services Association, Oakland, California; September 19, 2007.
58. "Human Physiologic Effects of Tasers" -- Study of Deaths Following Electro Muscular Disruption, Meeting of the Chief Medical Panel for the National Institute of Justice. Washington D.C.; September 27, 2007.
59. "The clinical impacts of TASER and other Conductive Energy Devices on Humans: A Review of the latest Medical Research" -- Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 28-30, 2007.

SELECTED SPEAKING ENGAGEMENTS, continued:

60. "Physiological Effects of Tasers" – The City Council of Miami-Dade. Miami, Florida; January 17, 2008.
61. "Excited Delirium: What is it? Why does it kill? What do we need to know about it? Western States Winter Conference on Emergency Medicine. Park City, Utah, February 8, 2008.
62. "Medical Effects of Tasers" – The City Council of Houston. Houston, Texas; March 10, 2008.
63. "Less Lethal Weapons" - Emergency Nurses Association, San Diego Chapter. San Diego, California; April 18, 2008.
64. "The Clinical Impacts of TASER and other Conductive Energy Devices on Humans and Why People Die Afterwards" -- American Correctional Health Services Association, San Diego, California; September 17, 2008.
65. "Police In-Custody Deaths and Excited Delirium" -- UCSD/SDSU General Preventive Medicine Residency Lecture Series, La Jolla, California; October 2008.
66. "The Clinical Impacts of TASER and other Conductive Energy Devices on Humans" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; October 29, 2008.
67. "Agitated Delirium – Role of Illicit Drug Use in Sudden Restraint Death" Western Medical Toxicology Fellowship Conference. San Diego, California; April 29, 2009.
68. "Conducted Energy Devices: Are They Safe Options?" Excited Delirium Conference by the Canadian Institute for the Prevention of In-Custody Deaths, Inc. Niagara Falls, Canada; May 26, 2009.
69. "The Physiologic Effects of the Taser on Humans" UCSD Biomedical and Clinical Research Seminars. San Diego, California; June 2, 2009.
70. "The Taser-Plastic Surgery Interface" UCSD Department of Plastic Surgery Grand Rounds. San Diego, California; June 17, 2009.
71. "ECD Research Update and Safety Issues" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 12, 2009.
72. "Use of the Restraint Chair and Positional Asphyxia" – Southern California Jail Manager's Association. Temecula, California; January 21, 2010.

SELECTED SPEAKING ENGAGEMENTS, continued:

73. "Excited Delirium Challenges and Best ER Practices" Excited Delirium Conference by the Canadian Institute for the Prevention of In-Custody Deaths, Inc. Niagara Falls, Canada; April 19, 2010.
74. "Excited Delirium and TASERS: What Physicians Need to Know" – Grand Rounds Scripps Encinitas Hospital. Encinitas, California; July 15, 2010.
75. "Excited Delirium and TASERS: What Physicians Need to Know" – Grand Rounds University Medical Center. Las Vegas Nevada; August 10, 2010.
76. "Review of ECD Research and Reported Cardiac Capture" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 17, 2010.
76. "The Science Behind the American Heart Association ACLS Guidelines" – Puerto Vallarta ACLS Resuscitation Conference. Puerto Vallarta, Mexico; February 18, 2011.
77. "The Science Behind the American Heart Association ACLS Guidelines" – Cabo San Lucas ACLS Resuscitation Conference. Cabo San Lucas, Mexico; March 25, 2011.
78. "ROC Cardiac Arrest Outcomes" – San Diego Resuscitation Conference. San Diego, California; April 9, 2011.
79. "Do Electronic Control Devices Kill Humans: Review of the Data" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 16, 2011.
80. "Evaluation After Choking or Strangulation" – UCSD Forensic Nursing Conference. San Diego, California; April 28, 2012.
81. "Prehospital Hypothermia for Cardiac Arrest" – Santa Clara County EMS Conference. San Jose, California; May 23, 2012.
82. "The Science Behind the American Heart Association ACLS Guidelines" – Cabo San Lucas ACLS Resuscitation Conference. Cabo San Lucas, Mexico; August 21, 2012.
83. "Acute Cerebral Accidents" – Hermosillo ACLS Resuscitation Conference. Hermosillo, Sonora, Mexico; September 11, 2012.
84. "Excited Delirium Syndrome: TASERS, Restraints, and Sudden Death" – Emergency Nurses Association Annual Conference. San Diego, California; September 15, 2012.
85. "Electronic Control Devices and the not so Shocking Truth about their Lethality" – Sudden Death, Excited Delirium and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; November 14, 2012.

SELECTED SPEAKING ENGAGEMENTS, continued:

86. “Medical Evaluation and Detection of Dementia and Delirium” – Annual Update on Behavioral Emergencies Conference. Las Vegas, Nevada, December 5, 2012.
87. “Acute Cerebral Accidents” – Puerto Vallarta Resuscitation Conference. Puerto Vallarta Mexico; January 17, 2013.
88. “Excited Delirium Syndrome: TASERS, Restraints, and Sudden Death” – San Diego County Emergency Nurses Association 911 Conference. San Diego, California; April 19, 2013.
89. “Acute Cerebral Accidents” – Cabo San Lucas Resuscitation Conference. Cabo San Lucas Mexico; April 27, 2013.
90. “Acute Myocardial Infarction” – Mazatlan Resuscitation Conference. Mazatlan Mexico; May 7, 2013.
91. “Hypothermia Post Cardiac Arrest” –Acapulco Resuscitation Conference. Acapulco, Mexico; May 28, 2013.
92. “Bath Salts and In-Custody Death”- National Sheriff’s Association. Charlotte, NC; June 25, 2013.
93. “Updates in Cardiac Arrest: The ROC Trials” – Mexico Association of Emergency Medicine Emergency Update Conference. Mexico City, Mexico; June 28, 2013.
94. “Management of Head Trauma” – Mexico Association of Emergency Medicine Emergency Update Conference. Mexico City, Mexico; June 28, 2013.
95. “Hypothermia Post Cardiac Arrest” –La Paz Resuscitation Conference. La Paz, Mexico; July 22, 2013.
96. “Management of Head Trauma” – Mexico Association of Emergency Medicine Emergency Update Conference. Monterrey, Mexico; September 26, 2013.
97. “Updates in Cardiac Arrest: The ROC Trials” – Mexico Association of Emergency Medicine Emergency Update Conference. Monterrey, Mexico; September 26, 2013.
98. “Risk Management and Minimizing Malpractice Exposure” – UCSD Department of Orthopedics Grand Rounds, San Diego, CA October 2, 2013.
99. “Decreasing Your Risk in Labor and Delivery” – UCSD 9th Annual Perinatal Symposium, San Diego, CA October 11, 2013.
100. “Excited Delirium Syndrome: TASERS, Restraints, and Sudden Death” – UCSD Department of Emergency Medicine Grand Rounds, San Diego, CA November 11, 2013.

SELECTED SPEAKING ENGAGEMENTS, continued:

101. "Excited Delirium Syndrome" – Annual Update on Behavioral Emergencies Conference. Orlando, Florida; December 12, 2013.
102. "The importance of CT on the initial evaluation of a trauma patient: ABC or AB-CT ?" – Primero Simposium Internacional BNH con UCSD Celebrado en Los Cabos. Los Cabos, Mexico; December 7, 2013.
103. "Management of Head Trauma" –Emergency Medicine Update Conference. Puerto Vallarta, Mexico; December 18, 2013.
104. "Updates in Cardiac Arrest: The ROC Trials" – Emergency Medicine Update Conference. Puerto Vallarta, Mexico; December 18, 2013.
105. "Pulmonary Embolism: Evaluation and Treatment"- 25th Annual Mexico Emergency Medicine Congress. Acapulco, Mexico; February 20, 2014.
106. "Management of Head Trauma" –Emergency Medicine Update Conference. Puerto Vallarta, Mexico; March 5, 2014.
107. "Updates in Cardiac Arrest: The ROC Trials" – Emergency Medicine Update Conference. Puerto Vallarta, Mexico; March 5, 2015.
108. "Management of Burns" –Trauma Update Conference. Puerto Vallarta, Mexico; April 3, 2014.
109. "Management of Head Trauma" –Trauma Update Conference. Puerto Vallarta, Mexico; April 3, 2014.
110. "Cuffs, Chains and Chairs" – Restraint and In-Custody Death Conference by the Institute for the Prevention of In-Custody Deaths, Inc. Las Vegas, Nevada; April 24, 2014.
111. "Management of Burns" –Trauma Update Conference. Los Cabos, Mexico; June 5, 2014.
112. "Management of Head Trauma" - Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014
113. "Management of Burns" - Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014.
114. "Updates in Cardiac Arrest: The ROC Trials" – Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014.
115. "Pulmonary Embolism: Evaluation and Treatment"- Primera Feria Annual de la Salud. Guadalajara, Mexico; July 18, 2014.
116. "Risk Management and Minimizing Malpractice Exposure" – UCSD Department of Anesthesia Pain Service Grand Rounds, San Diego, CA September 24, 2014.

117. "The ABCs of CPR" –Huatulco Resuscitation Conference. Huatulco, Mexico; October 2, 2014.
118. "Risk Management and Minimizing Malpractice Exposure" – UCSD Division of Gastroenterology Grand Rounds, San Diego, CA October 16, 2014.
119. "Identification and Treatment of Excited Delirium Syndrome" - Annual Update on Behavioral Emergencies Conference. Scottsdale, Arizona; December 11, 2014.
120. "Autopsy of an In-Custody Death" – Defense Research Institute Annual Conference, San Diego, CA January 30, 2015.
121. "TASERS: The shocking truth"- 26th Annual Mexico Emergency Medicine Congress. Mazatlan, Mexico; February 5, 2015.
122. "Resuscitation Update: CPR, Hypothermia and new devices" - 26th Annual Mexico Emergency Medicine Congress. Mazatlan, Mexico; February 5, 2015.
123. "Management of Head Trauma" - Segundo Feria Annual de la Salud. Guadalajara, Mexico; May 22, 2015.
124. "Updates in Cardiac Arrest: The ROC Trials" – Segundo Feria Annual de la Salud. Guadalajara, Mexico; May 22, 2015.
125. "Pulmonary Embolism: Evaluation and Treatment"- Segundo Feria Annual de la Salud. Guadalajara, Mexico; May 22, 2015.
126. "Resuscitation Update: CPR, Hypothermia and new devices" – Altitude and Travel Medicine Symposium. Cusco, Peru; August 21, 2015.
127. "Approaches to Stabilization, Transfer and Disposition of Tourist with Multiple Trauma – Altitude and Travel Medicine Symposium. Cusco, Peru; August 21, 2015.
128. "Risk Management and Minimizing Malpractice Exposure" – UCSD Department of Orthopedics Grand Rounds, San Diego, CA December 2, 2015.
129. "Ketamine and EMS" – Annual Update on Behavioral Emergencies Conference. Las Vegas, Nevada; December 3, 2015.
130. "Pulmonary Embolism: Evaluation and Treatment"- 27th Annual Mexico Emergency Medicine Congress. Puerto Vallarta, Mexico; February 4, 2016.
131. "The importance of CT on the initial evaluation of a trauma patient: ABC or AB-CT ?" – 27th Annual Mexico Emergency Medicine Congress. Puerto Vallarta, Mexico; February 4, 2016.

SELECTED SPEAKING ENGAGEMENTS, continued:

132. "Risk Management and Minimizing Malpractice Exposure" – UCSD Department of Dermatology Grand Rounds, San Diego, CA February 11, 2016.

APPENDIX B

Deposition Testimony

September 6, 2013

Gail Waters v City and County of Denver, et al.
U.S. District Court, District of Colorado
Case No. 12-cv-1856-MSK-BNB
Attorney: Wendy Shea
Defense: In custody death, TASER, weight force

December 3, 2013

Edwin Burris, plaintiff v Lester E. Cox Medical Centers, et al
Circuit Court of Green County, Missouri at Springfield
Case No: 1231-CV30973
Attorney: Randy Cowherd
Defense: Alleged Missed CVA

March 13, 2014

Charlene Nelson v. County of Riverside, et al
Superior Court of the State of California, County of Riverside
Case No.: RIC10011174
Attorney: Art Cunningham
Defense: In custody death, restraint asphyxia, TASER

April 10, 2014

Jason Patti v The State of Arizona, et al.
Maricopa County Superior Court
Case # CV2012-011263
Attorney: Bob Grasso
Defense: SBO from ingesting a glove

April 30, 2014

Estate of William D. Mackey, et al v Horizon Human Services, Inc, et al
Maricopa County Superior Court
Case # CV 2011-022086
Attorney : Marshall Humphrey
Defense: Choking death

July 29, 2014

Irving Marquez v. Eddy County, et al
U.S. District Court, District of New Mexico
Case #: 11-CV-838 DJS/WDS
Attorney: Jonlyn Martinez
Defense: West Nile Virus Encephalitis in custody delay in diagnosis

August 13, 2014

Rickey Burtchett v Lester E. Cox Medical Center, et al
The Circuit Court of Greene County, Missouri
Case #: 1231-CV13544

Attorney: Randy Cowherd
Defense: Delay in diagnosis of arterial occlusion

August 23, 2014
Louis DePasquale, et al v Garrett Emery, M.D.
District Court Of Utah, Third Judicial District, Salt Lake County
Case #: 130907530
Attorney: Pete Summerill
Plaintiff: Missed perforated duodenal ulcer

September 2, 2014
Estate of George Salgado, et al. v. Miami-Dade County, et al.
U.S. District Court, Southern District of Florida
Case # 12-cv-24458 King/Torres
Attorney: Oscar Marrero
Defense: In custody death, TASER, ExDS

September 30, 2014
Estate of Ronald H. Armstrong v. Pinehurst, et al.
Superior Court of North Carolina, Moore County
Case No. 1:13-CV-407
Attorney: Dan Hartzog
Defense: In custody death, TASER, Positional Asphyxia, ExDS

November 11, 2014
Brejanea Burley, et al v. County of Los Angeles, et al.
Superior Court of the State of California, County of Los Angeles, South District
Case No. TC027341
Attorney: Tim Kral
Defense: In custody death, TASER, OC Spray, Asphyxia, ExDS

March 2, 2015
Khang Le, et al v. City of El Monte, et al
Superior Court of the State of California, County of Los Angeles, South District
Case No. BC497169
Attorney: Peter Ferguson
Defense: In custody death, neck hold, positional restraint, TASER

May 8, 2015
Laura Wilbanks v Banner Health, et al
Superior Court For The State Of Alaska Fourth Judicial District At Fairbanks
Case No. 4FA-13-1917 CI
Attorney: Mike Stepovich
Plaintiff: Missed CVA

June 18, 2015
Frederick Ronald Thomas, Jr. v. City of Fullerton, et al
Superior Court of the State of California, County of San Orange
Case No. 30-2012-00581299
Attorney: Barry Hassenberg

Defense: In custody death, TASER, positional restraint

September 10, 2015

Bridget Wiseman v. City of Fullerton, et al
Superior Court of the State of California, County of San Orange
Case No. 30-2013-00643502-CU-PO-CJC
Attorney: Barry Hassenberg
Defense: Hanging at a jail

October 9, 2015

Damion Russell v. City of Los Angeles, et al
U.S. District Court, Central District of California
Case No. CV14-9433-JFW-(Ex)
Attorney: Christian Bojorquez
Defense: In custody death, positional restraint, TASER

January 13, 2016

Michelle Ernst v. Creek County Public Facilities Authority, et al
U.S District Court, Northern District of Oklahoma
Case# 14-CV-504-GKF-PJC
Attorney: Mickey Walsh
Plaintiff: Jail suicide

February 12, 2016

V.W, minor v. City of Vallejo et al
U.S. District Court, Eastern District of California, Sacramento Div
Case# 2:12-CV-01629-LKK-AC
Attorney: Sean Conley
Defense: In custody death, positional restraint, TASER, neck hold

February 23, 2016

Aimee Bevan v. Santa Fe County, et al
State of New Mexico, County of Santa Fe First Judicial Court
Case# D-101-CV-2015-00061
Attorney: Mark Komer
Defense: In custody death, heroin OD

July 29, 2016

Jeremy Leon Bordegaray v. County of Santa Barbara, et al.
U.S. District Court, Central District of California
Case No. 2:14-cv-08610-CAS-JPR
Attorney: Mary Pat Barry
Defense: Officer involved shooting and AED use

October 26, 2016

James Mayfield v. County of Sacramento, et al
U.S. District Court, Eastern District of California
Case No. 2.13-cv-2499 JAM AC PS
Attorney: Van Longyear
Defense: Jail medical care, spinal injury from suicide attempt

November 1, 2016

Donald Liess, Individually and as Successor-In-Interest to Darren Liess, et al vs. City of Los Angeles, et al

U.S. District Court, Central District of California

Case No. CV14-4374-PA-FFM

Attorney: Christian Bojorquez

Defense: In Custody Death, position restraint

November 11, 2016

Rose v. Coconino County, et al.

U.S. District Court, District of Arizona

Case No. 3:15-cv-08150-PGR

Attorney: Milt Hathaway

Defense: In Custody Death, position restraint, TASER

December 2, 2016

Gary Everett and Donald Everett v. Bristol Hospital, et al

Judicial District of Hartford at Hartford

Case No: CV 07-60553331-S

Attorney: Tim Grady

Defense: Spinal Epidural Abscess

December 16, 2016

Juan Isaac Garza v County of Los Angeles, et al.

Superior Court of the State of California, County of Los Angeles, Central District

Case No.: BC553211

Attorney: Lou Pappas

Defense: Self-induced head injury at jail

January 9, 2017

William Mears v. City of Los Angeles

U. S. District Court, Central District of California

Case No.: CV15-08441 JAK (AJWx)

Attorney: Christian Bojorguez

Defense: In custody death, taser, ExDS, restraint

January 20, 2017

Cheryl Marden v. Midland County

U. S. District Court, Eastern District of Michigan, Northern Division

Case No. 1:15-CV-14504-TLL-PTM

Attorney: Patrick Aseltyne

Defense: In custody death, restraint, spit mask

February 3, 2017

Circuit Court of Cape Girardeau County, State of Missouri

Mary Williams v St. Francis Medical Center

Case # 15CG-CC00160

Attorney : Stephen Woodley

Plaintiff: Missed CVA

April 13, 2017

Leon Howard (Boscon) v Town of Bernalillo, et al U. S. District Court, Eastern Stae of New Mexico, County of Sandoval, Thirteenth Judicial District Court
Case No. D-1329-CV-2015-01602

Attorney: Nick Autio

Defense: In custody death, meth intoxication, ExDS

April 26, 2017

Ryan v County of Los Angeles, et al
Superior Court of the State of California for the County of Los Angeles – Western District
Case No. SC120113

Attorney: David Weiss

Defense: EMS cervical spine injury

May 10, 2017

Huai Wang et al v SSM Health Care St. Louis, et al.
Circuit Court of St. Louis County, Missouri Twenty-first Judicial Circuit
Case No. 15SL-CC00725

Attorney: Joan Lockwood

Plaintiff: Delay in treatment of ACS

Trial Testimony

December 16, 2013

People of the State of California v. Jay Cicinelli
Superior Court, Orange County

Attorney: Michael Schwartz

Defense: Murder/manslaughter case, positional restraint

January 22, 2014

Gail Waters v. City and County of Denver, et al.
U.S. District Court, District of Colorado
Case No. 12-cv-1856-MSK-BNB

Attorney: Wendy Shea

Defense: In custody death, TASER, weight force

March 7, 2014

Charles Kretek, et al v. Board of Commissioners of Luna County, et al.
U.S. District Court, District of New Mexico
Case No. CIV-11-676 RB/GBW

Attorney: Jonlyn Martinez

Defense: In custody death, TASER, OC spray, weight force

April 22, 2014

Carole Krechman v County of Riverside, et al
U.S. District Court, Central District of California, Riverside County
Case# CV 10-08705

Attorney: Bruce Disenhouse

Defense In custody death, compression asphyxia

May 13, 2014

Audry Henry v. City of Los Angeles, et al
U.S. District Court, Central District of California, Western Division
Case No. CV13-03151 JAK (MRWx)
Attorney: Christian Bojorquez
Defense: In custody death, positional restraint, neck hold, TASER

August 22, 2014

Ester Katz, et al v County of Riverside, et al
Superior Court of the State of California, County of Riverside
Case #: RIC 1213947
Attorney: Arthur Cunningham
Defense: In custody death, OC spray

October 7, 2014

Estate of Marvin L. Booker, et al v. City and County of Denver, et al
U.S. District Court, District of Colorado
Case No: 11-cv-00645-RBJ-KMT
Attorney: Tom Rice
Defense: In custody death, positional restraint, TASER, neck hold

December 9, 2014

Brejanea Burley, et al v. County of Los Angeles, et al.
Superior Court of the State of California, County of Los Angeles, South District
Case No. TC027341
Attorney: Louis Pappas
Defense: In custody death, TASER, Asphyxia, ExDS

March 3, 2015

Steve Kassab v. San Diego Police Department, et al
U.S. District Court, Southern District of California
Case No. 07cv1071
Attorney: Stacy Plotkin-Wolff
Defense: Hyperthermia allegation from being in police car

October 14, 2015

Tevin Bell v. County of San Diego, et al
U.S. District Court, Southern District of California
Case No. 14cv1767-H (MDD)
Attorney: Carra Rhamy
Defense: TASER, neck hold, blunt force trauma

October 27, 2015

Donald Ivy Grand Jury Investigation
Albany County Supreme Court
Case No. 1503156
Attorney David Rossi
Expert: TASER

November 4, 2015

Frederick Ronald Thomas, Jr. v. City of Fullerton, et al 402 Hearing
Superior Court of the State of California, County of San Orange
Case No. 30-2012-00581299
Attorney: Barry Hassenberg
Defense: In custody death, TASER, positional restraint

November 4, 2016
Gladis Herrera, et al., v. City of Ontario, et al.
Central District of California
Case No. EDCV 15-1370 JGB (SPx)
Attorney: Daniel Roberts
Defense: TASER, gunshot wound to head

December 14, 2016
Donald Liess, et al vs. City of Los Angeles, et al
U.S. District Court, Central District of California
Case No. CV14-4374-PA-FFM
Attorney: Christian Bojorquez
Defense: In Custody Death, position restraint

May 2, 2017
Yolanda Erickson v City of Phoenix, et al
U.S. District Court, District of Arizona
Case No. 2:14-cv-01942
Attorney: Kathleen Weineke
Defense: In Custody Death, taser, neck hold

APPENDIX C

*Gary Michael Vilke, MD, FACEP, FAAEM
11582 Normanton Way
San Diego, California 92131
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Fee Schedule

FEE SCHEDULE

For case material review, research, report writing, deposition and trial preparation, and telephonic or in person meetings: 500.00/ hour

A retainer for 3 hours (1500.00) may be requested in advance.

For deposition and trial testimony: \$3000.00 for depositions lasting up to 4 hours. Additional deposition and trial testimony time will be billed at the hourly rate of \$750.00/hour. For depositions, a check for \$3000.00 needs to be provided prior to the start of the deposition.

TRAVEL

If travel out of county (more than 100 miles) for deposition or trial is required:

Business class airline tickets to and from to be arranged and paid for by the requesting firm/agency.

Hotel accommodations to be arranged and paid for by the requesting firm/agency.

Transportation to and from the airport in the host city will be arranged and be paid for by the requesting firm/agency.

Time for travel will be billed at the standard review rate up to 4 hours each direction. The time starts at departure from home until arrival in host city, and from departure from host city until arrival home.

If travel is within the county (less than 100 miles) for deposition or trial is required:

Time for travel will be billed at the standard review rate up to 2 hours each direction. The time starts at departure from home until arrival at the depo/trial site, and from departure until arrival home.

CANCELLATION:

A cancellation fee of \$1500.00 will be charged if a trial or deposition is cancelled with less than 48 hours notice from the agreed upon scheduled time within San Diego County, or within 96 hours outside of San Diego County.